

Rogue Community College Catalog 2025-26



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The Rogue Community College Academic Catalog contains everything you need to know about our programs and courses. In addition, you'll find helpful information about admissions and registration, student services, tuition and fees, academic requirements, and more.

Three ways to locate information

#1: Type what you are looking for in the "Catalog Search" box, located at the top left of this page.

#2: Click on "Advanced Search" to look for specific courses and/or programs.

#3: Choose from the navigation bar along the left side of the page.

Degree Planner

The Degree Planner link allows you to see, save, and/or print all the information about your program of study in a condensed, printable format. To access, simply navigate to any program and click the Degree Planner link at the top right of the page.

Create Your Personal Portfolio

The My Portfolio feature allows you to save information in your own personal folder so you can go directly to it!

1. Use left navigation bar or the search box to find what you are looking for in the catalog.
2. When you want to save a section, click the My Portfolio link at the top right of the page.
3. The next time you go to your portfolio, your saved material will be there!

Need help?

If at any point you have questions about how to navigate this catalog, just click on the Help link at the top right of the page.

The RCC Catalog is a publication of Rogue Community College.

Every effort is made to ensure accuracy at the time of publishing; however, the information contained herein is not to be regarded as an irrevocable contract between a student and the college. RCC reserves the right to change or cancel a class at any time and to alter the stated policy of the RCC Board of Education.

www.roguecc.edu

3345 Redwood Highway, Grants Pass, Oregon 97527
541-956-7500 or Oregon Telecom Relay Service, 711

President's Welcome

Welcome New and Returning RCC Students

It is my great honor to welcome you to Rogue Community College. As I enter my fourth year serving as your college president, I continue to be inspired by the passion, perseverance, and potential of our students. Whether you're just beginning your college journey or continuing toward your goals, you will find at RCC a community of faculty and staff deeply committed to your success and personal growth.

RCC's mission-to enhance the quality of life in our communities by providing accessible, exemplary educational opportunities-remains our guiding force. Our vision to be an inclusive and dynamic college that inspires, strengthens, and transforms lives has never been more relevant. Each day, I witness how this vision comes to life through the dedication of our college community and through your hard work and dreams.

One of the most exciting recent milestones for RCC is our recognition as a *Carnegie Opportunity College*. This national honor affirms our strong commitment to equitable student outcomes and our leadership in promoting opportunity and access. It is a reflection of the innovative, student-centered work happening across our campuses-and is a testament to your courage, effort, and determination.

As a community college graduate myself, I understand firsthand the transformative power of access and opportunity. RCC remains steadfast in its mission to open doors for every learner, no matter their background or circumstances. We continue to expand flexible pathways, hands-on learning, and workforce-ready programs designed to meet you where you are and move you where you want to go.

Thank you for placing trust in RCC. Your journey is important-to you, to us, and to the broader Southern Oregon region that benefits from your growth and success.

As you begin or continue your academic path, know that we are here to support and celebrate you every step of the way. On behalf of the entire RCC family, I wish you a year of discovery, resilience, and achievement. You belong here-and we're so glad you've chosen RCC.

- President Randy Weber

Strategic Plan

Mission

Rogue Community College enhances the quality of life in our communities by providing accessible, exemplary educational opportunities for student success and economic development.

Vision

Rogue Community College will be an inclusive and dynamic college that inspires, strengthens, and transforms.

Core Values

- **Integrity** drives us as an institution and individuals to demonstrate clear communication, transparency, ethics, and accountability.
- **Collaboration** promotes a communicative, agile, responsive culture that fosters vibrant, productive partnerships to benefit our students and strengthen our communities.
- **Diversity, Equity, and Inclusion** create an accessible, welcoming, respectful, and safe environment which engages all individuals, beliefs, and ideas fairly.
- **Sustainability** guides us to be responsible and thoughtful stewards of our human, economic, environmental, and cultural resources.
- **Courage** frees the institution and individuals to creatively pursue best practices supporting student success.

Wildly Important Goals

WIG 1: Equitable Access creates a welcoming and inclusive environment for all.

Objective 1: Improve community access to educational opportunities and support systems.

Objective 2: Foster greater participation of under-served populations in RCC programs.

Objective 3: Strengthen adaptable and responsive training and learning opportunities aimed at boosting student participation.

WIG 2: Student Success helps all students progress on their learning pathway.

Objective 4: Provide holistic resources and support to ensure students achieve their learning goals.

Objective 5: Employ effective student engagement strategies to increase student persistence.

Objective 6: Reduce the time and number of credits to completion of a credential.

WIG 3: Building Community strengthens and expands internal and external collaborative partnerships.

Objective 7: Expand comprehensive outreach with business and industry partners.

Objective 8: Foster advanced educational partnerships to enrich learning opportunities.

Objective 9: Enhance internal systems and communication practices for improved collaboration.

WIG 4: Institutional Excellence builds a campus culture of continuous improvement.

Objective 10: Utilize assessment and institutional data to optimize instruction, services, and operations in support of student success.

Objective 11: Increase participation in professional development that elevate teaching and learning, student success, and operational effectiveness.

Objective 12: Leverage existing, new, and emerging technologies to improve the student experience and operational efficiency.

Welcome to RCC

RCC is a regionally accredited, comprehensive, two-year public college serving Jackson and Josephine counties on three campuses:

1. Redwood Campus (Grants Pass)
2. Riverside Campus (Medford)
3. Table Rock Campus (White City)

Other learning sites include the Illinois Valley Business Entrepreneurial and Illinois Valley Learning centers in Josephine County, and the Fire Science Center in Jackson County.

Authority and Governance

The College is one of 17 community colleges in the state, each independently governed by its own local Board of Education and managed by the Department of Community Colleges and Workforce Development (CCWD) under the Higher Education Coordinating Commission (HECC) for the state of Oregon.

CCWD is granted legal authority for approval of courses and curricula through Chapter 589, Division 6 of Oregon Administrative Rules adopted by the State Board of Education under Chapter 341 of Oregon Revised Statutes.

The HECC and CCWD, in coordination with the State Board of Education, are responsible for the distribution of state aid, review and approval of new programs and courses, and governance rules for Oregon community colleges.

In addition, the Oregon Community College Association serves as the liaison between the colleges, state legislators, and partners on issues from funding to legislative policy, special studies, and reports.

Accreditation

[RCC Accreditation Information](#)

RCC has been continuously affirmed for accreditation since 1971. It is accredited by the regional authority - Northwest Commission on Colleges and Universities (NWCCU). NWCCU is recognized by and accountable to the U.S. Department of Education. NWCCU establishes the standards and processes by which public and private colleges and universities in the region are evaluated every 3 to 4 years in a 7-year cycle to ensure student learning through quality education and overall college effectiveness. Accreditation also qualifies RCC for federal grants and other funding, including financial aid for students enrolled at the College.

Americans with Disabilities Act & Section 504

RCC does not discriminate based on disability in admission to, access to, or operation of its instruction, programs, services, or activities, or in its hiring and employment practices. The college provides reasonable accommodation to facilitate the participation of individuals who experience disabilities.

Budget

RCC's [Operations & Finance Budget](#) pages can be found at the link.

Campus Crime Awareness and Security

The safety of students, faculty, staff and guests is a top priority at RCC. Safety is a cooperative effort, and it is the responsibility of each individual to assure a safe campus. RCC prepares an annual security report to comply with the Jeanne Clery Disclosure of Campus Security Policy and Crime Statistics Act. Institutions of higher education are required to distribute to all current students, employees, and applicants for enrollment or employment two types of information: descriptions of policies related to campus security and statistics concerning specific types of crimes. This information is disclosed in the annual security report published by October 1 each year. For more information regarding safety and security or in order to obtain a copy of the annual security report, contact Risk Management or visit [Risk Management's Campus Security](#) page.

Closures

If inclement weather conditions or other hazardous or emergency conditions require the closure or delayed opening of one or more campuses, announcements will be sent to students using the emergency notification system, and through postings on [RCC's Alert webpage](#) and RCC social media accounts. Information will also be shared with local radio and television stations for public announcement.

Consumer Information

All consumer information is available online at the [RCC Consumer Information](#) page.

Electronic Communication

RCC primarily communicates with students via their RCC student email. When applying for admission, an RCC student email address will be provided. Check your RCC email regularly for messages from the college.

Foundation

www.roguecc.edu/foundation | 541-956-7327

H Building, Redwood Campus

The RCC Foundation is a private, non-profit organization that accepts tax-deductible gifts and bequests, sponsors fund-raising events and makes funds available in support of students and the college.

Today, the RCC Foundation has more than \$18.5 million in assets and supports the college through scholarships and direct funding to programs.

Right to Learn

Rogue Community College (RCC) Administration recognizes all people's [Right to Learn](#). Our mission is to provide quality education for all segments of society through open access admission offering equal and fair treatment to all students who desire to learn.

To achieve these ends, promote the physical safety and emotional well-being of RCC students, and keep our campuses secure and inviting to them and their families, Rogue Community College will do the following:

Pursuant to the Family Educational Rights and Privacy Act (known as FERPA) and relevant law, RCC staff shall not disclose personal information including but not limited to any RCC student's immigration status.

In support of this, Rogue Community College will provide safe zones for students to communicate their concerns and access resources such as:

- Bilingual counselors/academic and career coaches with whom students share a common identity.
- A means to report hate incidences.
- Advocates for sexual harassment complaints.

RCC, under FERPA, approves what Directory Information is published and shall not release "non-directory" student record information unless legally compelled to do so.

RCC security personnel do not have the authority to, and therefore will not enforce federal immigration laws.

RCC Administration has the authority and responsibility to control access to college property owned, leased, rented or occupied for the purpose of RCC-related education, service or operations, and restricts the facilitation or consent to immigration code enforcement unless under court order or in the event of an imminent health or safety risk.

Students

In the 2023-24 school year, approximately 9,341 students enrolled at RCC. That number represents a full-time equivalent (FTE) of 3,601 students. For more information, visit the [RCC At-a-Glance](#) page.

Frequently Called Numbers

[RCC Directory](#)

New to RCC? Visit our [New Students](#) page.

Department	Number
Main Number	541-956-7500
Academic Advising/Career Coach	541-956-7192
Access and Disability Resources (Accommodations)	541-956-7337**
Admission (Recruitment/Campus Tours/Placement Process)	541-956-7217
Advocacy and Resource Center (ARC)	541-956-7369
Bookstore (Textbooks/Student Store)	eCampus Bookstore
Community and Workforce Training (Including Truck-CDL)	541-956-7303
Computer Labs	541-956-7424
Counseling	541-956-7443
Driver Training (High School and Adult)	541-956-7116
Employment/Human Resources (HR)	541-956-7329
English as a Second Language (ESL)	esl@roquecc.edu
Enrollment Services	541-956-7427
Facilities Management, Planning & Construction	541-956-7333
Financial Aid Advising/Cashier	FinAidAdvising@roquecc.edu 541-956-7501
Foundation (Donations/Scholarships/Giving)	541-956-7327
GED® & Pre-College Education (Formerly ABS/ABE)	541-956-7490
High School Partnerships (College Now/Early College)	541-956-7311
Library Services	541-956-7150
Marketing & Communications (Public Information Officer: Kelly Gonzales)	marketing@roquecc.edu 541-955-7525
Military Resources Center	541-956-7288
Oportunidades	541-956-7445
Payment Information	RCC's Business Office
President's Office	541-956-7001
Registration Help/Registrar	Registrar@roquecc.edu

Department	Number
Rogue Central (Information Center)	RCS@roquee.edu 541-956-7410
Room Reservation: External (Facility Use)	541-956-7061
Small Business Development Center	541-956-7494
Student Activities/Events	541-956-7098
Student Employment Services	541-956-7323
Student Records (Graduation Application)	541-956-7427
Testing Center (Proctor an Exam)	541-956-7100
Transcripts	Registrar@roquecc.edu 541-956-7427
TRIO Educational Opportunity Center	541-956-7097
Tutoring Centers	541-956-7100

** Persons with hearing impairments use Oregon Telecom Relay Service, 711.

Social Media at RCC

Stay in touch with Rogue Community College through the following social media accounts:

www.facebook.com/RogueCommunityCollege/

Facebook is a social networking site where users create profiles, upload photos and videos, send messages, and keep in touch with others.

RCC Campus App. A mobile platform for RCC students to network, learn, and keep up on campus activities. Available at the Apple Store, Google Play, or [RCC's Campus App page](#).

www.instagram.com/roquecommunitycollege/

Instagram is a mobile social media where users share photos and videos publicly or privately. Follow @roquecommunitycollege for current RCC images and videos.

WordPress Blog: roquecommunity.net
Rogue Community is a news and student stories blog built to engage with the community of RCC and beyond.

www.twitter.com/roqueCC

A social broadcasting service that allows users to communicate through short text-based posts or "tweets" of up to 280 characters. Find us @RogueCC.

www.youtube.com/RogueCCVideos

YouTube is a site for viewing, uploading, and sharing videos. Visit the RCC channel for fun and informative videos about RCC.

RCC website <http://www.roquecc.edu>.

Admissions and Registration

Get on the Path

Steps to Getting Started

Find your Path

The [RCC Career Coach](#) and [Guided Pathways](#) can help you discover how your passions and skills can best be used in the workplace - because people who do what they love, love what they do. Let us help you get on the right path from the beginning, saving you money and time.

1. [Apply for Admissions](#)

Completing an admission application is fast, free and is required for all programs. When you are done, you will receive an email with the RCC ID number that you will need during your college career. Contact recruitment@roquecc.edu for help or book an appointment to discuss your next steps. [Book an Appointment](#).

2. [Apply for Financial Aid](#)

Save your money! Spend ours. More than 3 billion dollars of federal aid goes unclaimed. * Financial assistance can make your education affordable. Complete your FAFSA/ORSSA early.

Complete your FAFSA (studentaid.gov/h/apply-for-aid/fafsa). Email TRIO-EOC for help with your FAFSA at trioeoc@roquecc.edu.

Complete your ORSAA (oregonstudentaid.gov). Email recruitment@roquecc.edu or call 541-956-7217 for help with your ORSAA.

Need to work? [Check out our campus jobs](#).

3. [Connect with Your Advisors](#)

After completing the placement process, you will meet with your advisors. Your advising team includes: An [Academic & Career Coach](#) (ACC), who will assist you with course registration and advising, updating your major, and much more. A [Financial Aid Advisor](#) will assist you in determining the cost of your education and how to pay for it including grants, loans, scholarships and jobs.

4. [Register for Classes](#)

Order books and supplies at [eCampus](#).

Admissions Policy

Students 18 years and older may be admitted to RCC. Students under the age of 18 who have graduated from high school or completed a GED® may be admitted. For enrollment under 18 years old, see "[Underage Enrollment](#)."

Questions may be directed to recruitment@rogucecc.edu.

Enrollment Limitations

The college may restrict enrollment in a class or program due to limited space, staff or equipment. Enrollment also is limited for some programs or classes due to special admission requirements such as minimum age, safety issues or criminal background.

Special Admission Programs

Some programs have application processes and additional course requirements needed:

- Addiction Studies
- Advanced Emergency Care
- Apprenticeship
- Dental Assisting
- Dental Hygiene
- Emergency Services
- Human Services
- Massage Therapy
- Medical Assistant
- Medical Assistant Bridge
- Nursing (Enrollment is limited and admission is not guaranteed.)
- Occupational Skills Training
- Paramedicine
- Phlebotomy
- Practical Nursing

See the Programs section of this catalog for specific requirements and contact information.

NOTE: Some health care programs require students to submit verification of certain immunizations and medical tests.

International Admission

RCC is authorized under federal law to enroll non-immigrant students. International Admissions is open for the 2025-26 academic year. For all international questions, please see [RCC's International Student](#) webpage.

Underage Enrollment Standards for Credit Classes

[Underage Enrollment](#)

Prospective students under the age of 18 who have not graduated from high school or completed a GED® must meet additional criteria for acceptance. The college reserves the right to approve or deny the request for enrollment by underage students.

First Term Course-Placement

[RCC's Placement Process](#)

The Placement Process is designed to enable a student with the assistance of RCC staff to determine the most appropriate class to match each student's academic skill level.

Students who plan to enroll in any course with a prerequisite or intend to pursue a degree or certificate, must participate in the placement process. Many RCC credit-courses have prerequisites for a certain level of math, reading, and writing competency. Knowing which courses are best for you is important and will save you time, money, and frustration. RCC has multiple ways for you to be placed into your first term of classes that best fit your current skills.

The Placement Process may be met based on any of the following conditions:

- An official or unofficial college transcript with successfully completed college-level reading and math classes.
- High School cumulative GPA, Senior English course grade, and highest high school math course and grade within the last two (2) years.
- SAT or ACT scores within the last five (5) years.
- GED test scores within the last five (5) years.
- Placement Assessment results from another college.
- AP (Advanced Placement) or IB (International Baccalaureate) scores.
- [Placement Assessment](#)

For more information about your placement process options, contact the recruitment@roquecc.edu.

Placement Assessment

Placement Assessment at RCC

To request a placement assessment with accommodations due to a disability, contact [Access and Disability Resources](#): by emailing accessOffice@roquecc.edu, calling 541-956-7337, or Oregon Telecom Relay Service, 711.

Transfer Credits

RCC accepts 100-level and above lower-division collegiate courses from regionally accredited colleges when they meet the following transfer credit acceptance criteria:

- Are graded C- or better.
- Apply to an RCC program.
- Have credit/contact hours, curriculum and outcomes that are equivalent to courses offered at RCC, are graded on a similar basis and taught by qualified professionals.
- Meet the above criteria or are otherwise deemed appropriate substitutions for RCC courses.

Transfer Credit Evaluation

Evaluation of transfer credit may take up to six weeks, so it is important to apply early.

- Get admitted to RCC.
- Declare a major at RCC.
- Order official transcripts from all previous colleges.
- Provide course descriptions for any course taken more than 10 years ago that will be considered toward the evaluation.
- For evaluation of military credit, order an official military transcript.
- See "[Credits earned through other programs](#)."

Registration

See the [online registration schedule](#) for priority registration times and additional information about registration options. Email Registrar@roquecc.edu for answers to questions about the registration process.

Credit students register using the online registration system at myroque.roquecc.edu.

Students should register carefully as they are liable for tuition/fees for any registered courses. Students must drop themselves online if they do not plan to attend. Only those who do not have financial holds or registration holds are eligible for priority registration.

For special registration arrangements due to a disability, contact [Access and Disability Resources](#): 541-956-7337 or Oregon Telecom Relay Service, 711.

Rogue Central

Admissions, advising, registration, cashiering and financial aid services are available at one convenient location on each campus in [Rogue Central](#).

myRogue

myRogue has many helpful tools including account history, course schedule, a link to report cards, and a link to online registration and Degree Audit. Students also receive important information via their RCC issued student email from registrar@roquecc.edu.

Logging on to myRogue

1. Visit the [RCC home page](#).
2. Select myRogue Portal.
3. Log in with RCC Microsoft student email address and password.
4. To reset password, enter your RCC student email address, click "Next" and then click the "Forgot My Password" link, and follow the directions.

Change of Registration

[Schedule changes may be made on myRogue](#).

Adding a Class

Classes may be added by registering online during registration periods through Monday of the second week of term. Students should register early before the start of the term.

NOTE: This deadline does not apply to Community and Workforce Training or other classes that may begin at irregular times during the term.

Full or waitlisted classes

Classes that are full or waitlisted require instructor permission to register. As space becomes available in a full class, based on waitlist order a student will be notified through their RCC student email that a space is available. The student will have 24 hours to login to their myRogue account and register in the class by moving their waitlist class to a current status. If the student does not register in the allotted time, they are removed from the waitlist, and the next student is notified. Students who are still waitlisted at the start of the term must contact the instructor and request permission to register in the full class. If the instructor approves the override of the class limit, the student can then register in the full class in myRogue. The deadline to register online is Monday of the second week of the term. Email Registrar@roquecc.edu if you have questions about this process.

Non-Attendance Drop

For term-length credit classes or non-term-length classes that start during the first week of the term, students must attend at least fifty percent of the class session for in-person classes or submit the first week assignment by Wednesday for web classes during the first week of the term, or they may be dropped for non-attendance from the class by the instructor.

NOTE: Drop only applies to classes students registered prior to the first day of the term.

Students unable to attend the class during the first class session should contact the instructor prior to the class meeting if they wish to avoid being dropped for non-attendance from that class. Contact information for instructors is online at the [RCC Directory](#).

A tuition refund will be applied to the accounts of students who have been administratively dropped from class(es) due to non-attendance.

NOTE: This procedure does not relieve students of the responsibility to drop from classes. Students need to officially drop or withdraw from classes that begin at irregular intervals.

Official Drop or Withdrawal from Classes

- Students may drop from a term-length class through Monday of the second week of the term until 11:59 p.m. Tuition is refunded in full (and financial aid adjusted if necessary) when a student drops from a class. There is no notation of the dropped class on the student's grade report or transcript. See the chart below for the credit class refund and withdraw deadlines for non-standard term length classes.
- Students may withdraw from classes until the Friday of the eighth week of the term (Thursday of fifth week in summer term). There is no refund when a student withdraws from a course. A grade of "W" is assigned for a withdrawn class; the "W" grade appears on a grade report and on a transcript.

NOTE: Students may drop or withdraw using internet registration in myRogue. The official withdraw date is the day a student withdraws online. Students who stop attending a class, but do not officially drop or withdraw will receive a grade for the course that will become a permanent entry on their academic records.

Credit Class Refund and Withdraw Deadlines

Class length	Last day for a refund, 100% refund, nothing on transcript	Last day to withdraw, no refund, W grade on transcript
Regular term length classes	Monday, week two of the term	Friday of week eight; summer term on Thursday of week five
One-day classes	One day prior to class meeting	First day of class
One-week classes	The day of the first class meeting	The day of the last class meeting
Two-week classes or longer	The day of the first class meeting	One day before last class meeting

Unofficial Drop or Withdrawal from Classes

Students who stop attending but do not officially drop or withdraw receive the grade they earned based on syllabus requirements. If that grade is F or NP, the instructor must enter the last date of attendance on the online grade roster, which becomes the official withdrawal date.

Cancellation of Classes

The college reserves the right to cancel any class due to extenuating circumstances such as low enrollment. Students will receive a full refund for canceled classes. Because changes do occur, students should verify their class schedules, before the term begins, at [RCC's myRogue portal](#).

Tuition and Fees

The Rogue Community College Board of Education establishes tuition and fees. Current tuition and fee rates are posted at [RCC's Business Office Tuition Rates](#) page.

Residency

Tuition

A student's residence determines the tuition he or she will pay for classes. The most up to date provisions are covered under [BP \(Board Policy\)/AP \(Administrative Policy\) 5015: Residence Determination](#); [BP/AP5020: Non-resident Tuition](#); and [BP5030: Fees](#) which superseded the information provided here. The college has three tuition schedules: in-state, border-state (in-state rate), out-of-state, and international. Documentation may be required to establish residency. Items that may be considered valid proof of residency include an Oregon driver's license, property tax bill or utility bills (dated 90 days prior to the first day of the term). Students who cannot provide any one of the appropriate documents will be charged tuition as determined by the Registrar. Students may request a reclassification to in-state residency by submitting the Request to Establish Residency Status form to the Enrollment Services department. Requests must be submitted prior to the start of the term for which reclassification is to be effective. Documentation will be required of the student in support of the reclassification request.

In-state

A student may register and pay in-state tuition if one of the following requirements is met:

- Has maintained a permanent address in Oregon for at least 90 continuous days prior to the first day of the school term.
- Is a permanent resident of Oregon but currently is stationed for military duty outside of Oregon.
- A veteran using educational assistance under either Chapter 30 (Montgomery GI Bill®-Active Duty Program) or Chapter 33 (Post-9/11 GI Bill®), Chapter 35 (Dependents' Educational Assistance) of title 38, United States Code, who lives in Oregon while attending a school located in Oregon (regardless of the student's formal State of residence) and enrolls in the school will receive resident tuition.
- Anyone using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311(b) (9)) who lives in Oregon while attending a school located in Oregon (regardless of his or her formal State of residence).
- Was considered a resident at the time of admission, has maintained continuous enrollment and is a spouse or dependent of an active military member assigned to duty out-of-state.
- Is a resident of Oregon who left the state for summer employment.

- Is a Native American or Alaska Native who graduated from an Oregon public or private high school.

Border-state

A student may register and pay border-state tuition, equivalent to the in-state tuition rate if the following requirement is met:

- Is a resident of California, Idaho, Nevada or Washington.

Out-of-state

Students who list their permanent addresses outside of Oregon, California, Idaho, Nevada or Washington must pay out-of-state tuition. This includes:

- Students who list their parents' address as outside Oregon and who are claimed as dependents by their parents on their income tax return.
- Alaska residents who wish to receive the Alaska Permanent Fund Dividend while attending RCC and must maintain their out-of-state residency status.
- Non-citizens on a visitor's visa or student visa certified by another college.

International

Students who are citizens of another country and are attending RCC on a student visa certified by RCC will pay the international tuition rate.

Payment Deadlines

Payment dates are indicated on the [Academic Calendar](#) each term. All tuition and fees must be paid in full by Friday of the second week of the term (Thursday in summer term) or an installment plan must be in place. Students are responsible for all tuition charges unless classes are dropped by drop deadline. These terms apply even when tuition payment may be promised by an outside agency.

Refer to the [Business Office Payment Information](#) page for up to date payment guidelines.

Payment Methods

It is strongly encouraged that payments be made by credit card on myRogue. Checks can be mailed to: Business Office-JO Building, Rogue Community College, 3345 Redwood Hwy, Grants Pass, Oregon 97527. The following are available methods of payment:

- Checks - Personal checks, cashier's checks and money orders are accepted for the amount of purchase only. Please make checks payable to Rogue Community College and mail to Business Office-JO Building, Rogue Community College, 3345 Redwood Hwy, Grants Pass, Oregon 97527. Print the student's name and the student ID number clearly on the face of the check. A \$25 charge is assessed on any returned check.
- Credit Card (VISA, MasterCard, Discover and American Express) - Payment is available online on [myRogue](#). RCC student username and password are required.

- Cash - U.S. funds only. Accepted in-person, see Cashiering locations section for hours.
- Agency or company payments - Students are responsible for all charges and fees. If an outside agency or company has offered to make a payment on your behalf, please contact the Business Office for current options to facilitate payment by the agency.

Payment Address and Cashiering Locations

Please help us manage our payment process by making a [credit card payment on myRogue](#) or mailing your check payment to the Redwood Campus Business Office. Should you have any payment-related questions you can email us at AR@roquecc.edu. Please direct all financial aid inquiries to your financial aid advisor.

Checks should be mailed to:

Business Office-JO Building

*Rogue Community College
3345 Redwood Highway
Grants Pass, OR 97527*

Cashiering locations - cash payments may be made in-person at the following campus locations and hours (closed for lunch from noon-1:00 p.m. and on Fridays during the summer):

- Rogue Central, Redwood Campus, Grants Pass: Monday - Friday, 8:00 a.m. to 5:00 p.m.
- Rogue Central, Table Rock Campus, White City: Monday - Friday, 8:00 a.m. to 5:00 p.m.
- Rogue Central, Riverside Campus, Medford: Monday - Friday, 8:00 a.m. to 5:00 p.m.

Visit the [Contact your Financial Advisor](#) link, for your specific Financial Aid Advisor's email based on your pathway.

Student Installment Plan

Students who have no delinquent accounts with RCC and have not defaulted on any previous payments at the college may defer payment of tuition and fees through the use of the [student installment plan](#).

Students qualify if they have an account balance of more than \$75 for credit courses or are enrolled in a short-term skills training course with tuition of \$180 or more, provide a valid Social Security number, and have a satisfactory credit history with RCC.

Students who use the installment plan must pay \$50 of the current term's charges and a \$25 non-refundable administrative fee by the payment deadline, listed on [RCC's Academic Calendar](#).

The balance is payable in the next two months in equal installments. The installment plan may be started after the payment deadline, but the two equal installments will be due by the regular tuition installment deadlines, and late fees will be assigned (see [consequences of non-payment](#)).

Students have until the payment deadline to make payment arrangements before additional fees apply.

Students who have entered into an installment plan and withdraw after the 100 percent refund period or unofficially withdraw are responsible for the balance. Although accounts may not be

delinquent when priority registration begins, only those who have paid in full may register for a future term.

Installment plan applications are available on myRogue. Request more information via email: AR@roquecc.edu.

Consequences of Non-payment

When students register for a class, they are liable for payment of the charges for that class. To remove charges, students must go online to drop the class by the refund deadline. Students are responsible for full payment of all charges by the payment due date even if the account is paid by another party or through financial aid.

Failure to pay in full or enter into an installment plan by the payment due date may result in the following fees:

- Penalty for non-payment fee - 5 percent of past-due balance; minimum of \$5.
- Late registration - After initial registration and payment deadline, \$15 plus 5 percent of tuition; after second installment deadline, \$30 plus 5 percent of tuition; after last installment deadline, \$45 plus 5 percent of tuition.

Student accounts with a balance at the end of the term will be sent to a collection agency. Students will be responsible for all collections costs and fees. Collection agencies will pursue all means of collecting the amount due including but not limited to the garnishment of wages, tax refunds or litigation.

RCC also may impose penalties on delinquent accounts. Registration may be denied or canceled, and the extension of credit, provision of services, may be withheld until such time as the indebtedness is paid in full.

Refunds

Tuition and fees refunds:

If the college cancels a class, students are entitled to a refund of tuition and fees. Financial aid is adjusted to the decreased enrollment level.

Tuition refunds are based on the date that students drop online rather than the last day class was attended. A "withdrawal" occurs when a class is not dropped within the refund deadlines as specified above. No refunds are issued for withdrawals.

Financial aid refunds:

RCC delivers your refund with BankMobile Disbursements, a technology solution, powered by BMTX, Inc. Visit this link for more information: [BankMobile Refund Choices](#).

Please refer to [RCC Financial Aid](#) for details on financial aid, and the [Business Office](#) for more information about refunds, including timing. All students must select their refund preferences at [BankMobile Refund Choices](#) in order to receive payments from RCC.

Refund Policy for Noncredit Classes:

Full payment for non-credit classes (e.g. community education, workforce training, and community sponsored events) is due at the time of registration. Community Education and Workforce Training classes must be dropped at least three working days prior to the class start date to be eligible for a full refund.

If RCC cancels a non-credit class for any reason, all paid fees will be refunded. Please be certain of your intent to complete a class prior to registration. Classes may be canceled or postponed by RCC for insufficient enrollment one working day prior to the first class session. Appeals may be made by completing the [account appeal form](#) (found on the [Community & Workforce Training](#) website) and returning it to the Continuing Education & Workforce Training Office at Redwood Campus, Building A, for committee review.

Student Record Appeals

Students who think they have documented circumstances (such as hospitalization or a death in the family) that might warrant an exception to the Drop or Withdraw deadlines may submit a Student Record Appeal to the Enrollment Services Department, available at the [Forms for Students](#) page.

Appeals must be received by the college within two years from the end of the term the student is appealing. If the student was awarded financial aid during the term and is requesting to be dropped, then the appeal must be received within the same academic school year, or 60 days from the end of spring term.

Academic Information

Academic Standing

For more information please visit [RCC's Academic Standing](#) page.

Academic difficulty results when a student is not maintaining academic standards by earning at least a 2.0 cumulative grade point average and completing 66.67% of their term attempted credits. A student whose cumulative grade point average is below 2.0, and/ or who does not complete 66.67% percent of their term attempted credits will be placed first on Academic Alert I and second on Academic Alert II, and eventually will be academically suspended if academic difficulty continues. NOTE: For the complete Academic Standing Policy, [see the Policies section of this catalog](#).

Example Student Transcript

Course	Credit hours	Grade	Grade points
Biology	3	A-	14.8
Biology Lab	1	A	4
Figure drawing	3	F	0
Mathematics	4	B-	10.8
	11 total graded credit hours		29.6 total grade points

To calculate GPA, the total grade points are divided by the total graded credit hours.

Total grade points: 29.6

divided by

Total graded credit hours: 11

Equals: 2.69 GPA

Course Grading

Program Courses

The quality of student work in most core program courses is measured by a system of grades consisting of letter grades A-F which are used in calculating grade point average. Before summer 2024, instructors could assign plus or minus grades, which did not carry a value and therefore did not affect a student's quality points and GPA. From summer 2024 onwards, plus grades will add 0.3 quality points per credit, while minus grades will deduct 0.3 quality points per credit. The exception is the A+, which will carry the same quality points as an A.

Grade	Definition	Points
A+		4.0 Points
A	(Superior)	4.0 points
A-		3.7 points
B+		3.3 points
B	(Above average)	3.0 points
B-		2.7 points
C+		2.3 points
C	(Average)	2.0 points
C-		1.7 points
D+		1.3 points
D	(Below average)	1.0 point
D-		0.7 points
F	(No credit)	0.0 points
NA	(Never Attended)	0.0 points

NOTE: A "D+", "D", "D-" or "F" grade are non-passing grades and will not satisfy prerequisite or program requirements.

Academic Success Courses

Pass ("P") or No Pass ("NP") are used for most academic success classes. A "P" grade indicates the student has earned a "C" or better.

Generally, "P" and "NP" grades may not be used for individual students in core program courses, nor are "A" through "F" grades used for students in academic success classes. An NP grade does not satisfy prerequisites.

Grade Point Average Calculation

Your grade point average (GPA) is calculated by dividing the total amount of grade points earned by the total amount of credit hours attempted. Your grade point average may range from 0.0 to 4.0.

For example:

A+ = 4 grade points

A = 4 grade points

A- = 3.7 grade points

B+ = 3.3 grade points

B = 3 grade points

B- = 2.7 grade points

C+ = 2.3 grade points

C = 2 grade points

C- = 1.7 grade points

D+ = 1.3 grade points

D = 1 grade point

D- = 0.7 grade points

F = 0 grade points

NA = 0 grade points

Pass/No Pass (P/NP) courses are not factored in the student's GPA. I (Incomplete), * (Retaken Course), CIP (grade pending), AU (Audit), and W (Withdrawals) do not receive grade points

Other Grades

- Audit (AU) is an enrollment status which allows students to take classes but not receive credit or a grade. Students who choose this option should do so by submitting the Audit Course Request form prior to the withdraw deadline. Students receiving financial aid should consult with their Financial Aid Advisor. (Financial aid will not pay for audits.)
- Pending (CIP) is used to indicate a grade has not been posted by an instructor.
- Incomplete (I) may be assigned when a student has successfully completed at least 75 percent of the coursework and a prolonged excusable absence causes inability to finish

the course by the end of the term. Faculty are not required to grant an I grade. Students are required to complete the coursework within one term in term-length classes. Otherwise, the grade is automatically changed to an F or the assigned grade as noted on the incomplete form.

- No Grade (NG) is used for non-credit Community and Workforce Training courses.
- Withdrawal (W) is assigned when a student officially withdraws from a class after the second Monday of the term, or for classes with irregular meeting dates after completing one third of the course. Students may withdraw any time until Friday of the eighth week. Grades of W are not included in GPA calculations.
- Withdrawn Administratively (WA) is granted by the Student Record Appeal Committee or the Academic Reinstatement Committee, due to documentable unforeseen, severe circumstances beyond the student's control during the term, such as a prolonged illness requiring hospitalization or the death of an immediate family member. WA does not affect GPA or Academic Standing but does count towards cumulative attempted credits for Financial Aid Satisfactory Academic Progress PACE calculations.

Last Date of Attendance

Faculty are required to report a last date of attendance when they submit a non-passing grade. Non-passing grades are F and NP. The last date of attendance is determined in this manner:

Seat Class: last date of in-person attendance.

Online Class: last date that a student submitted an assignment or test.

Retaking a Course

For courses completed at RCC only the highest grade (defined by grade points) will be counted towards a student's (GPA) calculation for classes that are retaken. All classes and grades will remain on the student's transcript, but only the higher grade will be included in the grade point average (GPA) calculation. The lower grades will have * symbol next to the grade. This applies only to grades that are included in GPA calculations, not W, WA, CIP, NG, NP, P, I or AU grades. Retaking a previously passed course is aid-eligible only once. Notify Financial Aid Advising before registering in a class passed twice so that aid can be adjusted prior to payment.

This process does not apply to courses completed at other institutions or to RCC courses in which a passing grade of C- or higher was earned. To request the exclusion of a C- or higher grade for a retaken course, please email: registrar@roquecc.edu.

Course Numbering

- **Career Technical Education (CTE)** courses are identified by the following prefixes: AH, AM, APR, BT, CIS, DA, DDM, DH, DS, ECE, EMS, ES, FRP, HC, HS, MEC, MET, MFG, MT, NRS, PRD, PRX, SRV, ST, and WLD, or by a CT suffix at the end of the course number (e.g., MTH 102CT). These courses apply to Career and Technical degrees and certificates at RCC. They are financial-aid eligible if required, or if they are an approved elective in an aid eligible program.

- **Lower Division Collegiate (LDC)** courses are numbered 100-299. These courses that are generally accepted by four-year colleges are identified with letters and numbers (e.g., MTH 211), with the exception of courses with the CTE prefixes previously listed and are generally financial-aid eligible.
- **Common Course numbering (CCN)** courses approved statewide are identified with a Z suffix at the end of the course number (e.g., WR 121Z). These courses have aligned learning outcomes to ensure seamless transfer for all students between Oregon community colleges and Oregon public universities.
- **Personal Enrichment/Community and Drivers Education Non-Credit Courses:** These are courses with numbers between 1000 to 1999 (e.g., CED 1784 or DRV1902). They are considered personal enrichment courses and are not intended for program completion or transfer. They are not financial-aid eligible.
- **Commercial Truck Driving, CNA, Workforce Training and Small Business Development Non-Credit Courses:** These are courses numbered between 3000 to 9999 (e.g. CTD 3107, WRK 3400, or SBDC9742). They are designed to upgrade the skills of workers currently employed in occupations or industries. These courses do not lead to a degree or certificate. Continuing education units (CEUs), a form of recognition given to units of training, are often given in lieu of credit and are generally not financial-aid eligible.

Credits Earned Through Other Programs

Submit documentation as outlined below.

A minimum of 12 credits toward any one-year certificate program and a minimum of 24 credits toward any two-year degree must be earned at RCC.

Transfer Credit

Submit all official transcripts and declare a major at RCC.

RCC accepts 100-level and above lower-division collegiate courses from regionally accredited colleges when they meet the following transfer credit acceptance criteria:

- Are graded C- or better.
- Apply to an RCC program.
- Have credit/contact hours, curriculum and outcomes that are equivalent to courses offered at RCC, are graded on a similar basis and taught by qualified professionals.
- Meet the above criteria or are otherwise deemed appropriate substitutions for RCC courses.

Courses from non-accredited institutions must meet the criteria listed above to be considered for transfer acceptance. Prospective students who want to transfer-in courses from non-accredited institutions must produce evidence of the above criteria to RCC department chairs or program coordinators for review and possible credit award.

College-level courses taken in countries other than the United States need to be evaluated by a member of the NACES accredited agency and then compared to the RCC transfer credit acceptance criteria. A list of current National Association of Credential Evaluation Services

(NACES) members may be found on the [NACES website](#). Students may use the NACES member of their choice for a course-by-course or comprehensive evaluation, including grades.

High School Partnerships

Earning College Credit While in High School

There has never been a better and more exciting time to explore and begin college while still in high school. Rogue Community College offers several options for Jackson and Josephine county high school students to get a jump start on a college plan and career preparation path right away. The **College Now/Dual Credit** program allows high school students to earn college credit for free in selected high school classes at the same time they are earning credit toward their high school diploma. These courses are taught at the high school by high school teachers. The teachers work with RCC academic departments, including CTE, to align the content of the high school class with the rigor of the college class. Schools may apply college credit earned to the high school diploma. **Early College** allows high school students at participating high schools to become traditional RCC students during their high school years. Early College students take RCC on campus or online courses taught by RCC instructors with the intention of completing an RCC certificate or education plan of study. High schools approve students to enroll in college courses and may grant college credit towards the student's high school diploma. Approved Early College classes are subject to be billed to the high schools at a discounted rate.

[College Now/Dual Credit](#)

[Early College](#)

Credit for Prior Learning (CPL)

Credits earned through these various programs do not count toward the minimum number of credits that the college requires to be completed at RCC toward certificate and degree requirements, nor are they an eligible basis for financial aid. Any exceptions to this policy must be approved by the appropriate department chair and RCC's Chief Academic Officer.

Credit may be awarded through these types of CPL:

- Credit by Exam (CLEP, DANTES, AP, Avant, IB, DSST, etc.)
- Challenge Exams
- Industry Certifications
- Professional Licensure
- Military Credit (ACE Credit Recommendation Service)
- Prior Experiential Learning/Prior Learning Assessments (PLA) e.g., portfolios. Portfolios must be reviewed by qualified faculty. Credit is awarded based on the faculty/content expert review of the portfolio.
- Other forms of authentic assessment to award CPL credit.

American Council on Education (ACE)

RCC only accepts ACE credit recommendations for awarding military credit. Credits awarded based on ACE credit recommendations are considered Credit for Prior Learning (CPL). See the [Military course credit](#) section.

Challenge Exam

Currently enrolled students pursuing an approved program of study at RCC are eligible to petition for a challenge exam if it is available through the academic department. Contact the department chair or coordinator for availability. Successful challenge exam results apply to program requirements at RCC but do not count toward cumulative RCC credits, GPA, or financial aid eligibility.

Advanced Placement

AP credit can be earned in high school for college-level classes based on successful completion of AP exams offered through the College Board. Submit official AP score reports from the [College Board website](#).

Advanced Placement Exam Chart			
Advanced Placement Examination	Scores	Credits	Course
Art - Drawing	3+	3	ART 131
Art - History	3	4	ART 204
Art - History	4+	8	ART 204, ART 205
Art - 2-D Art and Design	3	3	ART 115
Art - 2-D Art and Design	4+	5	ART 115, ART 199 (2)
Art - Studio - 3D	3+	3	ART 276
Biology	3	12	BI 101 / BI 101L , BI 102 / BI 102L, BI 103 / BI 103L
Biology	4+	15	BI 221Z, BI 222Z, BI 223Z
Calculus AB**	3	4	MTH 251Z
Calculus AB**	4+	8	MTH 251Z, MTH 252Z
Calculus BC**	3	8	MTH 251Z, MTH 252Z

Advanced Placement Exam Chart

Advanced Placement Examination	Scores	Credits	Course
Calculus BC**	4+	12	MTH 251Z, MTH 252Z, MTH 253Z
Chemistry	3	5	CHEM 104 / CHEM 104L
Chemistry	4+	15	CHEM 221Z / CHEM 227Z, CHEM 222Z / CHEM 228Z, CHEM 223Z / CHEM 229Z
Chinese Language and Culture	3+	12	Humanities Elective
Comparative Government and Politics	3	4	PS 201
Comparative Government and Politics	4+	8	PS 201, PS 202
Computer Science A	3	4	CS 160
Computer Science A	4+	8	CS 160, CS 161U
Computer Science Principles	3	3	Meets Computer Proficiency
Computer Science Principles	4+	4	CS 160
English Language and Composition	3+	4	WR 121Z
English Literature and Composition	3+	4	ENG 104Z
Environmental Science	3+	4	ENV 111 +1 credit non-lab Science Elective
French Language and Culture	3+	12	FR 101, FR 102, FR 103
German Language and Culture	3+	12	Humanities Elective
Government and Politics (United States)	3	4	PS 201
Government and Politics (United States)	4+	8	PS 201, PS 202
History (European)	3	4	Social Science Elective
History (European)	4+	8	Social Science Elective

Advanced Placement Exam Chart

Advanced Placement Examination	Scores	Credits	Course
History (United States)	3	4	HST 201
History (United States)	4+	8	HST 201, HST 202
History (World, Modern)	3+	8	HST 104, HST 105
Human Geography	3+	4	GEOG 110
Italian	3+	12	Humanities Elective
Japanese Language and Culture	3+	12	Humanities Elective
Latin	3+	12	Humanities Elective
Macro Economics	3+	4	ECON 202Z
Micro Economics	3+	4	ECON 201Z
Music Theory	3+	6	MUS 111, MUS 112
Physics 1: Algebra-Based	3	4	GS 104 / GS 104L
Physics 1: Algebra-Based	4+	5	PH 201 / PH 201L
Physics 2: Algebra-Based	3	4	GS 104 / GS 104L
Physics 2: Algebra-Based	4+	5	PH 202 / PH 202L
Physics C: Electricity and Magnetism	3	5	PH 202 / PH 202L
Physics C: Electricity and Magnetism	4+	5	PH 212 / PH 212L
Physics C: Mechanics	3	5	PH 201 / PH 201L
Physics C: Mechanics	4+	5	PH 211 / PH 211L
Pre-Calculus	3	4	MTH 111Z
Pre-Calculus	4+	8	MTH 111Z, MTH 112Z
Psychology	3+	4	PSY 201Z

Advanced Placement Exam Chart

Advanced Placement Examination	Scores	Credits	Course
Spanish Language and Culture	3+	12	SPAN 101, SPAN 102, SPAN 103
Spanish Literature and Culture	3+	4	Humanities Elective
Statistics	3+	4	STAT 243Z
** Credit not granted in both, only one or the other, depending on the examination taken.			

Avant STAMP 4S

Students demonstrating appropriate Spanish language proficiency can earn 4 - 20 college credits based on the Avant STAMP 4S test scores. Student should submit their Official Avant STAMP 4S scores, from the [Avant Assessment website](#).

Avant STAMP 4S Exam Chart

Avant STAMP 4S Exam	Score	Credits	Course
Spanish Writing or Spanish Speaking	3	8	SPAN 101, SPAN 102
Spanish Writing or Spanish Speaking	4	12	SPAN 101, SPAN 102, SPAN 103
Spanish Writing or Spanish Speaking	5	20	SPAN 101, SPAN 102, SPAN 103, SPAN 201, SPAN 202

International Baccalaureate (IB)

IB credit can be earned in some high schools for college-level classes upon successful completion of the IB Exam. Submit an official IB score report from ibo.org.

International Baccalaureate (IB) Examination Chart

Category	Standard Level Exam Score of 4 or higher (except where noted)		High Level Exam score of 4 or higher (except where noted)	
	Credits	Course	Credits	Course
Exam				
Art History	4	Art History Elective	n/a	n/a
Astronomy	4	GS 107 / GS 107L	n/a	n/a
Biology	5	BI 221Z	15	BI 221Z, BI 222Z, BI 223Z
Business Management	4	BA 101Z	4	BA 101Z
Chemistry	5	CHEM 221Z / CHEM 227Z	15	CHEM 221Z / CHEM 227Z, CHEM 222Z / CHEM 228Z, CHEM 223Z / CHEM 229Z
Classical Languages	4	100 level Foreign Language	12	100 level Foreign Language
Computer Science	4	CS 161U	8	CS 161U, CS 162U
Dance	3	PE Elective	6	3 credits PE Elective, 3 credits General Elective
Design Technology	4	General Elective	4	General Elective
Economics	4	ECON 201Z	8	ECON 201Z, ECON 202Z
Environmental Systems and Societies	3	ENV 111	n/a	n/a
Film	4	Humanities Elective	8	Humanities Elective
Geography	4	GEOG 110	6	GEOG 110 and 2 credits Geography Elective
Global Politics	4	Political Science Elective	8	Political Science Elective
History	4	History Elective	8	History Elective

International Baccalaureate (IB) Examination Chart

Category	Standard Level Exam Score of 4 or higher (except where noted)		High Level Exam score of 4 or higher (except where noted)	
Digital Society	4	Computer and Information Sciences Elective	8	Computer and Information Sciences Elective
Language and Literature (English)	4	WR 121Z	8	WR 121Z, ENG 104Z
Literature (English)	4	WR 121Z	8	WR 121Z, ENG 104Z
Literature and Performance	4	Humanities Elective	n/a	n/a
Literature (in language other than English)	4	100 Level Foreign Language	12	100 Level Foreign Language
Language and Literature (in language other than English)	4	100 Level Foreign Language	12	100 Level Foreign Language
Literature and Performance (other than English)	4	Humanities Elective	n/a	n/a
Language B (all languages other than English)	4	100 Level Foreign Language	12	100 Level Foreign Language
Marine Science	4	GS 108 / GS 108L	n/a	n/a
Mathematics: Applications and Interpretation	4/8	Score of 4: MTH 105Z Score of 5+: MTH 105Z, MTH 111Z	8/12	Score of 4: MTH 111Z, STAT 243Z Score of 5+: MTH 111Z, MTH 112Z, STAT 243Z
Mathematics: Analysis and Approaches	4/8	Score of 4: MTH 111Z Score of 5+: MTH 111Z, MTH 251Z	8/16	Score of 4: MTH 111Z, MTH 251Z Score of 5+: MTH 111Z, MTH 112Z, MTH 251Z, STAT 243Z
Music (Solo, Group or Composition)	3	MUS 101	7	MUS 101, MUS 210

International Baccalaureate (IB) Examination Chart

Category	Standard Level Exam Score of 4 or higher (except where noted)		High Level Exam score of 4 or higher (except where noted)	
Philosophy	4	PHL 101	8	PHL 101, PHL 102
Physics	5	PH 201 / PH 201L	15	PH 201/PH 201L, PH 202/PH 202L, PH 203/PH 203L
Psychology	4	PSY 201Z	8	PSY 201Z, PSY 202Z
Social and Cultural Anthropology	4	ANTH 110	4	ANTH 110
Sports, Exercise and Health Science	4	PE Elective	4	PE Elective
Theater	4	Theater Elective	4	Theater Elective
Visual Arts	4	Art Elective	6	ART 115, ART 131
World Religions	4	REL 201	n/a	n/a

College Level Exam Placement (CLEP)

Students can receive credit for knowledge gained outside of a formal college environment. CLEP credit can be earned upon successful completion of the CLEP exam offered through College Board. See the CLEP chart for passing scores and recognized subject areas. Submit an official CLEP score report from www.Collegeboard.org. RCC is not a CLEP testing center. See the College Board website for current testing center locations.

College Level Exam Program (CLEP) Chart

College Level Exam Program	Scores	Credits	Course
Business			
Information Systems	52	4	BA 131
Introductory Business Law	56	4	BA 226Z

College Level Exam Program (CLEP) Chart

College Level Exam Program	Scores	Credits	Course
Principles of Management	n/a	0	No equivalent
Financial Accounting	50	4	BA 211Z, BA 212
Principles of Marketing	52	4	BA 223
Composition and Literature			
American Literature	50	3	ENG 199
Analyzing and Interpreting Literature	n/a	0	No equivalent
College Composition	n/a	0	No equivalent
College Composition Modular	n/a	0	No equivalent
English Literature	n/a	0	No equivalent
Humanities	50	3	HUM 199
History and Social Science			
American Government	50	3	PS 199
History of the United States I: Early Colonialization to 1877	50	4	HST 201
History of the United States II: 1865 to the Present	50	4	HST 202
Human Growth and Development	50	4	PSY 215
Introduction to Educational Psychology	n/a	0	No equivalent
Introductory Psychology	50	8	PSY 201Z, PSY 202Z
Introductory Sociology	74	4	SOC 204Z
Principles of Macroeconomics	50	4	ECON 202Z
Principles of Microeconomics	50	4	ECON 201Z
Social Sciences and History	70	8	Social Science Elective

College Level Exam Program (CLEP) Chart

College Level Exam Program	Scores	Credits	Course
Western Civilization I: Ancient Near East to 1648	50	4	AAOT History Elective
Western Civilization II: 1648 to present	50	4	AAOT History Elective
Science and Mathematics			
Biology	50	9	Non-lab Science Elective
Calculus	50	5	MTH 251Z
Calculus	60	10	MTH 251Z, MTH 252Z
Chemistry	50	9	Non-lab Science Elective
College Algebra	50	4	MTH 111Z
College Mathematics	50	4	MTH 105Z
Natural Sciences	50*	9	Non-lab Science Elective
Precalculus	50	8	MTH 111Z, MTH 112Z
World Languages			
French Language, Level 1 Proficiency	50	8	FR 101, FR 102
French Language, Level 2 Proficiency	59	12	FR 101, FR 102, FR 103
German Language, Level 1 Proficiency	50	8	Humanities Elective
German Language, Level 2 Proficiency	60	12	Humanities Elective
Spanish Language, Level 1 Proficiency	50	8	SPAN 101, SPAN 102
Spanish Language, Level 2 Proficiency	63	12	SPAN 101, SPAN 102, SPAN 103
Spanish with Writing: Levels 1 and 2	n/a	0	No equivalent
<i>*Score of 500 or above required prior to 1999.</i>			

DANTES (DSST)

DANTES (DSST) scores will be individually reviewed by the department for possible credit award toward programs at RCC. Students submit official exam reports.

Industry Certifications Inservice Training Credit

Credit is awarded by certain academic departments for successful completion of standardized competencies and training obtained through recognized career experience in addition to college coursework. These are Apprenticeship; Early Childhood Education; Emergency Medical Services; Fire Science, and Industrial Welding.

These trainings have been determined to be identical in content and proficiency requirements to content taught in college classrooms as part of degree programs. Requirements for documenting such competencies differ slightly between departments. Students should contact the appropriate department chair or program coordinator for more information. Students pay \$10 per credit for credit awarded in this manner.

Military Course Credit

Military course credit is granted based on the guidance of the American Council on Education's "Guide to the Evaluation of Educational Experiences in the Armed Forces" and recommendations from department chairs. At least 3 credits of health and physical education are awarded for completing basic training. An Official Joint Services transcript must be submitted.

Portfolio Credit

Some departments may allow credit for prior learning based on portfolio development and review, a process that allows students to demonstrate mastery to earn college credit for existing RCC classes by submitting a written portfolio as evidence of relevant experiential learning for faculty assessment.

Portfolio credit is based only on the assessment of documents; it is not a graded process. If students must receive a letter grade, they may apply for credit through the challenge exam process or register for the actual class.

Portfolio credit is awarded to students only as part of a current degree or certificate program based on departmental approval. It is awarded course by course, not in blocks.

Honor Rolls

Rogue Community College recognizes superior academic achievement in credit classes through a President's List and a Vice President's List. To earn inclusion a student must complete all in one term at least 12 letter graded RCC credits, and meet the following criteria:

- President's List: 4.0 term GPA.
- Vice President's List: 3.5 term GPA.

Courses graded Pass/No Pass, Audit or as Withdrawn are not included in GPA calculations and do not count toward the 12 letter graded RCC credit requirement for the honor rolls. See "[GPA calculation](#)" above.

Institutional Award of Degrees and Certificates

RCC will grant two-year associate degrees, one-year certificates, less than one-year certificates and career pathway certificates, when the college recognizes that a student has completed necessary credits, regardless of whether the student applied to receive the degree or certificate. Students must be sure that a major in their academic record accurately represents the degree or certificate they are pursuing. To attend [RCC's Commencement Ceremony](#), students must submit a graduation application by mid-February.

Report Cards

End of term grades are available online by Thursday of the week following the end of each term on [RCC's myRogue](#).

Social Security Disclosure Statement

Oregon Administrative Rule 589-004-0400 authorizes RCC to ask students to provide their Social Security numbers. Numbers will be used by the college for reporting, research, recordkeeping, extending credit and collecting debts.

Numbers also will be provided by the college to the Data for Analysis (D4A), which is a group consisting of all community colleges in Oregon, the Oregon Department of Community Colleges and Workforce Development, and the Oregon Community College Association.

D4A gathers information about students and programs to meet state and federal reporting requirements. It also helps colleges plan, research and develop programs. This information helps the colleges to support the progress of students and their success in the workplace and other education programs.

D4A or the college may provide students' Social Security numbers to the following agencies or match them with records from the following systems:

- State and private universities, colleges, and vocational schools to find out how many community college students go on with their education, and to find out whether community college courses are a good basis for further education.
- The Oregon Employment Department, which gathers information, including employment and earnings, to help state and local agencies plan education and training services to help Oregon citizens get the best jobs available.
- The Oregon Department of Education to provide reports to local, state, and federal governments. The information is used to learn about education, training, and job market trends for planning, research and program improvement.
- The Oregon Department of Revenue and collection agencies, only for purposes of processing debts and only if credit is extended to the student by the college.
- The IRS for the purpose of Hope Scholarship and Lifetime Learning tax credit.

State and federal law protects the privacy of students' records. Students' Social Security numbers will be used only for the purposes listed above.

Student Directory Information

In accordance with the [Family Education Rights and Privacy Act \(FERPA\)](#), Rogue Community College considers the following to be "directory information."

1. Name, mailing address, telephone number and e-mail address.
2. Dates of enrollment.
3. Major field of study.
4. Awards, honors, certificate(s) and degree(s) conferred.
5. Participation in officially recognized college activities and sports.
6. Most recent educational agency or institution attended.
7. Academic credit information.
8. Photograph.
9. Student ID (institutional user ID).

This information may be released without the student's written consent unless the student completes a Directory Information Exemption form in the Registrar's Office. Exemption status keeps the student's name from appearing in print for press releases or for commencement or other awards and recognition by the college.

To accommodate written requests for an individual student's directory information, Student Records will forward written messages to the student whose information is requested. RCC does not contact groups of students for the purpose of solicitation. For information about this service or directory information, email registrar@roquecc.edu.

Student Educational Records

Rogue Community College follows the [Family Education Rights and Privacy Act \(FERPA\)](#) of 1974 in regard to educational records. With some exceptions, federal legislation gives students the right to inspect their educational records while attending RCC. A student who believes the contents are inaccurate, misleading or a violation of privacy or other rights has the right to file a written request with the Registrar or Designee to amend their student records.

The college normally will comply with requests to inspect records within 10 days but in no case more than 45 days from the date of request. For information regarding review of official records or to challenge the content of those records, students may contact the Registrar.

A student has the right to file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements. The name and address of the office that administers FERPA is:

Family Policy Compliance Officer
U.S. Department of Education
400 Maryland Ave., SW
Washington, DC 20202-5901

Student Right-to-Know

Graduation Rates

In compliance with the Student Right-to-Know and Campus Security Act of 1990 (Public Law 101-542), it is the policy of Rogue Community College to disclose its [completion/graduation rate and transfer rate](#) to all current and prospective students.

Tax Credits for Education

The Taxpayer Relief Act of 1997 (TRA 97) provides tax benefits for persons who are paying higher education costs for themselves and/or for members of their families. These benefits include a deduction for student loan interest, available for taxpayers who have taken loans to pay the cost of attending an eligible educational institution for themselves, their spouses, or their dependents. Taxpayers may deduct interest they pay on these student loans. The American Recovery and Reinvestment Act of 2009 provides an American Opportunity Tax Credit worth up to \$2,500 annually.

The 1098-T form and a detailed statement of charges and payments are available online at RCC's 1098T page. For questions about your 1098T form please email 1098T@roguecc.edu. For additional information and FAQs, visit the [1098T FAQ page](#).

It is strongly recommended that students consult a tax advisor for specific information about eligibility and potential benefits. RCC cannot answer tax-related questions. For additional information from the Internal Revenue Service, contact the Internal Revenue Service at 800-829-1040 or the [IRS.gov website](#).

Transcripts

Each transcript is a permanent record of all the student's academic accomplishments at RCC. It reflects all grades, including retaken courses, and degrees or certificates earned at RCC. Students may obtain a copy of their unofficial transcripts on myRogue at www.roguecc.edu/myRogue. Students also may order official transcripts from the [Enrollment Services Transcript](#) page.

Understanding College Terms

Academic Alert I

Status given to students who do not meet Good Academic Standing Standards for the first time. Refer to "Academic Alert I" in the policy section or the [RCC Academic Standing page](#).

Academic Alert II

Status given to students who do not meet Good Academic Standing for the second consecutive term. Refer to "Academic Alert II" in the policy section or the [RCC Academic Standing page](#).

Academic Calendar.

Start and end dates of each academic term. Includes important dates for tuition payment, deadlines to add, drop or withdraw from classes, holidays and registration dates, etc.

Academic Forgiveness

Academic forgiveness is a policy designed for a student with a history of non-passing grades who either wants to pursue a new degree/certificate program or, who has returned to RCC after at least a two year absence. If approved, forgiveness of past performance will exclude all credits and grades for the requested term(s) from consideration in students' cumulative GPA, and from program requirements at RCC. Refer to [Administrative Procedure 4260](#).

Academic Suspension

Status given to students who do not meet Good Academic Standing for the third or more consecutive term. Refer to "Academic Suspension" in the policy section or [RCC Academic Standing page](#).

Academic Success Classes

Credit classes are offered in basic reading, writing and math to prepare students for college-level courses. Students must go through a placement process to determine their academic level before enrolling in these classes.

Advanced Placement

Credit granted or eligibility for an advanced course based on the student having mastered the equivalent of an introductory course.

Aid Package

A combination of aid offered (possibly scholarships, grants, loans and work) determined by the Financial Aid Office per eligibility rules.

Alpha Zeta Pi

A Rogue Community College honor society recognizing academic excellence.

Articulation

An articulation agreement is created when two (or more) institutions agree that the content and difficulty level of courses offered by each institution is equivalent and that students taking the articulated course at one institution will not need to repeat it when they transfer to the other institution.

Associate Arts Transfer (AAT) and Associate Science Transfer (AST)

Two-year Major Transfer Map (MTM **CAP**) degrees that provide a clear course-taking path necessary for on-track progress towards a specific major/bachelor's degree, with a guarantee of transfer from any Oregon community college to any Oregon public university. These degrees do not guarantee that a student meets prerequisites for a particular major. The student may need additional coursework to be accepted into the major.

Associate of Arts Oregon Transfer (AAOT)

A two-year degree that fulfills all lower-division general-education requirements of a bachelor's degree. Upon admission to any public college in Oregon, students who have completed the AAOT (90 credits minimum) will qualify for junior standing. The AAOT degree does not guarantee that a student meets prerequisites for a particular major. The student may need additional coursework to be accepted into the major.

Associate of Applied Science (AAS)

A two-year program (90 credits minimum) designed to prepare students for work in a specific career technical field. A wide range of AAS programs are available at RCC.

Associate of General Studies (AGS)

A two-year program (90 credits minimum) that incorporates both lower division college transfer courses and career and technical education courses with general education coursework.

Associate of Science (AS)

A two-year program (90 credits minimum) based on signed articulation agreements with specific

public and private universities and designed for students transferring to a designated baccalaureate degree program.

Associate of Science Oregon Transfer (ASOT)

A two-year degree that fulfills all lower-division general-education requirements of a bachelor's degree. Upon admission to any public college in Oregon, students who have completed the ASOT (90 credits minimum) will qualify for junior standing. The ASOT degree does not guarantee that a student meets prerequisites for a particular major. The student may need additional coursework to be accepted into the major

Award Letter

An offer of aid (scholarships, grants, loans and work) determined by the Financial Aid Office.

Career and Technical Education (CTE)

A program of study at the secondary and postsecondary levels that is a key component of Oregon's education and workforce development system. CTE integrates technical career skill proficiencies with academic content and prepares students for the workplace, further education, training, and family and community roles. At the postsecondary (college) level, CTE helps students complete Associate of Applied Science (AAS) degrees and certificate of completion programs, preparing them for workplace entry and career success. CTE courses are identified by the following prefixes: AH, AM, APR, BT, CIS, DA, DDM, DH, DS, ECE, EMS, ES, FRP, HC, HS, MEC, MET, MFG, MT, NRS, PRD, PRX, SRV, WLD, or by a CT suffix at the end of the course number (e.g., MTH 102CT). Most of these courses apply to RCC career and technical education degrees and certificates.

Career Pathway Certificates

Career Pathway Certificates (CPCs) are 12-44 credit certificates offered in career/technical programs and are usually three or fewer terms in length. CPCs serve as the first step in a career pathway, providing employer validated skills training along with academic preparation for continuing the educational pathway. Career Pathway certificates are stackable. This means all credits earned in the CPC count toward the related one-year certificate or two-year Associate of Applied Science degree.

College Now

The College Now program allows high school students to earn college credit for free in selected high school classes at the same time they are earning credit toward their high school diploma. College Now courses are taught at the high school by high school teachers. These teachers work with RCC academic departments, including CTE, to align the content of the high school class with the rigor of the college class. Schools may apply college credit earned to the high school diploma.

College Transfer Courses

College transfer courses are courses numbered 100 or higher, and generally accepted by four-year colleges, and identified with letters and numbers (e.g. MTH 211), with the exception of courses with the career and technical prefixes listed above.

Common Course Number (CCN)

Lower-division courses that are aligned between Oregon community colleges and Oregon public universities. CCN courses have a Z designator at the end of the course number (e.g. WR 121Z). Each year new courses will be approved by the Higher Education Coordinating Commission (HECC). Courses without the Z will also transfer. Refer to the [RCC Transfer Center](#).

Cooperative Work Experience (CWE)

A capstone experience taken in final terms of a student's degree or certificate program. Students and participating businesses develop written training and evaluation plans to guide instruction. Students receive course credit for their work experience.

Core Classes

Core classes are classes which all students in a major program are required to take.

Counselor

A faculty member who is certified and/or licensed as a personal counselor and who provides personal and on-call counseling free of charge to students. They are also available for career counseling, and as advocates through the student concern and complaint process (See Administrative Procedure 5530).

Credit

A unit of academic credit that represents the hours of class time per week; granted in recognition of coursework completed.

A one credit course offered as lecture or recitation format can range between 10 to 12 class hours per term.

A one credit course offered as lecture/lab format can range between 20 to 24 class hours per term.

A one credit course offered as lab or CWE format can range between 30 to 36 class hours per term.

Cumulative Pace (cPace)

Credit completion rate calculated by dividing cumulative credits completed by cumulative credits attempted.

Curriculum

Courses necessary to complete a degree or certificate; also refers to the material covered in a course.

Declare a Major

Officially indicate a major or program of study. See "[Major](#)."

Degree Audit

An individualized report that reflects a student's academic progress toward a specified certificate or degree.

Discipline

A field of study or a category of classes such as humanities or social science. See "[Major](#)."

Dismissal

Students may be dismissed or expelled for consistently poor grades or breaking rules.

Distance Education

Classes taught over the internet.

Early College

A program where high school students attend college classes on one of the RCC campuses or online while still in high school. Courses are generally paid for by the high school or school district.

Elective

An optional rather than required class.

Fee

Money charged by a college for services provided to students. Fees are often charged for lab materials and recreational facilities.

Family Education Rights and Privacy Act (FERPA)

FERPA deals specifically with the education records of students, affording them certain rights with respect to those records. Refer to [RCC's FERPA page](#).

Financial Aid

Federal, state, college and private aid that helps students pay for college costs. Financial aid can be in the form of grants, scholarships, loans or work-study programs.

Financial Aid Satisfactory Academic Progress

Financial Aid status for students who have earned at least a RCC 2.0 cumulative GPA and at least an RCC 66.67% cumulative credit completion rate. Students must also complete their program of study within the 150% maximum time frame, calculated by taking program credit length and multiplying that by 150%. Refer to the RCC Satisfactory Academic Standing (SAP) Policy page on the RCC website.

Financial Aid Suspension

Status given to students who do not meet Satisfactory Academic Progress for the second time. Refer to Financial Aid Satisfactory Academic Progress above or [RCC Satisfactory Academic Standing \(SAP\) Policy](#) page on the RCC website.

Financial Warning

Status given to students who do not meet Satisfactory Academic Progress requirements for the first time. Refer to [Financial Aid Satisfactory Academic Progress](#) above or the [RCC Satisfactory Academic Progress \(SAP\) Policy](#) page on the RCC website.

Free Application for Federal Student Aid (FAFSA)

The annual application required for students to be considered for federal financial aid programs. Available beginning October 1 of each year at StudentAid.gov.

Freshman Experience

For first-year freshmen and/or students who have not yet decided on a major.

Full-time Student

A student taking 12 or more credits per term.

GED® and Pre-College Education

Students who need to learn basic reading, writing and math skills, prepare for GED® exams, learn English or prepare for college placement tests may receive assistance through basic skills programs.

General Education Requirements

Courses required in a variety of academic areas such as human relations, writing and math.

Good Academic Standing

Students who have at least a 2.0 cumulative GPA and a 66.67% term Pace will be considered in Good Academic Standing.

Grade Point Average (GPA)

An indicator of a student's term or overall scholastic performance calculated by dividing the total course points by the total applied credits. A = 4 points, A- = 3.7 points, B+ = 3.3 points, B = 3 points, B- = 2.7 points, C+ = 2.3 points, C = 2 points, C- = 1.7 points, D+ = 1.3 points, D = 1 point, D- = .7 points, F and NA = 0 points. (Grades not included in applied credits are AU, I, NP, P, R, W, WA, and Z.)

Grant

Award based on financial need that does not require repayment.

Honor Roll

Student list based on a GPA calculation based on completion of 12 credits or more, that are graded A-F in one term.

President's List - 4.0 term GPA.

Vice President's List - 3.5 term GPA.

Interlibrary Loan Service (ILL)

The library can obtain materials from academic and public libraries nationwide.

Incomplete

A grade of "I" requires an agreement between the instructor and the student about the completion

of the last 25 percent of course requirements. Requires minimum successful completion of 75 percent of the work required in the class prior to the end of the term. Faculty are not required to grant an incomplete.

Independent Study

An arrangement that allows a student to earn college credit through individual study, usually planned with and supervised by a faculty member.

Informational Interview

An interview to find out about a job or a career such as the training needed and responsibilities.

Internship

Paid or unpaid positions in which students work with an employer for a specified period of time to learn about a particular industry or occupation.

Loan

Financial aid that must be repaid, with interest, after a student leaves school.

Major

The subject of study in which the student chooses to specialize or graduate.

Major Transfer Map (MTM CAP)

Represent a streamlined path for students transferring from an Oregon community college to an Oregon university who know which major/bachelor's degree program they want to pursue.

Matriculation

Advancing through the educational process toward a goal, particularly related to enrolling in a college or university (e.g., upon completing the Associate of Arts Oregon Transfer degree, to matriculate to Southern Oregon University).

Occupational Outlook

A prediction of the number of job openings there will be at a certain time for specific jobs.

Open Educational Resources (OERs)

Open Educational Resources are teaching and learning materials that students may use, share and often adapt, without charge, and are made available in the form of low- or no-cost textbooks.

Oregon Student Aid Application (ORSAA)

The ORSAA is an alternative to the FAFSA for undocumented Oregon students, including students who have Deferred Action for Childhood Arrivals (DACA) status or temporary Protected Status (TPS). Available on October 1 each year at the Oregon Student Aid website.

Part-time Student

A student enrolled in 1-5 credits (less than half time); 6-8 credits (half time); 9-11 credits per term (three- quarter time).

Placement Assessment

Used to determine starting levels in reading, writing and math for new students.

Placement Process

A variety of measures used to determine starting levels for students in reading, writing and math. This process may be completed based on college transcripts, placement test results from another college, qualifying SAT/ ACT scores, a placement assessment and more. Contact recruitment@roquecc.edu for more information.

Prerequisite

Courses that must be successfully completed (grade of C- or higher or with a P grade) before proceeding in the curriculum (e.g. WR 121Z must be completed prior to WR 122Z).

Probation

Status given to students who, after returning to RCC after a suspension status, successfully pass 100% of their classes, but does not have at least a 2.0 cumulative GPA. These students may enroll in classes for the upcoming term, so long as they successfully pass 100% of their classes with a C- or better grade, they will remain in a Probation status until they have at least a 2.0 cumulative GPA. Refer to "Probation" in the policy section or [RCC Academic Standing page](#).

Probation (Aid Eligible)

Status given to students who have an approved Satisfactory Academic Progress Appeal and are financial aid eligible. Probation (Aid Eligible) status allows students to receive aid while working toward the Satisfactory Academic Progress Standing requirements.

Program Map

List of courses necessary to complete a degree or certificate.

Quarter or Term

An academic period of 11 weeks in fall, winter or spring terms, or eight weeks in summer term. Four per academic year.

Recitation

Required component for most chemistry and physics classes. Provides a forum to discuss lecture and lab activities, review materials, take quizzes, etc.

Registration

Officially enrolling in classes for an upcoming academic term.

Satisfactory Academic Progress (SAP)

Students must maintain at least a 2.0 cumulative grade point average (cGPA) and successfully complete 66.67 percent of credits attempted, earning A, B, C, D, or P grades. Unsatisfactory progress may result in being placed financial aid warning, and subsequently financial aid suspension. Financial aid recipients have additional SAP requirements to maintain eligibility.

Scholarships

Awards to students that do not have to be repaid and are based on merit or merit plus financial need.

Sequence

Set of two or three courses in one subject area usually taken in numerical order (e.g., CHEM 104, CHEM 105, CHEM 106).

Transcript

The official record of high school or college courses and grades generally required as part of college applications.

Transfer

When students apply credits earned at one institution toward the graduation requirements of a program at another institution.

Transfer Courses

Courses that are numbered 100 or higher and usually share a common description or course number at multiple institutions (such as WR 121Z) and that typically are acceptable at a four-year college or university.

Tuition

The cost of classes or credits.

Work Study

A form of financial aid in which students earn money by working part time at their college. Students apply for work study by filling out the FAFSA.

Student Resources and Services

Academic Advising

[Contact an Advisor](#)

Academic advising is provided by trained faculty and staff who can answer questions about college and educational objectives, help with program planning and class selection to meet academic goals and answer questions about transferring to other colleges. Advising is required for all new students before registering for classes.

Advising for GED® and Pre-College Education is available with faculty advisors through Zoom. To make an appointment, call 541-956-7490 and specify that you're calling for Advising, or email ged@roquecc.edu. If you email, be sure to put "Advising help" in the subject line.

Career and technical education students and those who are program-ready (have a declared major, have completed, or have a designated placement above WR 115, and MTH 60) should see their program advisors. Call the number listed for individual departments, which is included with specific program information on the Programs of Study link in this catalog.

Students enrolling in the following programs should speak with an Academic & Career Coach before the start of the first term to be connected with a faculty advisor right away:

- Apprenticeship, 541-956-7184
- Automotive Technology, 541-956-7140
- Computer Science, 541-956-7066 (Grants Pass) and 541-956-7127 (Medford)
- Dental Assistant, 541-956-9446
- Design and Digital Media, 541-956-7140 (Grants Pass) and 541-956-7127 (Medford)
- Diesel Technology, 541-956-7305
- Emergency Medical Services, 541-956-7305
- Fire Science, 541-956-7415
- Industrial Welding Technology, 541-956-7335.
- Medical Assistant, 541-956-7500
- Pharmacy Technician, 541-956-9446
- Phlebotomy, 541-956-9446
- Science, 541-956-7140 (Grants Pass) and 541-956-7127 (Medford)

Students who are undecided about their majors or who are not yet program-ready receive advising from an Academic & Career Coach until they have selected an academic pathway.

Access and Disability Resources

- Redwood Campus, Wiseman Building Tutoring Center, Rooms W 20-24
- Riverside Campus, Student Success Center Building, Room 9
- Table Rock Campus, A Building, Room 191

[Access and Disability Resources](#) provides academic support services to ensure all qualified students who experience a disability have equal access to education. Documentation to verify a disability is required to receive accommodations.

Access and Disability Resources coordinates note-taking, sign language interpreters, disability advising, conversion of class materials to alternate text format, and adaptive technology for RCC students who experience disabilities.

Students who suspect they have a disability are encouraged to make an appointment for possible services.

Acceso y Recursos para Personas con Discapacidad

- Redwood Campus, centro de tutoría del edificio Wiseman Rooms W 20-24
- Riverside Center, Student Success Center, habitación 9
- Table Rock Campus, Edificio A, habitación 191

El departamento de [Acceso y Recursos para Personas con Discapacidad](#) proporciona servicios de apoyo académico para asegurar que todos los estudiantes que califiquen para este servicio tengan igual acceso a la educación. Se requiere documentación para verificar la discapacidad y poder hacer los arreglos apropiados al tipo de discapacidad del estudiante.

Los servicios de Acceso y Recursos para Personas con Discapacidad coordinan con personas quienes toman apuntes y quienes interpretan con lenguaje de señas. También, brindan los servicios de consejeros para estudiantes con discapacidades de aprendizaje y/o con discapacidades físicas. Ofrecen conversión de material de clases al formato de texto alternativo, y tecnología adaptativa para los estudiantes de RCC con discapacidades.

El Laboratorio de Tecnología Adaptativa provee al estudiante de ayuda y evaluaciones por medio del acceso adaptativo a equipos y tecnologías.

Se sugiere que los estudiantes que supongan tienen una discapacidad, soliciten una cita para explorar la posibilidad de tener acceso a nuestros servicios.

Athletics

The Rogue Community College Ospreys compete in the South Region of the Northwest Athletic Conference (NWAC). The college currently fields teams in men's and women's soccer, as well as women's volleyball.

National data from the NCAA consistently demonstrates that student-athletes graduate at higher rates than their non-athlete peers. Employers often value the discipline, goal-setting, and teamwork skills that student-athletes develop through their participation in collegiate sports.

Athletic tuition waivers may be available at the discretion of the coaching staff.

To learn more about supporting or becoming a part of the Ospreys, please visit [The Home of the Ospreys](#).

The Northwest Athletic Conference is the governing body for intercollegiate athletics at 37 community colleges across Oregon, Washington, and British Columbia. To learn more about the NWAC and its member institutions, please visit [NWAC webpage](#).

Counseling

- Advising Center L Building, Redwood Campus
- Student Success Center Building, Riverside Center
- Student Success Center, A Building, Table Rock Campus

RCC provides [comprehensive counseling services](#) to assist students with education and career plans and with personal or social concerns. Licensed professional counselors are available and offer the following services on a limited drop-in basis and by appointment:

- Crisis intervention.
- Conflict resolution.
- Career and life planning.
- Career, job market and scholarship information.
- Early intervention for academic success.

Career Counseling and Planning

Students may receive career counseling and planning assistance. Computerized information on careers, job market information, and related training programs are also available from Counseling.

The RCC website provides useful career exploration resources. Student Employment Services provides assistance and information for resume writing, interview skills, and job search tools. Students may speak with an Academic & Career Coach for career planning and guidance.

Retention and On-call Counseling

College students often experience challenges coping with stress. Meeting with a counselor may help with the demands of college. Counselors provide professional counseling services to assist students with concerns that may create barriers to success. Students at RCC may obtain short-term, solution-focused counseling at no charge. Support groups for specific populations are also available. Please contact Counseling for more information. Some of the reasons why students seek counseling services are:

- To reduce test and math anxiety.

- To increase self-esteem and enhance personal growth.
- To gain stress management skills.
- To develop and maintain healthy relationships.
- To better integrate family, school, and work.
- To learn conflict resolution strategies.
- To become a more effective problem solver.
- To receive referrals for off-campus counseling services or other resources.
- To cope with loss or grief.

Counseling FAQs

Are services confidential?

RCC Counseling follows the ethical and legal standards of the state of Oregon, which insures confidentiality except in the following situations:

- The student provides a written request to release information.
- There is an imminent danger to the student or others.
- There is concern about child or elder abuse or neglect.
- A court orders a release of a student's records.

How do I know if I need counseling?

Rogue Community College encourages students to make an appointment with the Counseling department and talk to a Counselor who can help a student decide if counseling is needed. The following questions may be helpful to consider:

- Do you have intense feelings of depression?
- Do you experience feelings of anxiety or panic?
- Do you have difficulty concentrating on assignments in class?
- Do you feel that your usual coping strategies are not working?
- Do you recognize a pattern of behavior that creates personal and academic problems?

Will counselor services become part of my academic record?

Counselor contact and files are protected by confidentiality regulations and are not part of a student's academic record.

Who are the counselors?

For counselor names, phone numbers and locations visit the [Meet the Counselors](#) page on the RCC website.

What other services are offered?

- Assistance with grade appeals.
- Conflict mediation.
- Student concern and complaint support.
- Substance abuse referrals.
- Title IX reporting support.

Enrollment Services

- Redwood Campus, Wiseman Loft 541-956-7427
- Table Rock Campus, A Building, 541-956-7427

[Enrollment Services](#) is responsible for Student Records and Registrar office functions, such as enrollment and degree verifications, transcripts, grades, degree audits, transfer and military credit evaluations, graduation, conferring degree and certificates, providing myRogue portal support, answering registration questions, and family education rights and privacy act (FERPA) compliance.

Financial Aid

Visit RCC's [Applying for Financial Aid](#) page for information about the financial aid application process.

Financial assistance for educational purposes comes from federal, state, institutional and private sources. Types of financial aid include grants, part-time employment, scholarships and loans.

Visit [RCC's Financial Aid page](#), email Financial Aid Advising at FinAidAdvising@roquecc.edu, or stop by Rogue Central at these locations:

- Redwood Campus (Grants Pass) - Welcome Center
- Riverside Center (Medford) - HEC-102
- Table Rock Campus (White City) - Building A, Rm 187

Contact the Financial Aid Office by mail: 3345 Redwood Hwy., Grants Pass, OR 97527 or by email: FinAidAdvising@roquecc.edu.

Watch your RCC Student Email for award letters, requests for information, and other information about your financial aid.

Eligibility

Generally, students may participate in federal student financial aid programs if they are:

- U.S. citizens or eligible non-citizens.
- Have a high school diploma (not "extended") or a recognized equivalent (e.g. GED®).

- Admitted to the college.
- Enrolled in and working toward the completion of an aid-eligible certificate or degree program (see RCC's [Satisfactory Academic Progress policy](#)).
- Not in default or do not owe a repayment of federal financial aid.
- Can demonstrate applicable need for financial assistance.

Eligibility for state aid generally follows federal rules, except for undocumented residents who may apply for state grants with an [Oregon Student Aid Application \(ORSAA\)](#).

Eligibility requirements differ for various types of aid, and awards may also be limited to the availability of resources.

How to Apply

1. Complete one annual [Free Application for Federal Student Aid](#) (FAFSA or Renewal FAFSA) for the academic year. Online applications are available at [fafsa.gov](#). The RCC federal school code is #010071. (Undocumented Oregon residents may [complete an ORSAA](#) in lieu of the FAFSA for state aid.)
2. RCC recommends submitting an annual FAFSA on or as soon as possible after October 1 preceding the school year. Applications completed at least six weeks before summer, fall and winter terms (four weeks for spring) will receive priority processing. If your FAFSA is federally processed after you are no longer eligibly enrolled, you won't qualify for any financial aid for that academic year. If enrolled at RCC when your FAFSA is federally processed and it's selected for verification, all required documents must be submitted to RCC FinAid one week prior to the end of your enrolled term to be considered for a Financial Aid Award Offer.
3. Complete and return any requested documents right away. Applicants will be notified of financial aid eligibility per an official Financial Aid Award Offer, both issued by RCC in good faith and based on information available at the time. Recipients must review and accept the Fin Aid Rights and Responsibilities which includes policies such as Satisfactory Academic Progress and Return of Title IV prior to accessing their award letter.
4. Students interested in part-time work and/or student loan options may apply once the Financial Aid Award Offer is issued and prior to term application deadlines. The loan application process opens in June prior to the start of the academic year. More information about these programs and application deadlines is available from Financial Aid Advising and on the RCC website on the [Financial Aid webpage](#).

Where's the Aid?

"Disbursement" is the process where your financial aid funds are applied to your student account to pay your tuition, fees, and other authorized charges. The disbursement process generally begins the 2nd Wednesday of each term. If your financial aid exceeds your account balance, a refund will be processed by the Business Office beginning the second Friday of each term with BankMobile Disbursements, a technology solution, powered by BMTX, Inc. Select your

preferences at the [BankMobile Disbursements Refund Choices](#) website to avoid delays to your refund.

Return of Title IV Funds Policy

In the event you drop all your classes (official withdrawal), stop attending your classes (unofficial withdrawal), or receive all F grades, RCC must calculate how much aid was unearned and you may owe a repayment of your financial aid award offer. The RCC Financial Aid office will contact you with information about the amount you may owe. You are responsible for arranging repayment with the RCC Business Office and/or your federal loan servicer (if applicable). Repayments and overdue account balances may make you ineligible for enrollment and future financial aid until they are resolved.

How to Get and Keep Financial Aid

- Be admitted to RCC and declare an aid-eligible major.
- Enroll in courses that satisfy graduation requirements for your major(s).
- Attend classes.
- Maintain satisfactory academic progress (SAP) for financial aid recipients. Any time you earn at least an associate degree, future financial aid access will be determined through a Credit Extension Appeal process.

Aid will be adjusted each term to match your aid-eligible enrollment level as of the drop deadline.

RCC defines term enrollment levels as follows:

- Full-time, 12 or more aid-eligible credits.
- Three-quarter-time, 9-11 aid-eligible credits.
- Half-time, 6-8 aid-eligible credits.
- Less-than-half-time, 1-5 aid-eligible credits.

Awards made after the drop deadline will be based on actual aid-eligible enrollment. Awards generally are not adjusted after eligible payment except in the case of no attendance, a complete withdraw through 60 percent of the term, or documented institutional error.

Satisfactory Academic Progress Requirements

To qualify for or maintain financial aid eligibility, a student must be making satisfactory academic progress for financial aid toward an aid-eligible program.

For more information, see the [RCC Financial Aid Satisfactory Academic Progress](#) policy.

Dual Enrollment (Degree Partnership Program or DPP)

If concurrently enrolled in program credits at RCC and another institution, RCC may be able to serve as the home institution and base financial aid on your combined credit load. For consideration, submit a DPP Form at the beginning of the term. Forms are available at [RCC's Financial Aid Forms](#) page.

Rogue Community College reserves the right to deny such a request if, for example, it is submitted late, the student does not maintain minimum credits, the credits are not applicable to the RCC program of study, or prior-term grades were not submitted or reflect a lack of successful completion.

Types of Financial Aid

The amount and availability of financial aid and eligibility criteria may vary with each program. The following list provides general information about available student aid programs:

1. Grants and scholarships are awards that generally do not require repayment.
 - Federal Pell Grants of up to 150 percent of \$7,395 annually are disbursed for up to four quarters. Lifetime maximum is 18 full-time equivalent quarters.
 - Iraq and Afghanistan Service grants of up to maximum Pell, less up to 7.3 percent may be available in lieu of a Federal Pell grant to eligible dependents of those who become totally and permanently disabled or died as a result of qualified service.
 - The Office of Student Access and Completion (OSAC) helps Oregon students pursue their college and career goals. OSAC offers scholarships and grants for students, including the Oregon Opportunity Grant and Oregon Promise Grant. They oversee the Oregon Student Aid Application for DACA students and undocumented students. For additional information, go to www.oregonstudentaid.gov.
 - Federal Supplemental Educational Opportunity Grants (FSEOGs) are worth up to \$100 per term and awarded to early applicants who attend at least half-time and who demonstrate high financial need. Funding is limited; submit the FAFSA early.
 - The [RCC Foundation](#) provides numerous scholarship opportunities. In addition, RCC maintains an online list of scholarships made possible by various organizations. Amounts, eligibility, and application deadlines vary. Peak application season is mid-fall through early March, but some opportunities exist year-round. Go to the [RCC Foundation's Scholarship](#) page for more information.

NOTE: RCC does not participate in the federal TEACH grant.

2. Part-time student work programs administered through [RCC Student Employment Services](#).
 - Redwood Campus (Grants Pass, Wiseman Building, 541-956-7091)
 - Table Rock Campus (White City, Building A, 541-956-7091)

The Federal Work Study (FWS) program provides jobs for students who maintain at least half-time enrollment and demonstrate financial need. Once hired, students complete employment paperwork with Student Employment Services. An award of up to \$1,500 per term is added to the Award Letter. Awards are subject to the availability of funds. Eligibility does not guarantee a job. Due to limited funding, RCC reserves the right to convert FWS employment to the RCC institutional Learn and Earn program.

For information about other student employment opportunities, see Student Employment Services.

3. Federal Direct Loans (FDL) represent student debt that must be repaid with fees and interest. At least half-time, aid-eligible program enrollment is required. To monitor your student loan portfolio, visit the [Federal Student Aid](#) website, log in with your FSA ID and use your Dashboard.

RCC offers subsidized and unsubsidized Federal Direct Loans (DL).

- Subsidized DL eligibility is based on budgetary need and is awarded up to annual maximums based on dependency status and grade level. Interest is charged only after the borrower is no longer enrolled at least half-time.
- Unsubsidized DL eligibility is not based on financial need. Aid can be awarded up to the lesser of annual maximums based on dependency status and grade level or budgetary need (cost of attendance less aid and resources). Interest is charged to the borrower from the date of disbursement and may be paid quarterly, upon request, to avoid capitalization.

Rogue Community College accepts an annual FDL application after an Award Letter or Eligibility Notification has been issued and before the term's application deadline. The deadline is published on the Loan Request/Revision Form found on [RCC's Financial Aid Forms](#) page.

An application includes online and workshop-based loan-entrance counseling for first-time borrowers, a loan request form and an active master promissory note, which must be on file with the U.S. Department of Education. Borrowers may reduce or cancel a loan up to 14 days after disbursement or pre-pay anytime without penalty. Per HEA, sec. 479 (a)(c), 34CFR 685.301 (a)(g), RCC has the right to refuse or limit origination on a case-by-case basis.

4. Students who need more financial aid than RCC determines they are eligible for can pursue scholarship opportunities. Alternative educational loans may be available after all federal aid is exhausted, but these loans come at a higher cost, often require a co-signer to qualify and are not federally regulated. Consumers should carefully review terms and conditions. For more information, contact Financial Aid Advising. RCC has the right to refuse or limit origination.

NOTE: RCC does not participate in federal PLUS or Perkins loan programs.

If annual financial aid was limited by a student's estimated cost of attendance, and the student's program of study requires a professional credential prior to graduation, RCC may be able to add this one-time cost in the student's budget, which may result in additional loan eligibility.

To apply, submit a [Budget Revision Request](#) to your Financial Aid Advisor along with all requested supporting documentation.

Students who have disability-related or other significant education-related, out-of-pocket expenses may submit a Budget Revision Request, with documentation, to have the cost of attendance adjusted.

Tuition Awards

Active Duty Members Tuition Awards

- **National Guard/Selected Reserves Tuition Assistance (through the [ArmyIgnitED website](#))**

The Tuition Assistance (TA) program provides financial assistance for voluntary off-duty education programs in support of a soldier's professional and personal self-development goals. TA is available for courses offered in the classroom or by distance learning and is part of an approved academic degree or certificate program. The courses must be offered by schools registered in ArmyIgnitED, are accredited by accrediting agencies that are recognized by the U.S. Department of Education and are signatories to the current Department of Defense Memorandum of Understanding (DOD MOU).

All eligible soldiers will request TA through ArmyIgnitED. You may contact Ann Browning at 503-584-3434, or ann.browning@us.army.mil.

- [Oregon National Guard State Tuition Assistance \(ONGSTA\)](#)

ONGSTA tuition assistance is offered through Higher Education Coordinating Commission (HECC) for the state of Oregon. Eligible Oregon National Guard members can use the Oregon National Guard State Tuition Assistance (ONGSTA) for undergraduate degree and certificate programs at Oregon [community colleges](#), [public universities](#), [Oregon Health and Science University \(OHSU\)](#), and eligible post-secondary private institutions. The program will provide funding for in-state residency tuition rates for Oregon's community colleges (up to 90 quarter credits), public universities, and OHSU (up to 180 quarter credits). For eligible private post-secondary institutions (up to 180 quarter credits or 120 semester credits), tuition will fund up to the average base in-state resident tuition rate of the seven Oregon public universities.

- **Dependents of Fallen Oregon Service Members.**

To honor military service to our country, RCC will grant tuition for up to 135 credits to dependents of an Oregon resident soldier who became totally (100 percent) and permanently disabled in connection with active military service if those dependents are not covered by financial aid, Veterans education benefits, or other funding source.

More information is available from RCC Military Coordinators. The DFOSM Tuition Award form is available on the [RCC Military Services Forms](#) page.

Displaced Worker Tuition Award

Available to residents of RCC district who has been terminated or received notice of termination as a result of a plant closure or lay off within the district and within the last calendar year. The tuition award waives up to 6 credits of tuition when students register for at least 12 credits in their first term of enrollment at RCC. More information is available from RCC Enrollment Services office. The Displaced Worker Tuition Award form is available on the [Forms for Students](#) page.

Lifelong Learner Tuition Award

Senior tuition discount available to Oregon residents, ages 62 years and older who audit up to 8 credits of eligible classes per term. Students using the lifelong learner tuition discount do not receive credit for the classes and do not pay tuition for up to 8 credits, but are responsible for course fees, books, and supplies. Only lower-division collegiate classes (numbered 100 level or higher) are eligible for the tuition discount. Career-technical courses with the following course prefixes are not eligible for the tuition discount: AH, AM, APR, BT, CPL, DA, DS, ECE, EET, EMS, ES, FRP, HC, HS, MET, MFG, MT, NRS, PN, PRX, SRV, and WLD. More information is available from [RCC Admission and Recruitment](#) office.

Financial Literacy

Rogue Community College has contracted for student loan default prevention assistance and financial literacy information for our students, as follows: i3's "IonTuition" platform, specializing in helping student loan borrowers navigate repayment as well as providing financial literacy resources to the college community. For more information borrowers can call 855-456-2656 (toll-free) or visit the [IonTuition FAQ](#) page.

Graduation

Graduates are formally recognized at commencement ceremonies each June. Students in degree or certificate programs must submit an application for graduation two terms prior to anticipated completion. To participate in the June commencement ceremony, submit applications by mid-February. Graduation applications are available online at the [Enrollment Services Forms for Students](#) page.

Students who completed their programs at the end of an academic term during the year prior to commencement and those who will complete requirements during the summer term after commencement are invited to participate in the ceremony. Graduation with honors is based on a cumulative GPA of 3.5 or higher computed through the end of winter term. Students who meet this criteria may wear an honor cord in recognition of academic achievement.

Degrees and certificates will be mailed to eligible graduates approximately six to eight weeks after final grades are available for verification. Diplomas will be mailed to students' addresses on file with the college.

For more information, please visit [RCC's Commencement](#) page.

Graduation Requirements

To receive a state-approved degree or certificate from Rogue Community College, students must successfully complete the appropriate coursework with a minimum of "C-" or "pass" and meet the following standards:

- General Education Requirements (applies to degrees, certificates and career pathways certificates).
- Fulfill requirements listed on a program map. The college may elect any set of catalog requirements for a student to complete from the year a student begins a program through the current year.
- Students must have a minimum cumulative GPA of 2.0 at the time the Associate of Arts Transfer, Associate of Arts Oregon Transfer, Associate of Science Transfer or Associate of Science Oregon Transfer degree is awarded.
- Students must have a 2.0 GPA based on the RCC courses completed toward their Associate of Science or Associate of Applied Science degree or certificate.

Time Limit for Program Completion

There is no time limit to complete a certificate or degree program as long as it has not been terminated or suspended, and the required program-specific courses are still offered at RCC. The college may elect any set of catalog requirements to complete from the year a student begins a program through the current year. Degree and certificate awards are dependent on program availability at the time of completion. Requirements for many programs are subject to change

each year. If students have had a gap in enrollment of more than four consecutive terms, consult an academic and career coach about available catalog year options.

RCC has the right to terminate, suspend or reinstate its academic programs at any time. In the event a program is terminated or suspended, declared majors making significant progress each term in that academic year will be identified and formally advised of the program's status. RCC will then assist those students in completing requirements whenever possible as part of a formal teach out plan. Students who do not comply with the requirements of the plan may forfeit their rights to complete the program. Should that happen, students will be advised about other program opportunities that exist should they wish to choose another major.

Graduation Residency Requirement

Students must earn a minimum of 24 credits toward the degree at RCC to earn a two-year degree, a minimum of 12 credits toward a certificate at RCC to earn a one-year certificate, or at least 25 percent of total credits toward a less than one-year certificate or a career pathway certificate. The remainder of credits required to graduate may be transferred from an accredited institution or earned through credits for prior learning.

Latino Services

Latino Outreach and Recruitment

RCC Latino Outreach & Recruitment provides additional support for prospective and current Latinx students. Staff support students with the enrollment process, transitioning into college and throughout their college experience.

Abriendo Puertas (Opening Doors)

Abriendo Puertas is a nonprofit one-day educational conference designed to assist Latino high school juniors and seniors from Jackson and Josephine counties. The purpose of this conference is to motivate youth on ways to overcome barriers, realize the dream of going to college and become their own success story. The conference provides relevant information about postsecondary education through encouraging speeches from RCC staff, community members and current RCC students.

Helping Oregon Latinos Advance (HOLA) Summer Bridge Program

www.roguecc.edu/HOLA

The [HOLA Summer Bridge Program](#) is an annual, multi-day event hosted in September designed to help Latinx students transition into Rogue Community College. This program is intended to orient new Latinx students to college, helping them research pathways, identifying ways to pay for college, and learning strategies to be successful college students.

Southern Oregon Latino Scholarship Fund

The [Southern Oregon Latino Scholarship](#) is open to students from Josephine, Jackson and Klamath Counties. This scholarship provides opportunities for Latinx students living in the Southern Oregon region to complete their post-high school career/degree goals. This scholarship's primary aim is to build leadership in our region's communities.

Servicios Latinos

Latino Outreach and Recruitment

RCC Latino Outreach and Recruitment ofrece ayuda adicional para los actuales y futuros estudiantes Latinx. El personal de RCC ayudara a estudiantes con el proceso de inscripción, y la transición al colegio.

Abriendo Puertas

Abriendo Puertas, presentará por un día solamente, una conferencia educativa para ayudar en los condados a estudiantes latinos de los grados 11 y 12. Esta conferencia tiene información relevante sobre la educación post secundaria y otros recursos valiosos para lograr el éxito en la Universidad y educación más avanzada.

Ayudando a Los Latinx de Oregon a Progresar (HOLA) Programa de Verano

El programa [HOLA Summer Bridge](#) es un evento anual GRATUITO diseñado para ayudar a los estudiantes Latinx a ingresar en Rogue Community College. El objetivo de este programa es ayudar a aumentar la preparación universitaria. La clase de una semana incluye Aprender a ser un estudiante universitario, investigar las especializaciones y carreras de la universidad / colegio, y identificar cómo conseguir dinero gratis para su educación.

Beca para Latinos del Sur de Oregon

La [Beca para Latinos del Sur de Oregon](#) está abierta a estudiantes de los condados de Josephine, Jackson y Klamath. Esta beca brinda oportunidades para que los estudiantes latinos que viven en la región del sur de Oregon completen sus metas de carrera/título después de graduarse de la escuela secundaria. El objetivo principal de esta beca es desarrollar el liderazgo en las comunidades de nuestra región.

Military Services

RCC's Military Services Mission Statement: Rogue Community College (RCC) Military Services provides a safe and professional environment for our veterans, dependents, families, active-duty members, college community, and external partners by assisting students to achieve their educational and career goals. The staff seeks to guide, mentor, and advise Military Students as they navigate higher education, select a career goal, complete college, and move into a professional career.

[Military Services](#) are available to RCC students in Jackson and Josephine counties.

Transcripts

Military Students receiving GI Bill® benefits while attending RCC are required to obtain official transcripts, military transcripts and all previously attended colleges, universities and technical schools. Military Students submitting transcripts will receive priority evaluation in an effort to not duplicate courses.

Send official transcripts to:
Rogue Community College
3345 Redwood Hwy
Grants Pass, OR 97527

Getting started at RCC

For information about starting at RCC and obtaining Veterans Educational Benefits, visit the Military Services page, [Getting Started as a GI Bill® Student](#). The website will give you step by step instructions. If you have questions on how to get started at RCC, please contact our Military Coordinator on the Redwood or Table Rock campuses.

RCC offers military students assistance with the GI Bill® application process, priority registration, Boots to Books Orientation training, a military students college success class, campus Military Resource Centers (MRC), and VA Work-Study opportunities. Our Military Coordinators will help you make the transition from service member (and dependent) to a successful RCC student and graduate.

Apply for Your Veterans Benefits

Click the link to apply for your [Veterans Educational Benefits](#).

When you receive your Certificate of Eligibility (CofE), please see a Military Coordinator who will complete your Enrollment Certification Form 1999 and forward it to the VA for processing. Military Coordinators at RCC are unable to determine a student's eligibility for benefits. GI Bill® students are welcome to access Military Coordinators prior to receiving their CofE or Enrollment Certification (Form 1999) for planning purposes.

Boots to Books GI Bill® Military Student Orientation

Military Services at RCC assists GI Bill® students who are utilizing their educational benefits to attend college. The Boots to Books orientation for new GI Bill® students is 30 minutes and mandatory when beginning at RCC. You will learn how to access benefits specific to your chapter, how to navigate the college systems, and find resources to complement your college experience. Visit the Military Resource Center (MRC) to sign up.

CG100V College Success for Student Veterans

Rogue Community College's (RCC) CG100V (Student Veterans' College Success & Survival) class for student veterans provides straightforward guidance for GI Bill® students, veterans, and active duty members looking to earn a degree.

CG100V is a term-long, two-credit class. This course is tuition and fee free for all GI Bill® student, veterans, and active-duty members. Topics include:

- The differences between military and college culture.
- Developing effective, efficient study habits.
- Career identification and degree planning.
- Managing finances and maximizing benefits.
- Cultivating the skills employers are seeking.

Military Resource Centers (MRC)

- Redwood Campus - Student Center Building, 541-956-7289
- Table Rock Campus - A Building, Room 150, 541-956-7289

MRC Mission Statement

At Rogue Community College our Military Resource Centers (MRC) are committed to assisting active military students, veterans, dependents and spouses to transition successfully from the military environment to campus life as they learn to navigate through the education process and progress toward completing their academic degree. Assistance includes:

- Financial aid and disability services.
- GI Bill® application.
- Peer-to-peer support.
- Campus and RCC website navigation.
- Scholarship applications.

MRCs offer active military students, veterans, dependents and spouses, a collaborative and cooperative environment for every branch and era of service.

Priority Registration for Gi Bill® Students, Active Duty Members, and Veterans

GI Bill® students are given a one-day priority registration for courses at RCC. RCC proudly complies with House Bill 2565, offering eligible student veterans and current military service member's (including spouses & dependents) priority registration for each term.

Veterans Access, Choice and Accountability Policy

FEDERAL LAWS REQUIRING RESIDENT TUITION

Section 702 of the Veterans Access, Choice, and Accountability Act of 2014 [effective July 1, 2015] was codified in 38 U.S.C. 3679(c). In 2016, Congress passed Public Law 114-315 [effective July 1, 2017], which modified 38 U.S.C. 3679(c). In 2018, Congress passed Public Law 115-251 [effective April 1, 2019], which further amended 38 U.S.C. 3679(c). In 2020, Congress passed Public Law 116-315 [effective June 21, 2021], which further amended 38 U.S.C. 3679(c). The following policy includes the provisions of 38 U.S.C. 3679(c), as amended.

The following individuals shall be charged the in-state rate, or otherwise considered a resident, for tuition and fees purposes:

- A Veteran using educational assistance under either Chapter 30 (Montgomery G.I. Bill® - Active Duty Program) or Chapter 33 (Post-9/11 G.I. Bill®), of title 38, United States Code, who lives in the state of Oregon while attending Rogue Community College (regardless of his/her formal state of residence).
- Anyone using transferred Post-9/11 GI Bill® benefits (38 U.S.C. § 3319) who lives in the state of Oregon while attending Rogue Community College (regardless of his/her formal state of residence).
- Anyone using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311(b)(9)) who lives in the state of Oregon while attending Rogue Community College (regardless of his/her formal state of residence).
- Anyone using educational assistance under Chapter 31, Veteran Readiness and Employment (VR&E), who lives in the state of Oregon while attending Rogue Community College (regardless of his/her formal state of residence).
- Anyone using educational assistance under Chapter 35 (Dependents' Educational Assistance GI Bill®) who lives in the state of Oregon while attending Rogue Community College (regardless of his/her formal state of residence).
- Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at Rogue Community College.
- Title 38 United States Code Section 3679(e) School Compliance Form As part of the Veterans Benefits and Transition Act of 2018, section 3679 of title 38, United States Code was amended, and educational institution will be required to sign this compliance form to confirm your compliance with the requirements as outlined. Effective August 1, 2019, the VA shall disapprove a course of education provided by an educational institution that has in effect a policy that is inconsistent with the areas below:

NOTE: A Covered Individual is any individual who is entitled to educational assistance under Chapter 31, Vocational Rehabilitation and Employment, or Chapter 33, Post-9/11 GI Bill® benefits.

Our policy must permit any covered individual to attend or participate in the course of education during the period beginning on the date on which the individual provides to the educational institution a certificate of eligibility for entitlement to educational assistance under chapter 31 or 33 (a "certificate of eligibility" can also include a "Statement of Benefits" obtained from the Department of Veterans Affairs' (VA) website - eBenefits, or a VAF 28-1905 form for chapter 31 authorization purposes) and ending on the earlier of the following dates: 1. The date on which payment from VA is made to the institution. 2. 90 days after the date the institution certified tuition and fees following the receipt of the certificate of eligibility. • Your policy must ensure that your educational institution will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any covered individual because of the individual's inability to meet his or her financial obligations to the institution due to the delayed

disbursement funding from VA under chapter 31 or 33. Your signature on this document attests that your facility currently complies with the requirements of 38 USC 3679(e), or will comply by the effective date of August 1, 2019.

- [Federal and State Laws Protect Military Students on Orders](#): In 2010, the Department of Education published regulations implementing the Higher Education Opportunity Act of 2008. The regulation, 34 Code of Federal Regulations (C.F.R) section 668.18, went into effect July 1, 2010. The law is codified under [20 United States Code \(U.S.C.\)](#) Section 1091c. The law and regulations accord the post-secondary education student whose education was interrupted by voluntary or involuntary military service the right to readmission to the educational program. These requirements apply to any educational institution that participates in Title IV [Federal Student Financial Aid Programs](#), including Pell Grants, Stafford Loans, and the Federal Work-Study Program.
- The GI Bill® is the U.S. Department of Veterans Affairs (VA) registered trademark. More information about education benefits offered by the VA is available at the official [Federal GI Bill® website](#).

RCC Mobile App for Students

Rogue Community College offers a free social media app for mobile devices that allows RCC students to easily communicate with each other, get important messages from departments and clubs, access myRogue, keep up with campus events, explore maps and college services, and more.

To download the RCC app, search "Rogue Community College" in the Apple App Store or Google Play. Find links on the web on [RCC's Campus App](#) page.

Student Employment Services

Looking for on-campus Employment?

[Student Employment Services](#) offers support and assistance to students seeking on-campus employment. On-campus student employment is available to students enrolled in six or more credits with a 2.0+ cumulative GPA. Join the team today and reap the rewards of on-campus employment!

- Advance toward your career goals.
- Flexible schedule that supports you being a student first.
- Great opportunity to network within the RCC community.
- Learn applicable on-the-job skills and competencies.

For open positions, please visit the [Employment](#) page of the RCC website.

Student Life

[Associated Student Government](#)

[Athletics Department](#)

[Clubs and Organizations](#)

[Honor Society \(Alpha Zeta Pi\)](#)

[Ossie's Cupboard](#)

TRIO Programs

[TRIO Educational Opportunity Center \(EOC\)](#)

[TRIO Educational Talent Search](#)

[University Transfer - TRIO Student Support Services](#)

Voter Registration

Rogue Community College is committed to promoting voter registration and civic engagement among our students. The Associated Student Government is an active force in this effort and works to ensure each student is aware of voter resources. Click the link for [more information and to register online](#).

Additional Campus Resources

Advocacy and Resource Center

Need help [making ends meet](#)? Wondering where to find the service or program you need on campus? Are there barriers in your way keeping you from being the most successful RCC student you can be? If your basic needs are not being met and you'd like help finding some solutions, please fill out the [Self-Service Request Form](#) and the Resource Coordinator Susan Bame will help connect you to resources on campus and in the community.

ATM

Automated teller machines provided by CardTronics are available in the following locations:

- Redwood Campus, Student Center.
- Table Rock Campus, Student Entry Commons.

For assistance finding the machines, refer to the [Allpoint ATM](#) website or call 800-809-0308 option 2 to access the voice assistance ATM locator.

Problems with an ATM should be reported by calling CardTronics at 800-948-5884.

Auto Repair

S Building, Redwood Campus,
541-956-7175

Students in the RCC Automotive program repair cars that are 15 years old or newer when the work is related to their classes. Students and community members may bring their cars in for service. Call for an appointment. Charges are for parts, plus a \$25 service fee; there is no charge for labor.

RCC Online Bookstore

[eCampus Online Bookstore](#)

bookinfo@roguecc.edu

Bulletin Boards and Posting

Third party flyers and other materials wished to be posted on RCC bulletin boards must be stamped with approval from the corresponding office below:

- Redwood Campus, Rogue Central, 541-956-7411
- Riverside Campus, RCC/SOU Higher Education Center, Room 102, Rogue Central, 541-956-7353

- Table Rock Campus, Building A, Room 127, 541-956-7101

Community Resources

Call 211

Or visit the [211 Info](#) web site.

Mental Health Emergencies

911

24-hour crisis line hotline, Jackson County: 541-774-8201

24-hour crisis line hotline, Josephine County: 541-474-5360

Options for Southern Oregon

541-476-2373

[Options for Southern Oregon](#) serves people of all ages who have mental health needs.

Community Works HelpLine - Jackson County

[Community Works HelpLine](#) - Jackson County

541-779-2393

Women's Crisis Support Team - Josephine County

[Women's Crisis Support Team](#) - Josephine County

24-hour crisis line: 541-479-9349

Business line: 541-476-3877

Computer Labs

[Student Computer Labs](#)

541-956-7424

Copiers

Coin-operated copy machines for student use are available.

- Library, Wiseman Center, Redwood Campus
- Second floor, Room 218, RCC/SOU Higher Education Center, Riverside Campus

Distance Learning - Rogue Online

[RCC's Blackboard](#)

RO@roquecc.edu

Early Childhood Education Center - Head Start

Redwood Campus, 541-956-7309

The center was developed through a collaborative effort of RCC, Southern Oregon Head Start, Southern Oregon Educational Service District Early Childhood Services and the City of Grants Pass.

The Head Start center currently serves 62 children and their families, including 8 slots for children ages 2-3 in Early Head Start, and 54 slots for children aged 3-5 years old. RCC parents who have low incomes or have children with delays or disabilities are encouraged to apply. The school also provides teaching, learning and observation opportunities for RCC Early Childhood and Elementary Education program students, as well as students from other RCC departments and high school students.

Food Services

Our campuses offer a variety of dining options, including vending machines, micro-markets, and/or cafes, ensuring you have access to delicious meals and snacks while on campus. Explore the diverse menus and convenient locations across our campuses to find the perfect dining experience for you.

Catering services are available for meetings and events.

For menus, hours, and locations, please visit [RCC's Cafes and Micro-Markets](#) page.

Health Services

Healthcare is not provided at the college. First aid kits are available in administrative offices. Dial 911 for emergencies.

RCC does not offer accident and illness insurance plans for students. Click the link to find information on the Oregon Insurance Marketplace.

Learning Centers

[GED® and Pre-College Education](#)
GED@roquecc.edu
esl@roquecc.edu

541-956-7490

Library Services

[RCC Library](#)
circulation@roquecc.edu

541-956-7150

Lockers and Showers

Locker and shower facilities are available to students enrolled in physical education courses at various Rogue Community College campuses:

- Redwood Campus (Grants Pass): Lockers and showers are located in the Redwood Campus Gym. Students are responsible for providing their own locks, towels, and personal hygiene items.
- RCC/SOU Higher Education Center (Medford): Day-use lockers and showers are available. Students must supply their own locks, towels, and personal items. Lockers are for same-day use only.
- Table Rock Campus (White City): Shower facilities are available in TRC-A, Rooms 158 and 168. Students must bring their own towels and personal hygiene items.

Lactation Rooms

Lactation rooms are dedicated spaces where students and staff can care for infants comfortably and privately express breast milk while at RCC, and are available at these locations:

- Riverside Campus, Higher Education Center, Room 316.
- Redwood Campus, Student Center (near vending machines) and in the Gymnasium Women's Locker Room.
- Table Rock Campus, A Building, Room 179.

The rooms are accessible any time the buildings are open. For more information, contact Facilities and Operations at 541-956-7333 or Lucia Bartscher, Lead Title IX Coordinator, at 541-956-7124.

Parking

See the [RCC maps](#) identifying available parking areas on or near all campuses. Parking in undesignated or restricted areas may result in fines and/or towing.

- Redwood Campus: Parking is free in designated lots on campus.
- Riverside Campus: RCC has partnered with the City of Medford to offer free parking for RVC students and employees located at 122 Almond Street which can be [seen on this map](#). Information regarding [obtaining a free parking permit](#) to park in this lot, is available [here](#).

All other [parking adjacent to the campus](#) is provided by the City of Medford and monitored by Diamond Parking Services. Information regarding cost and permits for those lots is available online [here](#), or by calling Diamond Parking Services at 541-774-2082.

- Table Rock Campus Buildings A, B, and C: Parking is free in designated lots on campus.

Professional Licensure Disclosure

The U.S. Department of Education and the Oregon Higher Education Coordinating Commission (HECC) for participation in the National Council for State Authorization Reciprocity Agreement (NC-SARA) requires an institution to disclose whether a program will fulfill educational requirements for licensure or certification for each state.

The programs listed below may lead to a professional license or certification required for employment. Requirements vary from state to state. We recommend students contact the appropriate state licensing agency in their state or the state where they intend to work for up-to-date information about state licensure/certification requirements before beginning a program.

This page is updated as new information becomes available.

Apprenticeship Programs

Dental Hygiene

Dental Assisting

Human Services

Medical Assistant

Nursing

Practical Nursing

Security

[RCC Campus Security](#)

To contact RCC Security for any location, call 541-218-2930.

Vehicle Emergencies

Students may call Campus Security if they have a dead battery. Staff will assist if possible.

State Government

Oregon elections are held in May and November. Click the link for a list of [state elected officials](#).

Student Centers and Lounges

On the Redwood Campus, the Student Center is open during normal college hours. Student government offices and a cafeteria are located in the center, as are vending machines, rest rooms, and study space.

At the Riverside Center, B Building the Student Success Center is open during normal college hours and is home to the Athletics office, TRIO SSS, Counseling, Access & Disability Services, Tutoring, and Computer Labs. A welcome center is also available to connect students to services they need and to schedule appointments to meet with advisors, counselors, and other departments.

On the Table Rock Campus, the East Commons has an open space with tables, and a Micro-Market.

Student Housing

Rogue Community College does not provide student housing. Listings for private housing may be posted on RCC bulletin boards (with approval, contact 541-956-7187), or students may contact a local property management service.

Substance Abuse Referrals

Rogue Community College is a drug-free institution on all campuses. Possession of or being under the influence of controlled substances could lead to sanctions from RCC. Students who would like information regarding alcohol or drug treatment agencies are urged to [contact Counseling](#) for assistance and referrals.

Testing Centers

[RCC's Testing Centers](#)
541-956-7100

Walking and Jogging Trail

The Chuck Ruckman Memorial trail is a 1.6-mile walking and jogging trail on Redwood Campus dedicated to a former RCC Forestry instructor who died in a plane crash in 1985. The trail begins at the Josephine Building parking lot and ends at the Rogue Building parking lot. In between, it crosses College Avenue, then splits into upper and lower portions as it winds through the forested southwest area of Redwood Campus. A prominent feature along the trail near the Josephine Building is a 24-foot-tall totem pole that was carved in 1990 by chainsaw artist Don Colp.

GED® & Pre-College Education

[RCC PCE website](#)
GED@roguecc.edu
esl@roguecc.edu

541-956-7490

Pre-College Education Classes

Adults who need to learn reading, writing, and math skills, English as a Second Language, or workforce preparation may attend classes or guided study programs tailored to their needs in person or online with assistance from qualified instructors. Students may also use the RCC PCE learning centers in Jackson and Josephine Counties for skills review before taking the college placement test. To become a PCE student, you must take a placement test during orientation to put students into the correct level of English as a Second Language/English Language Acquisition or GED® courses and/or guided study programs.

[General Educational Development \(GED®\)](#)

[GED® Testing](#)

English as a Second Language/ English Language Acquisition (ESL/ELA)

[RCC ESL website](#)
esl@roguecc.edu
541-956-7490

Services for Employers

Pre-college and ESL/ELA classes can be adapted to the specific needs of employers and their employees. The GED® and Pre-College departments and industry-specific training departments at RCC contract with employers to satisfy their needs, design curricula, and provide instruction. Classes can be held at the work site or one of the RCC campuses in Jackson or Josephine Counties.

Departamento de GED® y Educación Preuniversitaria

[ESL and GED® en Español](#)
GED@roguecc.edu
541-956-7490

- Illinois Valley Learning Center, Kerby
- Redwood Campus, M Building, Grants Pass

- Table Rock Campus, A Building, White City

Clases de GED® y Educación Preuniversitaria

Los adultos que necesitan aprender habilidades básicas de lectura básica, escritura y matemáticas, y preparación de la fuerza laboral pueden asistir a clases adaptadas para sus necesidades o pueden participar en estudios guiados en un centro o de aprendizaje o en línea con la ayuda de instructores calificados. Los estudiantes también pueden usar los centros de aprendizaje de RCC PCE para revisar sus habilidades básicas antes de tomar el examen de localización (placement test).

Se requieren evaluaciones durante la orientación, para colocar a los estudiantes en los niveles adecuados de las clases de inglés (ESL) o clases de Educación Preuniversitaria/GED® (PCE/GED®) o programas de estudio guiados.

GED® en Español

Los estudiantes que tengan 16 años o sean mayores y que no tengan un diploma de la escuela preparatoria, pueden prepararse para tomar el examen de GED® en Inglés o en Español.

Las clases de GED® cuestan \$65 por trimestre. Las clases de preparación para el GED® y el estudio guiado en inglés están disponibles en todos nuestros sitios.

La preparación para el GED® en español está disponible en un ambiente de aula o en línea.

Los estudiantes que tienen 16 o 17 años de edad deberán presentar una exención de la educación obligatoria del distrito escolar en el que viven antes de inscribirse.

Los estudiantes que reciben la educación en su casa, bajo los auspicios de Servicios Educativos del Distrito de Southern Oregon y que tienen 16 o 17 años de edad, deben presentar una notificación acerca de la instrucción educativa en su hogar y una referencia de instrucción.

Las cuatro partes del examen de GED® cubren las habilidades de estudios sociales, ciencias, artes del lenguaje y matemáticas.

Exámen de GED®

El examen de GED® ahora es en la computadora. Los candidatos se registran, programan y pagan en línea en [la página de internet](#) o también pueden llamar al 1-877-392-6433.

El examen consiste de cuatro pruebas en total. El costo por examen es de \$44 por cada prueba.

El examen de GED® está disponible en:

- White City en el campus de Table Rock

Para una explicación de otros requisitos visite la página de internet del GED®: ged.com

Inglés como Segundo Idioma (ESL)

esl@roquecc.edu

541-956-7490

- Redwood Campus, M Building, Grants Pass
- Table Rock Campus, A Building, White City

Las clases de Inglés como segundo idioma/Adquisición del Lenguaje de Inglés (ESL/ELA) tienen un costo de \$65 por término. Los estudiantes aprenden a hablar, leer, escribir y comprender inglés hablado en las clases de ESL/ELA. Los estudiantes también aprenden a usar las computadoras y software educativo con la ayuda de instructores calificados.

Servicios para Empleadores

Las clases de GED® y Educación Preuniversitaria (PCE) y las clases de inglés como segundo idioma (ESL) pueden ser adaptadas a las necesidades específicas de los empleadores y sus empleados. El programa de GED® y Educación Preuniversitaria (PCE) de RCC y el departamento de entrenamiento personalizado en RCC hacen un contrato con empleadores para satisfacer sus necesidades, diseñar un currículo, y proporcionar instrucción. Las clases pueden realizarse en el lugar de trabajo del empleador o del empleado, o en un campus de RCC.

RCC Policies & Procedures

Below are some policies that are important for students to read and understand.

- [Academic Standing](#)
- [Drug-Free Environment and Prevention Program](#)
- [Financial Aid Satisfactory Academic Progress](#)
- [Minors on Campus](#)
- [Nondiscrimination](#)
- [Prohibition of Discrimination and Harassment](#)
- [Prohibition of Sexual Harassment Under Title IX](#)
- [Responding to Harassment Based on Sex Under Title IX](#)
- [Student Rights, Responsibilities and Freedoms](#)
- [Use of Copyrighted Material](#)
- [Use of Tobacco](#)

Transferring

For more information, please go to the [College Transfer](#) page. RCC students intending to earn a four-year degree from an Oregon public or private university may complete all the lower-division general education requirements at RCC and begin work on the requirements for a specific major. Students can prepare for transfer majors at RCC where the advantages include smaller classes, lower tuition costs, and teaching excellence. RCC also provides academic support through free tutoring services. Students attending RCC have several options for transfer to an Oregon public or private university.

Planning to Transfer

Making a transfer plan early can save time and money. Because the general education and academic major requirements differ at each Oregon university, it is important to identify which courses can be taken at RCC before transferring. Some academic majors may require an early start on mathematics. For other majors, students may need to transfer after one year at RCC in order to take essential lower-division major coursework offered only at the transfer institution.

Transfer Advising

Academic and faculty advisors and counselors are available to assist students in developing educational plans that will meet the requirements of their chosen majors and transfer schools. Additionally, students who may be undecided or undeclared in a major have access to RCC counselors and courses designed to assist them in choosing appropriate majors and careers.

Rogue Community College has developed transfer agreements (articulations), and course equivalences with Oregon Tech, Pacific Northwest College of Arts, Portland State University, Southern Oregon University, University of Phoenix, and Western Governor's University. The college/university connection offers students the option of earning a two-year degree and the opportunity to enroll in university courses at the same time, easing the transitions to a four-year university.

Direct Transfer

The direct transfer option is for students who have selected a transfer school and academic major and who want to take specific classes for that major and/or transfer to a university. Direct transfer students will be required to meet the transfer school's freshman or transfer admission requirements. These will include a minimum transfer GPA, completion of specific courses (e.g., WR 121Z, MTH 111Z, etc.), and completion of a certain number of transferable credits. Students who do not meet the transfer student criteria must satisfy the new freshman requirements. Students are advised to visit the transfer school's website for specific admission requirements. Students who choose the direct transfer option will have RCC courses evaluated and accepted on a course-by-course basis by the transfer institution.

Reverse Transfer

Students who earn an associate degree on the way to earning a bachelor's degree create a faster and more efficient track to baccalaureate achievement. Earning the degree provides an additional credential that makes them more competitive when applying for jobs and scholarships.

Students who transfer to a university or another community college before earning a degree, but after earning a minimum of 24 college-level credits at Rogue Community College, may transfer credits back to RCC. If classes earned elsewhere complete the requirements for an RCC degree, the college will grant it. To find out if you qualify, apply for graduation at Enrollment Services' [Forms for Students](#) page.

University Residency Requirements

Students should visit individual university websites to plan their transfer education and to determine residency requirements in place for specific institutions.

Transfer Agreements

For information on RCC's university partnerships please go to the College Transfer page.

Affiliations

Lane Community College

RCC partners with [Lane Community College](#) (LCC) to provide training for physical therapy assistants in Jackson and Josephine counties.

Students successfully completing the program are awarded an Associate of Applied Science degree by Lane Community College. RCC offers program prerequisites, general education, and related coursework locally, while students access PTA program-specific courses through LCC distance education delivery using Lane Online. The program prepares students to become entry-level physical therapy assistants in a variety of practice settings, and to pass the National Physical Therapy Examination (NPTE) administered by the Federation of State Boards of Physical Therapy.

Most of the program can be completed locally. Clinical placements in the second year of the program will depend on availability of sites. As such, students may have to travel outside their immediate geographic area to a location in the Pacific Northwest. Click the link for information regarding the [Physical Therapy Assistant](#) program.

Linn-Benton Community College

RCC partners with [Linn-Benton Community College](#) (LBCC) to provide training for occupational therapy assistants in Jackson and Josephine counties. LBCC's Occupational Therapy program prepares students to function as entry-level occupational therapy assistants in a variety of settings, and to pass the National Board for Certification in Occupational Therapy examination. Linn-Benton Community College awards an Occupational Therapy Assistant Associate of Applied Science (AAS) degree, with RCC offering program prerequisites, general education classes and related paperwork.

By taking a combination of RCC classes and distance-learning courses offered by LBCC, the OTA program can be completed while a student is living in the Rogue Valley. Students enrolled in the program will need to travel to the LBCC campus in Albany approximately two to four times a term. Click the link for details on the [Occupational Therapy Assistant](#) training.

Programs by Pathway and Degree Types

- [Associate of Arts Oregon Transfer](#)
- [Associate of General Studies](#)
- [Major Transfer Maps](#)
- [Oregon Transfer Module](#)
- [Occupational Skills Training](#)
- [Employment Skills Training](#)

Associate of Arts Oregon Transfer

About the Program

The Associate of Arts Oregon Transfer degree is a two-year program designed for students who intend to transfer to an Oregon university. Completion of the degree will satisfy lower division general education requirements and ensures junior standing at a university for registration purposes. Additionally, with careful planning, students may satisfy many of the lower division courses required in their academic majors.

Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the general education requirements of the school of their choice. Students are encouraged to work closely with their academic advisors to maximize the benefits of this degree.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to fulfill AAOT degree requirements. All courses listed meet those identified outcomes. For more information see this catalog.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Discipline studies-approved coursework in humanities, social science, and science/math/computer science transferred from another Oregon community college will be accepted if students have a declared AAOT major at RCC and received a "C-" or better grade in the course(s). College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

Students must complete a minimum of 90 college-level credits with a minimum grade of “C-” or better, including at least one course designated as meeting cultural literacy criteria. Students must also have a 2.0 cumulative GPA at the time the AAOT is awarded.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate classes in any given term. When transferring to a four-year Oregon public university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language, or
2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. Additionally, if students intend to complete a Bachelor of Arts (BA) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Students should inquire with their intended receiving institution for world language requirements.

Foundational Skills Requirements

AAOT Writing Skills

Minimum of 8 credits required. Students who took writing classes of 3 credits each must have WR121, WR122 and either WR123 or WR227. Students taking classes of 4 credits each must take WR 121Z and either WR 122Z or WR 227Z

- WR 121Z - Composition I **4 Credit(s)**
- WR 122Z - Composition II **4 Credit(s)**
- WR 227Z - Technical Writing **4 Credit(s)**

AAOT Oral Communication Courses

A minimum of one course is required.

- COMM 111Z - Public Speaking **4 Credit(s)**
- COMM 115 - Intercultural Communication **4 Credit(s)** ¹
- COMM 218Z - Interpersonal Communication **4 Credit(s)**

AAOT Mathematics

A minimum of one course required; prerequisite: MTH 95 or MTH 96.

- MTH 105Z - Math in Society **4 Credit(s)** ²
- MTH 111Z - Precalculus I - Functions **4 Credit(s)**

- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)**
- MTH 211 - Fundamentals of Elementary Math I **4 Credit(s)**
- MTH 212 - Fundamentals of Elementary Math II **4 Credit(s)**
- MTH 213 - Fundamentals of Elementary Math III **4 Credit(s)**
- MTH 244 - Inferential Statistics **4 Credit(s)**
- MTH 251Z - Differential Calculus **4 Credit(s)**
- MTH 252Z - Integral Calculus **4 Credit(s)**
- MTH 253Z - Calculus - Sequences and Series **4 Credit(s)**
- MTH 254 - Calculus IV - Vector Calculus **5 Credit(s)**
- MTH 256 - Differential Equations **5 Credit(s)**
- MTH 261 - Linear Algebra **5 Credit(s)**
- STAT 243Z - Elementary Statistics I **4 Credit(s)** ²

AAOT Fitness/Health/Physical Education

A minimum of one or more courses, totaling at least 3 credits.

- HE 112 - Emergency First Aid **1 Credit(s)**
- HE 199 - Special Studies - Health Issues **Var. (1-3) Credit(s)**
- HE 208 - HIV and Infectious Diseases **1 Credit(s)**
- HE 250 - Personal Health **3 Credit(s)**
- HE 252 - First Aid - CPR **3 Credit(s)**
- HE 253 - Wilderness First Aid **3 Credit(s)**
- HE 259 - Athletic Injury Care and Prevention **3 Credit(s)**
- HE 261 - CPR - Basic Life Support Provider **1 Credit(s)**
- HPE 295 - Health and Fitness for Life **3 Credit(s)**
- PE185___ - Activity Courses **1-3 Credit(s)**
- PE 199 - Special Studies - PE **Var. (1-3) Credit(s)**

Discipline Studies Requirements

AAOT Humanities Requirement Courses

A minimum of three courses from the following list, chosen from at least two disciplines/prefixes.

- ART 115 - Basic Design - Composition **3 Credit(s)**
- ART 131 - Introduction to Drawing - Value **3 Credit(s)**
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)** ¹
- ART 205 - Renaissance to Baroque Art **4 Credit(s)** ¹

- ART 206 - 18th Century to Contemporary Art **4 Credit(s)** ¹
- COMM 111Z - Public Speaking **4 Credit(s)** ³
- COMM 115 - Intercultural Communication **4 Credit(s)** ^{1, 3}
- COMM 201 - Media and Society **4 Credit(s)**
- COMM 218Z - Interpersonal Communication **4 Credit(s)** ³
- COMM 225 - Small Group Communication **4 Credit(s)**
- COMM 237 - Communication and Gender **4 Credit(s)** ¹
- COMM 270 - Argumentation and Debate **3 Credit(s)**
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)** ¹
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)** ¹
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)** ¹
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 257 - African American Literature **4 Credit(s)** ¹
- ENG 260 - Introduction to Women Writers **4 Credit(s)** ¹
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)** ¹
- HUM 102 - Introduction to Humanities II **4 Credit(s)** ¹
- HUM 103 - Introduction to Humanities III **4 Credit(s)** ¹
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)** ¹
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)** ¹
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)** ¹
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)** ¹
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)** ¹
- IS 110 - Intro to International Studies **4 Credit(s)** ¹
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)** ¹
- MUS 205 - History of Jazz **3 Credit(s)** ¹

- MUS 206 - Introduction to Rock Music **3 Credit(s)** ¹
- MUS 208 - Film Music **3 Credit(s)** ¹
- MUS 210 - Music in World Cultures **4 Credit(s)** ¹
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- PHL 103 - Critical Reasoning **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)** ¹
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)** ¹
- SPAN 201 - Second Year Spanish I **4 Credit(s)** ¹
- SPAN 202 - Second Year Spanish II **4 Credit(s)** ¹
- SPAN 203 - Second Year Spanish III **4 Credit(s)** ¹

AAOT Social Science Requirement Courses

At least four courses from the following list, chosen from at least two disciplines/prefixes.

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)** ¹
- ANTH 150 - Introduction to Archaeology **4 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- GEOG 110 - Introduction to Human Geography **4 Credit(s)** ¹
- GEOG 120 - World Regional Geography **4 Credit(s)**
- HST 104 - World Civ Prehistory - Middle Ages **4 Credit(s)** ¹
- HST 105 - World Civ Byzantium - Present **4 Credit(s)** ¹
- HST 201 - US History through Reconstruction **4 Credit(s)** ¹
- HST 202 - US HST Post Reconstruction-Present **4 Credit(s)** ¹
- PS 201 - US Gov Institutions and Policy **4 Credit(s)**
- PS 202 - US Gov Ideologies and Engagement **4 Credit(s)**
- PS 203 - State and Local Government **4 Credit(s)**
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**
- PSY 202Z - Introduction to Psychology II **4 Credit(s)**
- PSY 215 - Lifespan Human Development **4 Credit(s)**

- PSY 219 - Introduction to Abnormal Psychology **4 Credit(s)**
- PSY 228 - Introduction to Positive Psychology **4 Credit(s)**
- PSY 231 - Human Sexuality **3 Credit(s)**
- SOC 204Z - Introduction to Sociology **4 Credit(s)** ¹
- SOC 205Z - Social Change and Institutions **4 Credit(s)** ¹
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)** ¹
- SOC 218 - Sociology of Gender **4 Credit(s)**
- SOC 221 - Juvenile Delinquency **4 Credit(s)**
- SOC 206Z - Social Problems **4 Credit(s)** ¹
- SOC 228 - Environment and Society **4 Credit(s)** ¹
- SOC 230 - Aging and Society **4 Credit(s)**
- SOC 235 - Chicano-a and Latino-a US History **4 Credit(s)** ¹
- HST 259 - Chicano-a Latino-a US History **4 Credit(s)** ¹
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- SOC 244 - Introduction to Criminology **4 Credit(s)**

AAOT Science/Math/Computer Science Courses

Four courses required of which three must be lab sciences from the Lab Science list. The fourth course may be a lab or non-lab science, math or computer science. Note: A maximum of three courses from any one discipline or prefix, and only one of the four courses can be a regional field studies course, indicated by asterisk.

- BI 101 - Introduction to Biology I **3 Credit(s)** and BI 101L (non-majors)
- BI 102 - Introduction to Biology II **3 Credit(s)** and BI 102L (non-majors)
- BI 103 - Introduction to Biology III **3 Credit(s)** and BI 103L (non-majors)
- BI 112 - Biology for Health Professions **3 Credit(s)** and BI 112L
- BI 121 - Elem Anatomy - Physiology I **3 Credit(s)** and BI 121L
- BI 122 - Intro Anatomy - Physiology II **3 Credit(s)** and BI 122L
- BI 221Z - Principles of Biology - Cells **5 Credit(s)**
- BI 222Z - Principles of Biology - Organisms **5 Credit(s)**
- BI 223Z - Principles of Bio - Ecology and Evo **5 Credit(s)**
- BI 231 - Anatomy and Physiology I **3 Credit(s)** and BI 231L
- BI 232 - Anatomy and Physiology II **3 Credit(s)** and BI 232L
- BI 233 - Anatomy and Physiology III **3 Credit(s)** and BI 233L
- BI 234 - Microbiology **3 Credit(s)** and BI 234L
- CHEM 104 - Introductory Chemistry **4 Credit(s)** and CHEM 104L
- CHEM 105 - Introductory Organic Chemistry **3 Credit(s)** and CHEM 105L
- CHEM 106 - Introductory Biochemistry **3 Credit(s)** and CHEM 106L
- CHEM 221Z - General Chemistry I **4 Credit(s)** and CHEM 227Z

- CHEM 222Z - General Chemistry II **4 Credit(s)** and CHEM 228Z
- CHEM 223Z - General Chemistry III **4 Credit(s)** and CHEM 229Z
- G 101 - Intro to Geology I **3 Credit(s)** and G 101L
- G 102 - Intro to Geology II Surface Process **3 Credit(s)** and G 102L
- G 103 - Intro to Geology III Historical **3 Credit(s)** and G 103L
- GS 104 - Physical Science - Physics **3 Credit(s)** and GS 104L
- GS 107 - Physical Science - Astronomy **3 Credit(s)** and GS 107L
- GS 108 - Physical Science - Oceanography **3 Credit(s)** and GS 108L
- GS 110 - Intro to Renewable Energy **3 Credit(s)** and GS 110L
- GS 111 - Intro to Forensic Science **3 Credit(s)** and GS 111L
- GS 170 - Regional Field Studies **3 Credit(s)** * and GS 170L *
- PH 201 - General Physics I **4 Credit(s)** and PH 201L
- PH 202 - General Physics II **4 Credit(s)** and PH 202L
- PH 203 - General Physics III **4 Credit(s)** and PH 203L
- PH 211 - General Physics - Calculus I **4 Credit(s)** and PH 211L
- PH 212 - General Physics - Calculus II **4 Credit(s)** and PH 212L
- PH 213 - General Physics - Calculus III **4 Credit(s)** and PH 213L

AAOT Non-lab Science/Math/Computer Science Courses

- BI 100SB - Biology of Human Body Systems **3 Credit(s)**
- CS 160 - Introduction to Computer Science **4 Credit(s)**
- CS 161J - Computer Science I - Java **4 Credit(s)**
- CS 162J - Computer Science II - Java **4 Credit(s)**
- CS 161U - Computer Science I - C++ **4 Credit(s)**
- CS 162U - Computer Science II - C++ **4 Credit(s)**
- CS 260 - Data Structures I **4 Credit(s)**
- ENV 111 - Intro to Environmental Science **3 Credit(s)**
- G 100 - Fundamentals of Geology **3 Credit(s)**
- MTH 105Z - Math in Society **4 Credit(s)** ⁴
- MTH 111Z - Precalculus I - Functions **4 Credit(s)** ⁴
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)** ⁴
- MTH 211 - Fundamentals of Elementary Math I **4 Credit(s)** ⁴
- MTH 212 - Fundamentals of Elementary Math II **4 Credit(s)** ⁴
- MTH 213 - Fundamentals of Elementary Math III **4 Credit(s)** ⁴
- MTH 244 - Inferential Statistics **4 Credit(s)** ⁴
- MTH 251Z - Differential Calculus **4 Credit(s)** ⁴
- MTH 252Z - Integral Calculus **4 Credit(s)** ⁴

- MTH 253Z - Calculus - Sequences and Series **4 Credit(s)**⁴
- MTH 254 - Calculus IV - Vector Calculus **5 Credit(s)**⁴
- MTH 256 - Differential Equations **5 Credit(s)**⁴
- MTH 261 - Linear Algebra **5 Credit(s)**⁴
- NFM 225 - Nutrition **4 Credit(s)**
- STAT 243Z - Elementary Statistics I **4 Credit(s)**⁴

Elective Requirements

Complete sufficient number of college-level (numbered 100 and above) courses to meet total degree requirement of at least 90 credits. It is recommended that electives be from the major area of interest. First-year foreign language courses may be used as elective credits. A maximum of 12 career and technical course credits may be used toward this degree including any career and technical CWE courses.

Minimum Total Program Credits: 90

Notes

¹ Meets cultural literacy criteria (one course required).

² MTH 105Z and STAT 243Z may not be accepted if students do not complete this degree before transferring to an Oregon university. Students should check with the university about possible additional math required for their degree. STAT 243Q is available for non-STEM students. Check with your advisor

³ May be taken if not used to fulfill oral communication foundational requirement.

⁴ May be taken if not used to fulfill mathematics foundational requirement.

For more information, contact the Advising office:

Phone: 541-956-7500

Email: Advising@roquecc.edu

Web address: www.roquecc.edu/advising

TTY: Oregon Telecom Relay Service, 711

Associate of General Studies

About the Program

The Associate of General Studies degree is a two-year program designed to provide students the opportunity to acquire a broad education rather than pursuing a specific college major or program. The general studies degree may, in addition to general education coursework, include lower-division college transfer and career and technical education courses. Because of the flexibility of this degree, it may not fulfill requirements for transfer to a four-year institution.

If planning on a specific interest within the Associate of General Studies, see an academic advisor.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to apply toward degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Individual courses may be challenged based on the student's life experience or knowledge. Arrangements may be made on an individual basis with the instructor teaching the course to determine specific challenge procedures. College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

The Associate of General Studies degree will be awarded to students who complete a minimum of 90 credit hours of college transfer and career and technical courses from the curriculum listed. Students must receive a grade of "C-" or better in all coursework. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned a "C-" or better grade.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate classes in any given term. When transferring to a four-year public Oregon college or university, one of the following options must be met as a requirement for admission:

- Two years of the same high school-level world language, or
- Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. Additionally, if students intend to complete a Bachelor of Arts (BA) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Students should inquire with their intended receiving institution for world language requirements.

General Education Requirements

- COMM 218Z - Interpersonal Communication **4 Credit(s)** or COMM 111Z or COMM 115
- MTH 105Z - Math in Society **4 Credit(s)**² or MTH 111Z, MTH 211, STAT 243Z 2, MTH 251Z or higher-level math.
- WR 121Z - Composition I **4 Credit(s)**

Total General Education Credits: 12

Core Requirements

A minimum of 3 or 4 credits must be taken from each of the following categories with no more than 9 credits from any one category.

- Art/Humanities **3-9 Credits**
- Science/Computer Science (one lab science is required) **4-9 Credits**
- Social Science **3-9 Credits**
- Physical Education/Health **3-9 Credits**

Minimum Total Required Core Credits: 18

Other Requirements

- Any college-level course

Total Other Credits: 60

Minimum Total Program Credits: 90

Notes:

¹ MTH 105Z and STAT 243Z may not be accepted if students do not complete this degree before transferring to an Oregon university. Students should check with the university about possible additional math required for their degree.

Note: At the discretion of the department, a maximum of 24 Cooperative Work Experience (CWE) credits may be used toward this degree provided they have been approved within a program of study (a concentration of classes within a major or subject area). CWE is an advanced learning opportunity (capstone), not an exploratory experience, and should be completed within the last two terms of the degree. See an adviser for more information.

For more information, contact the Advising office:

Phone: 541-956-7500

Email: Advising@roguecc.edu

Web address: www.roguecc.edu/advising

TTY: Oregon Telecom Relay Service, 711

Oregon Transfer Module

About the Module

The Oregon Transfer Module provides a one-year curriculum for students who want to transfer to another Oregon community college or public university prior to completing a two-year degree. The module allows students to complete one year of general education courses that will be applied to the general education and academic major requirements of the transfer school. By fulfilling these requirements and meeting the admission standards of the transfer institution, students will qualify for sophomore standing.

Students choosing this transfer option are advised to work closely with faculty advisors to ensure selection of appropriate courses. Upon transfer, students may be required to complete additional general education and academic major requirements specific to the transfer institution. Students should be aware that if they transfer prior to completing this module, courses will be evaluated individually toward the general education requirements of the school of their choice.

The courses listed in this module may also be applied to the Associate of Arts Oregon Transfer degree (AAOT), the Associate of Science Oregon Transfer - Business degree (ASOT-Business), and the Associate of Science Oregon Transfer - Computer Science degree (ASOT-Computer Science), thus providing additional options for students who may start on this track and decide to complete a two-year degree. When enrolling, students should identify either the AAOT, ASOT-Business or ASOT-Computer Science major. It is critical to consult with your faculty advisor.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to fulfill AAOT degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies.

Completion Requirements

All courses must be passed with a grade of "C-" or better and must be worth at least 3 credits (quarter system). Students must have a minimum cumulative GPA of 2.0 at the time the module is posted. It is important to note that this module is neither a certificate nor a degree. Upon successful completion of coursework, students will have the Oregon Transfer Module noted on their RCC academic transcripts. In order for the Oregon Transfer Module designation to be posted, students must complete an application for graduation prior to completing the Oregon Transfer Module.

Foundational Skills Requirements

Writing

Refer to the AAOT Writing list, two courses required.

Oral Communication

Refer to AAOT Oral Communication list. One course required.

Mathematics

Refer to the AAOT Mathematics list. One course required. 1

Total Foundational Skills Credits: 16-17

Introduction to Discipline Requirements

Humanities

Refer to the AAOT Humanities list. Three courses required.

Social Science

Refer to the AAOT Social Science list. Three courses required.

Science/Math/Computer Science, and Non-lab Science/Math/Computer Science

Refer to the AAOT Science/Math/Computer Science list, and to the Non-lab Science/Math/Computer Science list. Three courses required, including at least one biological or physical science course with lab - maximum of one course from the regional field studies courses allowed, which are indicated by asterisk. 2

Total Discipline Requirements Credits: 30-39

Electives

Complete a sufficient number of transfer-level courses (numbered 100 and above) to meet the Oregon Transfer Module requirement of at least 45 total credits. Elective credits must be in the humanities, social science or science/math/computer science areas and be at least three credits each.

Total Oregon Transfer Module Credits: 46-56

¹ MTH 105Z and STAT 243Z may not be accepted as fulfilling the math requirement at an Oregon university. Students planning to transfer should check with the university about possible additional math courses required for their degree. STAT 243Q is available for non-STEM students. Check with your advisor

² If a math class is selected, it must be in addition to the mathematics foundational requirement.

For more information, contact the Advising office:

Phone: 541-956-7500

Email: Advising@roquecc.edu

Web address: www.roquecc.edu/advising

TTY: Oregon Telecom Relay Service, 711

Occupational Skills Training

About the Program

The Occupational Skills Training (OST) one-year certificate program provides a combination of academic study and hands-on training in any one of a variety of specific occupations. Students earn approximately half their program credits through training at local business sites. Almost any occupation can be addressed providing the following conditions are met: 1) There are jobs currently available in the selected field; 2) there is an appropriate training site available in the community; 3) the occupational goal is appropriate to the program length of one year; and 4) there is no overlap with existing RCC programs (trainings may overlap for students in special circumstances as approved by program personnel). RCC program staff will assist students in assessing possible occupations.

Customized learning goals for hands-on training are developed for each student by program faculty. These goals are chosen with care to ensure students' preparation for entry-level employment in the specific occupation of choice. Student progress is evaluated by RCC faculty with input from training site supervisors. Required academic coursework includes general education courses to increase knowledge of basic skills common to all work environments. Students are also required to take elective coursework related to their chosen occupational goals. Credits earned in this program may be applied to the Associate of General Studies degree. The OST program by itself is not financial aid eligible.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Occupational Skills Training Certificate include:

Perform skills related to chosen occupation goal.

Demonstrate industry standards for employability skills at a worksite.

Develop tools related to job search activities.

Entry Requirements

Students must submit a completed Occupational Skills Training (OST) application to program staff to be considered for acceptance into the program. Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also enroll in classes that would increase their employability and success. Criminal background checks and/or professional liability insurance are required for some occupations.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Individual courses may be challenged based on the student's life experience or knowledge. Arrangements may be made on an individual basis with the instructor teaching the course to determine specific challenge procedures.

Graduation Requirements

A certificate in Occupational Skills Training will be awarded to students who complete all courses in this program with a grade of "C-" or better. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

General Education Requirements

- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or higher-level math course
- PSY 101 - Psychology of Human Relations **3 Credit(s)** or
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Total General Education Credits: 10-11

Work-based Training Courses

- ST 109 - Skills Training Seminar **1 Credit(s)** ¹
- ST 101 - Occupational Skills Training I **Var. (1-12) Credit(s)** ² and/or ST 201 ²
- SRV 101 - Service Learning **Var. (1-6) Credit(s)** ²

Total Work-Based Training Courses: 18-31

Approved Electives

- College-level (100 or 200 numbered) electives. Courses must be pre-approved on a training plan by the OST department and must be 100-level or above related to career direction. Credits / Units: 8-18 Credit(s) ST 199 - Skills Training Workshop **Var. (1-4) Credit(s)** or ST 199L Credits / Units: Var. (1-4)

Total Electives related to career direction: 8-18

Total Program Credits: 36-60

Notes:

¹ ST 109 is a required course.

² Minimum of any combination of 17 work-based learning credits of SRV 101 / ST 101 / ST 201, based on approved training plan and supervised by OST faculty.

For more information contact the Individualized Career Training Department:

Grants Pass or Medford: 541-956-7500

Email: OccupationalSkillsInfo@roquecc.edu

Web address: www.roquecc.edu/ICT

TTY: Oregon Telecom Relay Service, 711

Employment Skills Training

About the Program

The Employment Skills Training (EST) program provides a tailored course of study in a wide variety of career fields. Students who need only brief training to meet industry standards for employment may be possible EST candidates. Program plans are developed collaboratively between staff and students, designed to maximize each student's readiness for employment in their chosen field. Students learn skills for in-demand occupations through a combination of academic courses and on-the-job training. Plans may include a wide selection of credit courses.

Students earn a portion of their program credits through training at local business sites. Credits earned in this program may be applied to other RCC certificates or degrees. Students should be aware that criminal background checks or additional liability insurance might be required in certain fields. EST is not eligible for financial aid as a stand-alone program.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program outcomes for the Employment Skills Training Certificate are:

Perform skills related to chosen occupation goal.

Demonstrate industry standards for employability skills at a worksite.

Entry Requirements

Students must submit a completed Employment Skills Training (EST) application to program staff to be considered for acceptance into the program. Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also enroll in classes that would increase their employability and success. Criminal background checks and/or professional liability insurance are required for some occupations.

Advance Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Individual courses may be challenged based on the student's life experience or knowledge. Arrangements may be made on an individual basis with the instructor teaching the course to determine specific challenge procedures.

Graduation Requirements

A certificate in Employment Skills Training will be awarded to students who complete all courses in this program with a grade of "C-" or better. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Work-based Training courses

ST 101 - Occupational Skills Training I Var. (1-12) Credit(s) 1, 2

SRV 101 - Service Learning Var. (1-6) Credit(s) 1, 2

Total Work-based Training Courses: 3-9 credits

Approved Electives

College-level (100 or 200 numbered) electives. Courses must be pre-approved on a training plan by the OST department and must be 100-level or above related to career direction. Credits /

Units: Var. Credit(s) ST 199 - Skills Training Workshop **Var. (1-4) Credit(s)** or ST 199L

Total Electives related to career direction: 12-33

Total Program Credits: 15-42

Notes:

¹ For each 15 credits of elective coursework the student takes, they are allowed to take 4 credits or 120-144 hours of work experience. Electives must be in the student's EST program plan which is required to be approved by the EST faculty advisor.

² Work-based learning credits in excess of program requirements will not be applied to this Certificate.

For more information contact the Individualized Career Training Department:

Grants Pass or Medford: 541-956-7500

Email: OccupationalSkillsInfo@roquecc.edu

Web address: www.roquecc.edu/ICT

TTY: Oregon Telecom Relay Service, 711

Applied Technology Pathway

Computer Aided Design and Drafting

Career Pathway Certificate

About the Program

The purpose of computer-aided design (CAD) is to optimize and streamline the designer's workflow, increase productivity, improve the quality and level of detail in the design, improve documentation communications and often contribute toward a manufacturing design database. CAD is the use of computer-based software to aid in two-dimensional (2-D) and three-dimensional (3-D) design processes and models. This program prepares students to take an industry recognized certification exam which, if passed, places students into an employer database.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Manufacturing Technology Computer Aided Design and Drafting Career Pathway Certificate are:

Use CAD software effectively to meet design and drafting standards.

Interpret and create mechanical blueprints to industry standards.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Manufacturing Technology Department Chair's recommendation. In order to ensure that coursework is current, program courses over four years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. Official transcripts must be filed with the Enrollment Services office and the Manufacturing Technology Department.

Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 38

Program email address: ManufacturingInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or designated placement
- CIS 120 - Concepts in Computing I **2 Credit(s)**

Prerequisite Credits: 0-6

Term 1

Check in with Advisor

- MET 101 - Mechanical Drafting **3 Credit(s)**
- MET 111 - CAD I Mechanical Autodesk Inventor **3 Credit(s)**
- MET 121 - CAD I Mechanical SolidWorks **3 Credit(s)**
- MFG 101 - Introduction to Manufacturing **3 Credit(s)**

Term Credits: 12

Term 2

- MET 112 - CAD II Mechanical Autodesk Inventor **3 Credit(s)**
- MET 122 - CAD II Mechanical SolidWorks **3 Credit(s)**
- MFG 102 - Machine Shop Basics **3 Credit(s)**
- MFG 116 - Metrology **3 Credit(s)**
- MFG 118 - Introduction to Prototyping **1 Credit(s)**

Term Credits: 13

Term 3

- MET 105 - Blueprint Reading - Mechanical **3 Credit(s)**
- MET 113 - CAD III Mech Autodesk Inventor **3 Credit(s)**
- MET 123 - CAD III Mechanical SolidWorks **3 Credit(s)**
- MFG 121 - Machine Tool - Lathe I **4 Credit(s)**

Term Credits: 13

For more information contact the Manufacturing Technology Department:

Phone: 541-956-7500

Email: ManufacturingInfo@roquecc.edu

Web address: www.roquecc.edu/manufacturing

Computer Numerical Control - CNC Operator

Career Pathway Certificate

About the Program

This Career Pathway two-term certificate integrates conventional manufacturing techniques with Computer Numerical Control (CNC) manufacturing skills. This training is one entry point into the Manufacturing Career Pathway which can lead to a CNC Operator career. Gaining a solid foundation in mathematics and computer skills, students will learn how to read mechanical blueprints, how to use machine tools such as the lathe and mill, and will be introduced to metallurgy. This career pathway certificate stacks with both the Computer Aided Design and Drafting and the Manual Machinist certificates and all programs lead into the Associate of Applied Science Manufacturing Technology degree program.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Manufacturing Technology Computer Numerical Control (CNC) Operator Career Pathway Certificate are:

Demonstrate personal and industry safety standards.

Operate CNC machines to produce parts to specification.

Interpret mechanical blueprints to industry standards.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Manufacturing Technology Department Chair's recommendation. In order to ensure that coursework is current, program courses over four years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. Official transcripts must be filed with the Enrollment Services Office and the Manufacturing Technology Department.

Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 30

Program email address: ManufacturingInfo@roquecc.edu

Term 1

Check in with Advisor

- MET 105 - Blueprint Reading - Mechanical **3 Credit(s)**
- MFG 102 - Machine Shop Basics **3 Credit(s)**
- MFG 116 - Metrology **3 Credit(s)**
- MFG 140 - CNC Controls I **3 Credit(s)**
- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 higher-level math

Term Credits: 16

Term 2

- MET 160 - Introduction to Metallurgy **3 Credit(s)**
- MFG 121 - Machine Tool - Lathe I **4 Credit(s)**
- MFG 122 - Machine Tool - Mill I **4 Credit(s)**
- MFG 141 - CNC Controls II **3 Credit(s)**

Term Credits: 14

For more information contact the Manufacturing Technology Department:

Phone: 541-956-7500

Email: ManufacturingInfo@roquecc.edu

Web address: www.roquecc.edu/manufacturing

TTY: Oregon Telecom Relay Service, 711

Computer Software Specialist

Career Pathway Certificate

About the Program

The Computer Software Specialist Career Pathway Certificate is designed to give students a comprehensive knowledge of a variety of commonly used software programs. It generally can be completed in two terms. Students will learn industry standard word processing, spreadsheet and presentation programs, as well as gain a strong foundation in operating systems. Students will be prepared for careers where strong computer application skills and computer system navigation are required. This is not an aid-eligible program. The Career Pathway Certificate is the first step towards the Computer Support Technician Associate of Applied Science degree.

Program Learning Outcome

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. The program learning outcome for the Computer Support Technician: Computer Software Specialist Career Pathway Certificate is:

Apply standard business productivity software to support electronic projects.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies and the Computer Science Department Chair's approval. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Students in the high school College Now credit program must meet with the department chair to determine placement.

Credits earned in the successful completion of Career Pathway Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive a Career Pathways Certificate in Computer Software Specialist. Certain prerequisite and required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note:

some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 17

Program email address: ComputerScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- CIS 120 - Concepts in Computing I **2 Credit(s)** ¹
- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-10

Term 1

Check in with Advisor

- CIS 125PT - Advanced Applications - PowerPoint **2 Credit(s)** fall term only
- CIS 125DB - Advanced Applications - Access **3 Credit(s)**
- BT 168 - Advanced Applications - Word **3 Credit(s)**

Term Credits: 8

Term 2

- BA 169Z - Data Analysis Using Microsoft Excel **4 Credit(s)**
- CIS 145 - Introduction to Hardware - Software **5 Credit(s)**

Term Credits: 9

Notes:

¹ Approved Computer Information Science or Computer Science class, CIS 120 / CS120 or above, or documented computer proficiency within the past ten years

For more information, contact the Computer Science Department:

Phone: 541-956-7500

Email: ComputerScienceInfo@roquecc.edu

Web address: www.roguecc.edu/computerScience

TTY: Oregon Telecom Relay Service, 711

GTAW Welder

Career Pathway Certificate

About the Program

The Gas Tungsten Arc Welding Career Pathways Certificate will give students a focused career path in GTAW for a multitude of industry prospects including process piping, aluminum product manufacture and job shop positions. Students will develop skills in joining mild steel, stainless steel and aluminum, utilizing this challenging process. Welding will be completed in flat, horizontal and vertical and overhead positions using both transformer rectifier machines and programmable square wave inverter technology.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Industrial Welding Technology GTAW Welder Career Pathway Certificate are:

Demonstrate a commitment to a culture of safety.

Produce industry-quality welds using GTAW on stainless steel and aluminum plate.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over ten years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements. High school College Now credit will be accepted in accordance with current agreement. Verified industry experience may be substituted for some coursework in accordance with college policy and the department chair's approval.

Credits earned in the successful completion of Career Pathways Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their pathways certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement

Prerequisite Credits: 0-4

Required Courses

- WLD 111 - Industrial Welding I **6 Credit(s)**
- WLD 113 - Industrial Welding III **6 Credit(s)**
- WLD 212 - Industrial Welding V **6 Credit(s)** ¹
- WLD 250B - Selected Topics in Welding GTAW **Var. (2-6) Credit(s)** (requirement for the GTAW Welder CPC is 3 credits for this course)
- WLD 250F - Welding Capstone Project **Var. (2-6) Credit(s)** (requirement for the GTAW Welder CPC is 3 credits for this course)

Total Program Credits 24

Notes:

¹ Documentation may be required to register for WLD 212 without course prerequisites. See Welding Advisor for assistance as needed.

For more information, contact the Industrial Welding Technology Department:

Phone: 541-956-7500

Email: WeldingInfo@roguecc.edu

Web address: www.roguecc.edu/Welding

TTY: Oregon Telecom Relay Service, 711

Information Technology Technician

Career Pathway Certificate

About the Program

The Information Technology Technician Certificate is a three-term certificate designed to give students the appropriate experiences in hardware, software support, and customer service to lead to entry-level employment in the information technology field. Students will explore problem solving and troubleshooting in the classroom setting and in internship-based environments. This certificate can be completed while working toward the Computer Support Technician Associate of Applied Science degree.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. The program learning outcomes for Information Technology Technician Career Pathway Certificate are:

Develop critical thinking and problem-solving skills working with hardware, networks, and in software support.

Install and configure various operating systems and networks.

Develop interpersonal and customer service skills.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies and the Computer Science Department Chair's approval. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the Computer Science department chair before being accepted toward core requirements. Students in the high school College Now credit program must meet with the department chair to determine placement.

Credits earned in the successful completion of Career Pathway Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive an Information Technology Technician Career Pathway Certificate. Certain prerequisite and required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 43

Program Prerequisites:

- CIS 120 - Concepts in Computing I **2 Credit(s)** ¹ Required for AAS graduation.
- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-10

Term 1

- WR 121Z - Composition I **4 Credit(s)**
- CIS 145 - Introduction to Hardware - Software **5 Credit(s)**
- MTH 96 - Applied Algebra II **4 Credit(s)** or MTH 65 or higher-level math

Term Credits: 13

Term 2

- CIS 179 - Introduction to Networks **4 Credit(s)**
- CS 133C - Programming Using C Sharp **4 Credit(s)** winter term only, or CS 161U (fall term only) or CS 160 (fall / spring term only)
- CIS 225 - Computer End-User Support I **4 Credit(s)** winter term only
- PSY 101 - Psychology of Human Relations **3 Credit(s)**

Term Credits: 15

Term 3

- CIS 240 - Advanced Operating Systems **4 Credit(s)**
- CIS 279 - Network Operating Systems **4 Credit(s)**
- CIS 284 - Network Security Fundamentals **4 Credit(s)**
- CIS 282 - Help Desk Internship **3 Credit(s)** or CIS 280 (three credits of CIS 280)

Term Credits: 15

Notes:

¹ Approved Computer Information Science or Computer Science class, CIS 120 / CS120.

For more information, contact the Computer Science Department:

Phone: 541-956-7500

Email: ComputerScienceInfo@roguecc.edu

Web address: www.roguecc.edu/computerScience

TTY: Oregon Telecom Relay Service, 711

Preventive Maintenance Technician

Career Pathway Certificate

About the Program

This Career Pathway Certificate introduces the basic duties and responsibilities involved in conducting fundamental preventive maintenance checks and services (PMCS). The program blends classroom instruction with hands-on lab experience, immersing students in the core aspects of preventive maintenance, safety procedures (OSHA), hydraulic brake systems, principles of operations of powertrains, and fundamental welding techniques.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Diesel Technology Preventive Maintenance Technician Career Pathway Certificate are:

Demonstrate OSHA and industry safety standards.

Locate and utilize technical resources for diesel repairs.

Evaluate and diagnose truck systems.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Diesel Technology Department Chair's recommendation. In order to ensure that coursework is current, program courses over four years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. Official transcripts must be filed with the Enrollment Services Office and the Diesel Technology Department. Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note, some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Term 1

- DS 111 - Basic Electricity Diesel I **3 Credit(s)**
- DS 120 - Diesel Practices **3 Credit(s)**
- DS 131 - Diesel Engine Dynamics - Diagnosis **4 Credit(s)**
- WLD 101 - Welding Fundamentals I **3 Credit(s)** Note: WLD 111D is equivalent to WLD 101 and WLD 102

Term Credits: 13

Term 2

- DS 141 - Heavy Equipment Power Trains **4 Credit(s)**
- DS 151 - Heavy Equipment Brakes **5 Credit(s)**
- DS 275 - Preventative Maintenance Inspection **4 Credit(s)**

Term Credits: 13

Total Program Credits: 26-29

For more information, contact the Diesel Technology Department:

Phone: 541-956-7500

Email: DieselInfo@roquecc.edu

Web address: www.roquecc.edu/diesel

TTY: Oregon Telecom Relay Service, 711

SMAW Welder

Career Pathway Certificate

About the Program

The SMAW Career Pathways Certificate gives students the necessary skills to an entry level position where Shielded Metal Arc Welding is the predominate welding process. Students will develop skills utilizing E 7018 and E 6010 in Flat, Horizontal, Vertical and overhead welding positions. They will train in passing the A.W.S. D1.1 welding qualification test if they so choose.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Industrial Welding Technology SMAW Welder Career Pathway Certificate are:

Demonstrate a commitment to a culture of safety.

Produce industry-quality welds on various diameters of carbon steel pipe in the 5g and 6g positions using SMAW electrodes E6010 and E7018.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over ten years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements. High school College Now credit will be accepted in accordance with current agreement. Verified industry experience may be substituted for some coursework in accordance with college policy and the department chair's approval.

Credits earned in the successful completion of Career Pathways Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their pathways certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement

Prerequisite Credits: 0-4

Required Courses

- WLD 111 - Industrial Welding I **6 Credit(s)**
- WLD 112 - Industrial Welding II **6 Credit(s)**
- WLD 113 - Industrial Welding III **6 Credit(s)**
- WLD 250C - Selected Topics in Welding SMAW **Var. (2-6) Credit(s)** (requirement for the SMAW Welder CPC is 3 credits for this course)
- Approved program electives **2-6 Credit(s)**

Total Program Credits: 23-27

Approved Program Electives

- WLD 250A - Selected Topics in Welding FCAW **Var. (2-6) Credit(s)**
- WLD 250B - Selected Topics in Welding GTAW **Var. (2-6) Credit(s)**
- WLD 250D - Selected Topics in Welding GMAW **Var. (2-6) Credit(s)**
- WLD 250F - Welding Capstone Project **Var. (2-6) Credit(s)**

For more information, contact the Industrial Welding Technology Department:

Phone: 541-956-7500

Email: WeldingInfo@roguecc.edu

Web address: www.roguecc.edu/Welding

TTY: Oregon Telecom Relay Service, 711

Welder's Helper

Career Pathway Certificate

About the Program

The Welder's Helper Career Pathways two-term certificate program is designed to recognize students' accomplishments in welding and prepare them for entry-level work experiences in the welding industry. Students will be prepared with mathematics skills and the understanding of skills necessary to be valuable employees in the industrial welding trades. Credit from this certificate will transfer to the one-year Certificate of Completion and/or the Associate of Applied Science degree in Industrial Welding Technology.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Industrial Welding Technology Welder's Helper Career Pathway Certificate are:

Demonstrate a commitment to a culture of safety.

Processes include oxy fuel cutting, plasma arc cutting, SMAW, GMAW and FCAW.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over ten years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements. High school College Now credit will be accepted in accordance with current agreement. Verified industry experience may be substituted for some coursework in accordance with college policy and the department chair's approval.

Credits earned in the successful completion of Career Pathways Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their pathways certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement

Total Prerequisites: 0-4

Required Courses

- MET 101 - Mechanical Drafting **3 Credit(s)**
- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or higher-level math
- WLD 111 - Industrial Welding I **6 Credit(s)**
- WLD 112 - Industrial Welding II **6 Credit(s)**
- WLD 113 - Industrial Welding III **6 Credit(s)**

Total Program Credits: 25

For more information, contact the Industrial Welding Technology Department:

Phone: 541-956-7500

Email: WeldingInfo@roguecc.edu

Web address: www.roguecc.edu/Welding

TTY: Oregon Telecom Relay Service, 711

Wire Welder

Career Pathway Certificate

About the Program

Gas Metal Arc Welding and Flux Cored Arc Welding are the two most common production welding forms in the United States. The Wire Welding CPC targets these forms of welding and brings a greater understanding of the requirements to weld carbon and stainless steel with these processes. All position welding with GMAW, Self-Shielded Flux Core and Gas Shielded Flux Core will take place. Students may train for the A.W.S. D1.1 welding qualification procedure if they choose to.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for Industrial Welding Technology Wire Welder Career Pathway Certificate are:

Demonstrate a commitment to a culture of safety.

Produce industry-quality welds using GMAW and FCAW on stainless steel and aluminum plate.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over ten years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements. High school College Now credit will be accepted in accordance with current agreement. Verified industry experience may be substituted for some coursework in accordance with college policy and the department chair's approval.

Credits earned in the successful completion of Career Pathways Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their pathways certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement

Total Prerequisites: 0-4

Required Courses

- WLD 111 - Industrial Welding I **6 Credit(s)**
- WLD 113 - Industrial Welding III **6 Credit(s)**
- WLD 211 - Industrial Welding IV **6 Credit(s)**
- WLD 250A - Selected Topics in Welding FCAW **Var. (2-6) Credit(s)** (requirement for the Wire Welder CPC is three credits for this course)
- WLD 250D - Selected Topics in Welding GMAW **Var. (2-6) Credit(s)** (requirement for the Wire Welder CPC is three credits for this course)

Total Program Credits: 24

For more information, contact the Industrial Welding Technology Department:

Phone: 541-956-7500

Email: WeldingInfo@roguecc.edu

Web address: www.roguecc.edu/Welding

TTY: Oregon Telecom Relay Service, 711

Automotive Specialist

Certificate of Completion

About the Program

The Automotive Specialist four-term certificate program is designed for students who wish to acquire basic technical training to enter minor automotive industry positions. Students who desire more in-depth industry training as automotive technicians and/or Automotive Service Excellence (ASE) training at all levels should enroll in the Associate of Applied Science degree program.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Automotive Technology Certificate of Completion are:

Diagnose, repair and document basic vehicle systems.

Effectively locate and utilize technical information required for vehicle repairs.

Work safely and responsibly within all shop standards and environmental guidelines

Apply employer expectations and ethical work practice.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Automotive Technology Department Chair's approval. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements. College Now credit will be accepted in accordance with current agreement. Verified Automotive Service Excellence (ASE) certification or industry experience may be substituted for some coursework in accordance with college policies and the department chair's approval.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note, some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 58-59

Program email address AutomotiveInfo@roguecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement

Prerequisite Credits: 0-4

Fall

Check in with Advisor

- AM 120 - Automotive Maintenance **2 Credit(s)**
- AM 120L - Automotive Maintenance Lab **4 Credit(s)**
- AM 122 - Gasoline Engines Rebuild **3 Credit(s)**
- AM 122L - Gasoline Engines Rebuild Lab **4 Credit(s)**
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term credits: 16-17

Winter

- AM 111 - Automotive Electricity **2 Credit(s)**
- AM 111L - Automotive Electricity Lab **4 Credit(s)**
- AM 131 - Engine Dynamics and Diagnosis **3 Credit(s)**
- AM 131L - Engine Dynamics and Diagnosis Lab **4 Credit(s)**

Term Credits: 13

Spring

- AM 141 - Manual Transmissions and Transaxles **3 Credit(s)**
- AM 141L - Manual Transmissions and Axles Lab **4 Credit(s)**
- AM 151 - Automotive Brake Systems **2 Credit(s)**
- AM 151L - Automotive Brake Systems Lab **4 Credit(s)**
- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or higher-level math

Term Credits: 17

Summer

Check in with Advisor

- AM 190L - Automotive Repair Lab I **4 Credit(s)**
- AM 270 - AC for Automotive Technicians **2 Credit(s)**
- AM 270L - AC for Automotive Technicians Lab **3 Credit(s)**
- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101

Term Credits: 12

For more information, contact the Automotive Technology Department:

Phone: 541-956-7500

Email: AutomotiveInfo@roquecc.edu

Web address: www.roquecc.edu/Automotive

TTY: Oregon Telecom Relay Service, 711

Diesel Specialist

Certificate of Completion

About the Program

The Diesel Specialist four-term certificate program is designed for students seeking an entry-level career in today's diesel repair industry. The program builds rapidly from fundamentals and theory into diagnosis and repair of today's modern equipment based upon Automotive Service Excellence (ASE) and industrial standards.

The design of the program places heavy emphasis upon actual hands-on work in diesel labs. Approximately two-thirds of the time spent in the program is in a lab (shop) environment where the student applies theory to diagnosis and repair of a wide variety of equipment. As students' skill levels develop so does the difficulty of repairs performed.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Diesel Technology Certificate of Completion are:

Demonstrate OSHA and industry safety standards.

Locate and utilize technical resources for diesel repairs.

Evaluate and diagnose truck systems (diesel engines, fuel systems, electrical systems).

Repair truck systems.

Perform maintenance on truck systems.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. College Now credit will be accepted in accordance with current agreement. Verified Automotive Service Excellence (ASE) certification or industry experience may be substituted for some coursework in accordance with college policy and the Department Chair's approval.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note, some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 43

Program email address DieselInfo@roquecc.edu

Fall

Check in with Advisor

- DS 111 - Basic Electricity Diesel I **3 Credit(s)**
- DS 120 - Diesel Practices **3 Credit(s)**
- DS 131 - Diesel Engine Dynamics - Diagnosis **4 Credit(s)**
- WLD 101 - Welding Fundamentals I **3 Credit(s)**

Term Credits: 13

Winter

- DS 141 - Heavy Equipment Power Trains **4 Credit(s)**
- DS 151 - Heavy Equipment Brakes **5 Credit(s)**
- DS 275 - Preventative Maintenance Inspection **4 Credit(s)**

Term Credits: 13

Spring

- DS 134 - Basic Electricity Diesel II **3 Credit(s)**
- DS 160 - Heavy Equip Suspension - Steering **5 Credit(s)**
- DS 232 - Heavy Equipment Fuel Systems **4 Credit(s)**

Term Credits: 12

Summer

Check in with Advisor

- DS 270 - AC for Diesel Technicians **5 Credit(s)**

Term Credits: 5

For more information, contact the Diesel Technology Department:

Phone: 541-956-7500

Email: DieselInfo@roquecc.edu

Web address: www.roquecc.edu/diesel

TTY: Oregon Telecom Relay Service, 711

High Technology Studies

Certificate of Completion

About the Program

The High Technology Studies four-term certificate program is designed to expand technical knowledge across a range of technical career areas. Students may specialize in a number of technology areas such as welding, manufacturing, machining, computer aided drafting, electronics, and/or computer science by selecting the appropriate technical electives.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the High Technology Studies Certificate of Completion are:

Identify and solve real-world problems through the application of applied theory and concepts in varied disciplines.

Use industry standard equipment and practices in a variety of disciplines.

Organize, interpret, and use technical information and documentation.

Communicate effectively across a variety of audiences: technicians, engineers, management and customers.

Function collaboratively as a member of a team to achieve specified and measurable results.

Demonstrate flexibility, adaptability, and time management skills commensurate with industry productivity needs.

Demonstrate the ability to adhere to personal and industry safety standards.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Manufacturing Technology Department chair's recommendation. In order to ensure that coursework is current, program courses over three years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Official transcripts must be filed with the Enrollment Services office and the Manufacturing Technology Department.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Total Program Credits: 49-51

Program email address: ManufacturingInfo@roguecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement
- CIS - Approved Computer Information Science or Computer Science course, CIS 120 / CS120 or above, or documented computer proficiency within the past ten years **0-2 Credit(s)**

Prerequisite Credits: 0-6

General Education Courses

Mathematics

(Additional math classes may be required as prerequisites to some technical electives.)

- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or higher-level math

Communication

(one course required)

- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement
- WR 121Z - Composition I **4 Credit(s)**

Health/First Aid

- HE 112 - Emergency First Aid **1 Credit(s)**

Human Relations

- PSY 101 - Psychology of Human Relations **3 Credit(s)** or BA 120

Total General Education Credits: 11-13

Technology Area Credits

(A minimum of 38 credits required.)

- AM 120 - Automotive Maintenance **2 Credit(s)**
- AM 120L - Automotive Maintenance Lab **4 Credit(s)**
- BA 169Z - Data Analysis Using Microsoft Excel **4 Credit(s)**
- CIS - Any computer applications course, CS/CIS125 or above **Var. Credit(s)**
- DDM 140 - Electronic Publishing I InDesign **3 Credit(s)**
- DDM 150 - Computer Illustration - Illustrator **3 Credit(s)**
- DDM 160 - Digital Imaging - Photoshop **3 Credit(s)**
- DDM 191 - Advanced Animation II **3 Credit(s)**
- DDM 226 - Advanced 3D Graphics Design II **3 Credit(s)**
- DS 111 - Basic Electricity Diesel I **3 Credit(s)**
- DS 120 - Diesel Practices **3 Credit(s)**
- DS 260 - Hydraulic Systems Heavy Equipment **3 Credit(s)**
- MET 101 - Mechanical Drafting **3 Credit(s)**
- MET 104 - Machine Shop Math **3 Credit(s)**
- MET 105 - Blueprint Reading - Mechanical **3 Credit(s)** or WLD 104
- MET 111 - CAD I Mechanical Autodesk Inventor **3 Credit(s)**
- MET 121 - CAD I Mechanical SolidWorks **3 Credit(s)**
- MET 122 - CAD II Mechanical SolidWorks **3 Credit(s)**
- MET 123 - CAD III Mechanical SolidWorks **3 Credit(s)**
- MET 160 - Introduction to Metallurgy **3 Credit(s)**
- MFG 101 - Introduction to Manufacturing **3 Credit(s)**
- MFG 121 - Machine Tool - Lathe I **4 Credit(s)**
- MFG 122 - Machine Tool - Mill I **4 Credit(s)**
- MFG 123 - Machine Tool - Lathe II **4 Credit(s)**

- MFG 140 - CNC Controls I **3 Credit(s)**
- MFG 220 - Machining Capstone **4 Credit(s)**
- MFG 230 - Statistics and Quality Control **3 Credit(s)**
- MFG 240 - Robotics and Computer Programming **3 Credit(s)**
- MFG 241 - CNC Programming - Mill - Haas **4 Credit(s)**
- MFG 242 - CAM I - Mastercam 2D **4 Credit(s)**
- MFG 243 - CAM II - Mastercam 3D **4 Credit(s)**
- MFG 244 - CNC Programming - Lathe - Haas **3 Credit(s)**
- MFG 255 - Computer Integrated Manufacturing **4 Credit(s)**
- MTH 65 - Fundamentals of Algebra II **4 Credit(s)**
- WLD 101 - Welding Fundamentals I **3 Credit(s)**
- WLD 102 - Welding Fundamentals II **3 Credit(s)**
- WLD 111 - Industrial Welding I **6 Credit(s)**
- WLD 112 - Industrial Welding II **6 Credit(s)**
- WLD 113 - Industrial Welding III **6 Credit(s)**
- WLD 211 - Industrial Welding IV **6 Credit(s)**
- WLD 212 - Industrial Welding V **6 Credit(s)**
- WLD 213 - Industrial Welding VI **6 Credit(s)**
- WLD 250A - Selected Topics in Welding FCAW **Var. (2-6) Credit(s)**
- WLD 250B - Selected Topics in Welding GTAW **Var. (2-6) Credit(s)**
- WLD 250C - Selected Topics in Welding SMAW **Var. (2-6) Credit(s)**
- WLD 250D - Selected Topics in Welding GMAW **Var. (2-6) Credit(s)**
- WLD 250F - Welding Capstone Project **Var. (2-6) Credit(s)**
- WLD 250P - Selected Topics CNC Plasma Cutting **3 Credit(s)**

Total Technology Area Credits: 38

For more information, contact the Manufacturing Technology Department.

Phone: 541-956-7500

Email: ManufacturingInfo@roquecc.edu

Web address: www.roquecc.edu/diesel

TTY: Oregon Telecom Relay Service, 711

Industrial Welding Technology

Certificate of Completion

About the Program

Upon completion of this three-term certificate program, students will be qualified to test for certification to the American Welding Society (AWS) D1.1-06 Structural Steel and the AWS D1.3-08 Sheet Steel Welding Codes. Additionally, students will have a good foundation in structural steel fitting/layout, the basics of pipefitting, and the basics of sheet metal pattern development. Students will also be prepared with mathematics and communication skills, and be knowledgeable about the human relations necessary to become valuable employees in the industrial welding trades.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Industrial Welding Technology Certificate of Completion are:

Demonstrate a commitment to a culture of safety.

Interpret and create mechanical blueprints to industry standards.

Layout and fabricate industry-quality fabrication projects.

Produce industry quality weldments on carbon steel plate in various positions and joint and groove configurations.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over ten years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements. College Now credit will be accepted in accordance with current agreement. Verified industry experience may be substituted for some coursework in accordance with college policy and the department chair's approval.

Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 36-40

Program email address: WeldingInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or MTH 102CT or higher-level math, or designated placement
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Term 1

Check in with Advisor

- HE 112 - Emergency First Aid **1 Credit(s)**
- MET 101 - Mechanical Drafting **3 Credit(s)**
- WLD 111 - Industrial Welding I **6 Credit(s)**
- WLD 250C - Selected Topics in Welding SMAW **Var. (2-6) Credit(s)** WLD250C is a variable credit course. Note: 2 to 6 credits of electives are required for program - or another approved program elective.

Term Credits: 13

Term 2

- WLD 104 - Blueprint Reading - Mechanical **3 Credit(s)**
- WLD 112 - Industrial Welding II **6 Credit(s)**
- WLD 221 - Codes - Procedures - Inspections **3 Credit(s)**

Term Credits: 12

Term 3

- WLD 113 - Industrial Welding III **6 Credit(s)**
- WLD 121 - Fabrication and Repair Practices I **5 Credit(s)**
- WLD 160 - AWS Certification Seminar - Plate **1 Credit(s)**
- WLD 250A - Selected Topics in Welding FCAW **Var. (2-6) Credit(s)** WLD250A is a variable credit course. Note: 2 to 6 credits of electives are required for program - or another approved program elective.

Term Credits: 15

Approved Program Electives

(2-6 credits required)

- BA 209 - Professional Workforce Preparation **2 Credit(s)**
- MET 121 - CAD I Mechanical SolidWorks **3 Credit(s)**
- MET 122 - CAD II Mechanical SolidWorks **3 Credit(s)**
- MET 123 - CAD III Mechanical SolidWorks **3 Credit(s)**
- MET 160 - Introduction to Metallurgy **3 Credit(s)**
- MFG 121 - Machine Tool - Lathe I **4 Credit(s)**
- MFG 122 - Machine Tool - Mill I **4 Credit(s)**
- MFG 123 - Machine Tool - Lathe II **4 Credit(s)**
- WLD 160 - AWS Certification Seminar - Plate **1 Credit(s)**
- WLD 250A - Selected Topics in Welding FCAW **Var. (2-6) Credit(s)** (variable credit course: 2-6 credits only required for this program)
- WLD 250B - Selected Topics in Welding GTAW **Var. (2-6) Credit(s)** (variable credit course: 2-6 credits only required for this program)
- WLD 250C - Selected Topics in Welding SMAW **Var. (2-6) Credit(s)** (variable credit course: 2-6 credits only required for this program)
- WLD 250D - Selected Topics in Welding GMAW **Var. (2-6) Credit(s)** (variable credit course: 2-6 credits only required for this program)
- WLD 250F - Welding Capstone Project **Var. (2-6) Credit(s)** (variable credit course: 2-6 credits only required for this program)
- WLD 260 - AWS Certification Seminar - Pipe **1 Credit(s)**

For more information, contact the Industrial Welding Technology Department:

Phone: 541-956-7500

Email: WeldingInfo@roguecc.edu

Web address: www.roguecc.edu/Welding

TTY: Oregon Telecom Relay Service, 711

Manual Machinist

Certificate of Completion

About the Program

This three-term certificate program prepares learners to join the manufacturing workforce with the basic skills needed to create tooling and mechanical parts related to industrial mechanics, automotive machinist, heavy equipment repair, gunsmithing as well as any industry where subtractive manufacturing is used. In addition to technical training, students receive a solid education in mathematics, blueprint reading, proper tool selection for the lathe, mill, drill press and both vertical and horizontal band saw applications. This program can lead you directly into RCC's Manufacturing Technology AAS degree program, where you will learn CNC operation and programming.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Manufacturing Technology Manual Machinist Certificate of Completion are:

Demonstrate personal and industry safety standards.

Operate manual mills and lathes to print specifications.

Interpret mechanical blueprints and troubleshoot manufacturing processes to meet industry standards.

Produce a machined product using proper tooling.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Manufacturing Technology Department Chair's recommendation. In order to ensure that coursework is current, program courses over four years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. Official transcripts must be filed with the Enrollment Services Office and the Manufacturing Technology Department.

Credits earned in the successful completion of Career Pathways Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 38

Program Email Address: ManufacturingInfo@roquecc.edu

Program Prerequisites:

- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or designated placement

Prerequisite Credits: 0-4

Term 1

- MET 104 - Machine Shop Math **3 Credit(s)**
- MET 105 - Blueprint Reading - Mechanical **3 Credit(s)**
- MFG 102 - Machine Shop Basics **3 Credit(s)**
- MFG 116 - Metrology **3 Credit(s)**
- MFG 118 - Introduction to Prototyping **1 Credit(s)**

Term Credits: 13

Term 2

- MET 160 - Introduction to Metallurgy **3 Credit(s)**
- MFG 121 - Machine Tool - Lathe I **4 Credit(s)**
- MFG 122 - Machine Tool - Mill I **4 Credit(s)**
- MFG 130 - Machine Shop Tooling **2 Credit(s)**

Term Credits: 13

Term 3

- MFG 123 - Machine Tool - Lathe II **4 Credit(s)**
- MFG 124 - Machine Tool - Mill II **4 Credit(s)**
- MFG 135 - Precision Grinding and Inspection **4 Credit(s)**

Term Credits: 12

For more information, contact the Manufacturing Technology Department:

Phone: 541-956-7500

Email: ManufacturingInfo@roquecc.edu

Web address: www.roquecc.edu/manufacturing

TTY: Oregon Telecom Relay Service, 711

Automotive Technology

Associate of Applied Science

About the Program

The Automotive Technology two-year degree program is designed for students seeking a career in today's automotive service industry. The program builds rapidly from fundamentals and theory into diagnosis and repair of today's modern automobiles based upon Automotive Service Excellence (ASE) standards.

The design of the program places heavy emphasis upon actual hands-on work in the automotive labs. Approximately two-thirds of the time spent in the program is in a lab (shop) environment where the student applies theory to diagnosis and repair of a wide variety of domestic and import automobiles. As the level of student skill develops, so does the difficulty of the repairs performed.

If students intend to transfer to Oregon Tech's Bachelor of Applied Science degree program, transfer courses should be chosen from the list of electives where possible. See an adviser for more information or visit Oregon Tech's agreements/articulations page.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Automotive Technology Associate of Applied Science are:

Diagnose, repair and document advanced vehicle systems.

Effectively locate and utilize technical information required for vehicle repairs.

Work safely and responsibly within all shop standards and environmental guidelines.

Apply employer expectations and ethical work practice.

Successfully pass at least four student-level Automotive Service Excellence (ASE) technical skill assessments.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. Students must also meet certain program requirements in the first and third terms, and complete any prerequisites before advancing in the program.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements. College Now credit will be accepted in accordance with current agreement. Verified Automotive Service Excellence (ASE) certification and industry experience may be substituted for some coursework in accordance with college policy and the department chair's approval.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note, some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 92-94

Program email address AutomotiveInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement

Prerequisite Credits: 0-4

Fall

Check in with Advisor

- AM 120 - Automotive Maintenance **2 Credit(s)**
- AM 120L - Automotive Maintenance Lab **4 Credit(s)**
- AM 122 - Gasoline Engines Rebuild **3 Credit(s)**
- AM 122L - Gasoline Engines Rebuild Lab **4 Credit(s)**
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term credits: 16-17

Winter

- AM 111 - Automotive Electricity **2 Credit(s)**
- AM 111L - Automotive Electricity Lab **4 Credit(s)**
- AM 131 - Engine Dynamics and Diagnosis **3 Credit(s)**
- AM 131L - Engine Dynamics and Diagnosis Lab **4 Credit(s)**

Term Credits: 13

Spring

- AM 141 - Manual Transmissions and Transaxles **3 Credit(s)**
- AM 141L - Manual Transmissions and Axles Lab **4 Credit(s)**
- AM 151 - Automotive Brake Systems **2 Credit(s)**
- AM 151L - Automotive Brake Systems Lab **4 Credit(s)**

Term credits: 13

Summer

Check in with Advisor

- AM 190L - Automotive Repair Lab I **4 Credit(s)**
- AM 270 - AC for Automotive Technicians **2 Credit(s)**
- AM 270L - AC for Automotive Technicians Lab **3 Credit(s)**

Term credits: 9

Fall

- AM 160 - Auto Suspension and Steering **2 Credit(s)**
- AM 160L - Auto Suspension and Steering Lab **4 Credit(s)**
- AM 232 - Computerized Engine Systems **3 Credit(s)**
- AM 232L - Computerized Engine Systems Lab **4 Credit(s)**

Term credits: 13

Winter

- AM 233 - Adv Auto Computer Systems **3 Credit(s)**
- AM 233L - Adv Auto Computer Systems Lab **4 Credit(s)**

- AM 242 - Automatic Transmissions-axles **3 Credit(s)**
- AM 242L - Automatic Transmissions-axles Lab **4 Credit(s)**

Term credits: 14

Spring

- AM 210 - Mechanical Careers Development **4 Credit(s)**
- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101
- AM 280 - CWE - Automotive **Var. (1-12) Credit(s)** or AM 290
- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or higher-level math

Term credits: 14

For more information, contact the Automotive Technology Department:

Phone: 541-956-7500

Email: AutomotiveInfo@roquecc.edu

Web address: www.roquecc.edu/Automotive

TTY: Oregon Telecom Relay Service, 711

Computer Support Technician

Associate of Applied Science

About the Program

The Computer Support Technician program is designed to prepare students for employment in computer support positions within an organization. It will also provide skills in computer hardware and software to meet the needs of an increasingly technical society.

Program Learning Outcomes:

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Computer Support Technician Associate of Applied Science are:

Recommends appropriate equipment acquisitions, maintenance, upgrade and life-cycling in the workplace.

Applies operating system and hardware concepts and principles to problem solving in the context of computer systems.

Applies standard business productivity software to support electronic projects.

Outlines basic troubleshooting processes and procedures from initial diagnosis to final documentation and reporting.

Develops technical documentation to support organizational needs to interact and communicate effectively.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies and the Computer Science Department Chair's approval. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with the department chair to determine placement.

Credits earned in the successful completion of this program can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive their degrees. Certain prerequisite and required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90-94

Program email address: ComputerScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- CIS 120 - Concepts in Computing I **2 Credit(s)** ¹ Required for graduation.
- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-10

Fall

Check in with Advisor

- CIS 145 - Introduction to Hardware - Software **5 Credit(s)**
- MTH 96 - Applied Algebra II **4 Credit(s)** or MTH 65 or higher-level math
- WR 121Z - Composition I **4 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**

Term Credits: 16

Winter

- CIS 179 - Introduction to Networks **4 Credit(s)**
- BT 178 - Customer Service **3 Credit(s)** winter/summer only
- COMM 225 - Small Group Communication **4 Credit(s)** or COMM 111Z or COMM 218Z (2 COMM courses required for program) - COMM 225 offered winter term only
- WR 227Z - Technical Writing **4 Credit(s)** or WR 122Z

Term Credits: 15

Spring

- BT 168 - Advanced Applications - Word **3 Credit(s)**
- CIS 125V - Advanced Applications - Visio **1 Credit(s)** spring term only
- CIS 240 - Advanced Operating Systems **4 Credit(s)**
- CIS 285 - Network Security II **4 Credit(s)** or approved program elective
- COMM 218Z - Interpersonal Communication **4 Credit(s)** or COMM 111Z (2 COMM courses required for program)

Term Credits: 16

Fall

- BA 101Z - Introduction to Business **4 Credit(s)**
- BA 169Z - Data Analysis Using Microsoft Excel **4 Credit(s)**
- CIS 125DB - Advanced Applications - Access **3 Credit(s)**
- CIS 125PT - Advanced Applications - PowerPoint **2 Credit(s)** fall term only
- HE 250 - Personal Health **3 Credit(s)** HE 112, HE 252, HE 261 or HPE 295

Term Credits: 16

Winter

- CIS 225 - Computer End-User Support I **4 Credit(s)** winter term only
- CS 133C - Programming Using C Sharp **4 Credit(s)** winter term only or CS 160 (Fall/Spring term only) or CS 161U (Fall term only) or programming language course
- CIS 284 - Network Security Fundamentals **4 Credit(s)**
- CIS 281 - Advanced Server Environments **4 Credit(s)**

Term Credits: 16

Spring

- CIS 240LX - Advanced Operating Systems - Linux **4 Credit(s)**
- CIS 279 - Network Operating Systems **4 Credit(s)**
- CS 275 - Data Base Development I **4 Credit(s)** or SOC 237 or other program elective; CS 275 offered spring term only

- CIS 282 - Help Desk Internship **3 Credit(s)** or CIS 280 (3 credits of CIS 280)

Term Credits: 15

Approved Program Electives

(4-8 credits required as needed to complete program minimum required credits.)

- BA 209 - Professional Workforce Preparation **2 Credit(s)**
 - CIS 280 - CWE - Computer Information Sciences **Var. (1-12) Credit(s)**
 - CIS 285 - Network Security II **4 Credit(s)**
 - CS 133C - Programming Using C Sharp **4 Credit(s)**
 - CS 160 - Introduction to Computer Science **4 Credit(s)**
 - CS 161U - Computer Science I - C++ **4 Credit(s)**
 - CS 162U - Computer Science II - C++ **4 Credit(s)**
 - CS 275 - Data Base Development I **4 Credit(s)**
- MTH - Any math course(s) MTH 105Z or higher (variable credits)
- SOC 237 - Comm and Relationships and Tech **4 Credit(s)**

Notes:

¹ Approved Computer Information Science or Computer Science class, CIS 120 or above, or documented computer proficiency within the past ten years.

For more information, contact the Computer Science Department:

Phone: 541-956-7500

Email: ComputerScienceInfo@roguecc.edu

Web address: www.roguecc.edu/computerscience

TTY: Oregon Telecom Relay Service, 711

Diesel Technology

Associate of Applied Science

About the Program

The Diesel Technology Associate of Applied Science degree program is designed for students seeking a career in today's diesel repair industry. The program builds rapidly from fundamentals and theory into diagnosis and repair of today's modern equipment based upon Automotive Service Excellence (ASE) and industrial standards.

The design of the program places heavy emphasis upon actual hands-on work in diesel labs. Approximately two-thirds of the time spent in the program is in a lab (shop) environment where the student applies theory to diagnosis and repair of a wide variety of equipment. As students' skill levels develop, so does the difficulty of repairs performed.

If students intend to transfer to either SOU's or Oregon Tech's [Bachelor of Applied Science degree program](#), transfer courses should be chosen from the list of electives where possible. See an advisor for more information or visit [SOU's Degree Completion](#) page.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Diesel Technology Associate of Applied Science are:

Demonstrate OSHA and industry safety standards.

Locate and utilize technical resources for diesel repairs.

Evaluate and diagnose truck systems (diesel engines, fuel systems, electrical systems).

Repair truck systems.

Perform maintenance on truck systems.

Diagnose, maintain, and repair advanced truck systems.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements. College Now credit will be accepted in accordance with current agreement. Verified Automotive Service Excellence (ASE) certification or industry experience may be substituted for some coursework in accordance with college policy and the department chair's approval.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note, some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90-91

Program Email Address: DieselInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement

Prerequisite Credits: 0-4

Fall

Check in with Advisor

- DS 111 - Basic Electricity Diesel I **3 Credit(s)**
- DS 120 - Diesel Practices **3 Credit(s)**
- DS 131 - Diesel Engine Dynamics - Diagnosis **4 Credit(s)**
- WLD 101 - Welding Fundamentals I **3 Credit(s)** WLD 111D is equivalent to WLD 101 and WLD 102

Term Credits: 13

Winter

- DS 141 - Heavy Equipment Power Trains **4 Credit(s)**

- DS 151 - Heavy Equipment Brakes **5 Credit(s)**
- DS 275 - Preventative Maintenance Inspection **4 Credit(s)**

Term Credits: 13

Spring

- DS 134 - Basic Electricity Diesel II **3 Credit(s)**
- DS 160 - Heavy Equip Suspension - Steering **5 Credit(s)**
- DS 232 - Heavy Equipment Fuel Systems **4 Credit(s)**
- WLD 102 - Welding Fundamentals II **3 Credit(s)** WLD 111D is equivalent to WLD 101 and WLD 102

Term Credits: 15

Summer

Check in with Advisor

- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101
- DS 270 - AC for Diesel Technicians **5 Credit(s)** summer term only

Term Credits: 8

Fall

- DS 113 - Diesel Engine Overhaul **6 Credit(s)**
- DS 233 - Computerized Vehicle Mgmt Systems **4 Credit(s)**
- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or higher-level math

Term Credits: 14

Winter

- DS 132 - HD Aftertreatment Systems **4 Credit(s)**
- DS 260 - Hydraulic Systems Heavy Equipment **3 Credit(s)**
- WLD 250D - Selected Topics in Welding GMAW **Var. (2-6) Credit(s) (WLD250D must be at least 3 credits)** or SPAN 101 or approved program elective (credits vary)
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term Credits: 13

Spring

- DS 280 - CWE - Diesel **Var. (1-12) Credit(s)** (Three credits required for graduation.)
- DS 290 - Diesel Repair Lab **3 Credit(s)** or MFG 121 or approved program elective (credits vary) - Check in with advisor
- HE 112 - Emergency First Aid **1 Credit(s)** or HE 261
- BA 209 - Professional Workforce Preparation **2 Credit(s)** or approved program elective (credits vary)

Term Credits:11

Approved Program Electives

Complete a sufficient number of electives from the list below (12-13 credits) in order to complete a minimum total of 90 program credits.

- AM 190L - Automotive Repair Lab I **4 Credit(s)**
- BA 209 - Professional Workforce Preparation **2 Credit(s)**
- BT 111 - Conflict Management **2 Credit(s)**
- BT 123 - Introduction to Supervision **3 Credit(s)**
- BT 250 - Entrepreneurship **3 Credit(s)**
- DS 199 - Special Studies - Diesel **Var. (1-6) Credit(s)**
- DS 290 - Diesel Repair Lab **3 Credit(s)**
- GS 104 - Physical Science - Physics **3 Credit(s)** **AND** GS 104L
- MFG 116 - Metrology **3 Credit(s)**
- MFG 121 - Machine Tool - Lathe I **4 Credit(s)**
- MFG 199 - Special Studies - Manufacturing **Var. (1-3) Credit(s)**
- MTH 65 - Fundamentals of Algebra II **4 Credit(s)** or higher-level math
- SPAN 101 - First Year Spanish I **4 Credit(s)**
- WLD 111 - Industrial Welding I **6 Credit(s)**
- WLD 112 - Industrial Welding II **6 Credit(s)**
- WLD 113 - Industrial Welding III **6 Credit(s)**
- WLD 250D - Selected Topics in Welding GMAW **Var. (2-6) Credit(s)**
- Any college-level (100 or 200 numbered) transferable non-studio humanities, social science, or science electives

For more information, contact the Diesel Technology Department:

Phone: 541-956-7500

Email: DieselInfo@roguecc.edu

Web address: www.roguecc.edu/diesel

TTY: Oregon Telecom Relay Service, 711

Industrial Welding Technology

Associate of Applied Science

About the Program

The Associate of Applied Science degree in Industrial Welding Technology is designed for students whose goals are to enter the job market as entry-level welders/fabricators. Upon completing the program, students will be qualified to test for certification to the American Welding Society (AWS) D1.1-06 Structural Steel Welding Codes and the AWS D1.3-08 Sheet Steel Welding Code. Students would also be able to test to certify as pipe welders to the American Society of Mechanical Engineers (ASME) Section IX Welding Code, and as Level I Entry Level and Level II Advanced Level Welder by the AWS EG2.0 and 3.0 welder training programs.

Additionally, students will have a good foundation in structural steel layout, pipefitting, and sheet metal pattern development. Students will also be prepared with mathematics and communication skills and be knowledgeable of the human relations skills necessary to become valuable employees in the industrial welding field.

If students intend to transfer to SOU's Bachelor of Applied Science degree program, transfer courses should be chosen from the list of electives where possible. See an advisor for more information or visit SOU's Degree Completion page.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Industrial Welding Technology Associate of Applied Science are:

Demonstrate a commitment to a culture of safety.

Interpret and create mechanical blueprints to industry standards.

Layout and fabricate industry-quality fabrication projects.

Produce industry quality cuts and weldments on carbon steel plate and pipe in various positions and joint and groove configurations.

Produce industry-quality welds using various welding processes on stainless steel and aluminum plate.

Develop a sequence of steps to foresee, troubleshoot, and resolve mechanical and process issues that arise in the workplace.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over ten years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements. College Now credit will be accepted in accordance with current agreement. Verified industry experience may be substituted for some coursework in accordance with college policy and the department chair's approval.

Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90-91

Program email address: WeldingInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or higher-level math, or designated placement

Prerequisite Credits: 0-4

Fall

Check in with Advisor

- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or higher-level math course
- MET 101 - Mechanical Drafting **3 Credit(s)**
- WLD 111 - Industrial Welding I **6 Credit(s)**
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term credits: 16-17

Winter

- WLD 104 - Blueprint Reading - Mechanical **3 Credit(s)** or WLD 105
- WLD 112 - Industrial Welding II **6 Credit(s)**
- WLD 121 - Fabrication and Repair Practices I **5 Credit(s)** winter term only

Term Credits: 14

Spring

- HE 112 - Emergency First Aid **1 Credit(s)**
- WLD 113 - Industrial Welding III **6 Credit(s)**
- WLD 122 - Fabrication and Repair Practices II **5 Credit(s)** spring term only
- WLD 160 - AWS Certification Seminar - Plate **1 Credit(s)**

Term Credits: 13

Fall

Check in with Advisor

- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101
- WLD 211 - Industrial Welding IV **6 Credit(s)**
- WLD 220 - Machine Tool Maintenance and Repair **3 Credit(s)** fall term only
- WLD 221 - Codes - Procedures - Inspections **3 Credit(s)** fall term only

Term Credits: 15

Winter

- MFG 121 - Machine Tool - Lathe I **4 Credit(s)**
- WLD 212 - Industrial Welding V **6 Credit(s)**
- WLD 250A - Selected Topics in Welding FCAW **Var. (2-6) Credit(s)** or approved program elective (credits vary)
- WLD 250C - Selected Topics in Welding SMAW **Var. (2-6) Credit(s)** or approved program elective (credits vary)

Term Credits: 16

Spring

- WLD 213 - Industrial Welding VI **6 Credit(s)**

- WLD 250F - Welding Capstone Project **Var. (2-6) Credit(s)** or approved program elective (credits vary)
- WLD 250P - Selected Topics CNC Plasma Cutting **3 Credit(s)**
- WLD 280 - CWE - Welding **Var. (1-12) Credit(s)** or WLD 250F

Term Credits: 15

Approved Program Electives

(9-10 credits as needed to meet program minimum credit requirements)

- BA 209 - Professional Workforce Preparation **2 Credit(s)**
- DS 260 - Hydraulic Systems Heavy Equipment **3 Credit(s)**
- MET 121 - CAD I Mechanical SolidWorks **3 Credit(s)**
- MET 122 - CAD II Mechanical SolidWorks **3 Credit(s)**
- MET 123 - CAD III Mechanical SolidWorks **3 Credit(s)**
- MET 160 - Introduction to Metallurgy **3 Credit(s)**
- WLD 165 - Welded Sculpture I **4 Credit(s)**
- WLD 166 - Welded Sculpture II **4 Credit(s)**
- MFG 122 - Machine Tool - Mill I **4 Credit(s)**
- MFG 123 - Machine Tool - Lathe II **4 Credit(s)**
- MFG 291 - Laser Cutting and Engraving **3 Credit(s)**
- WLD 111D - Industrial Welding for Diesel **6 Credit(s)**
- WLD 111M - Industrial Manufacturing Welding **6 Credit(s)**
- WLD 160 - AWS Certification Seminar - Plate **1 Credit(s)**
- WLD 199 - Special Studies - Welding **Var. (1-4) Credit(s)**
- WLD 199LL - Special Studies - Welding **Var. (1-4) Credit(s)**
- WLD 250A - Selected Topics in Welding FCAW **Var. (2-6) Credit(s)**
- WLD 250B - Selected Topics in Welding GTAW **Var. (2-6) Credit(s)**
- WLD 250C - Selected Topics in Welding SMAW **Var. (2-6) Credit(s)**
- WLD 250D - Selected Topics in Welding GMAW **Var. (2-6) Credit(s)**
- WLD 250F - Welding Capstone Project **Var. (2-6) Credit(s)**
- WLD 250P - Selected Topics CNC Plasma Cutting **3 Credit(s)**

- WLD 260 - AWS Certification Seminar - Pipe **1 Credit(s)**

For more information, contact the Industrial Welding Technology Department:

Phone: 541-956-7500

Email: WeldingInfo@roguecc.edu

Web address: www.roguecc.edu/Welding

TTY: Oregon Telecom Relay Service, 711

Manufacturing Technology

Associate of Applied Science

About the Program

This two-year program integrates conventional manufacturing techniques with computer integrated manufacturing skills. Computer aided drafting (CAD) and computer aided manufacturing (CAM) are used as basic tools in the manufacturing process. In addition to technical training, students receive a solid education in mathematics and physical science, along with human relations and computer skills courses.

Graduates typically enter the workforce as computer aided design drafters, entry-level machinists, or computer numerical control (CNC) machine operators or engineering assistants. With additional on-the-job experience, this training facilitates movement into fields such as tool and die maker, quality control inspector, computer aided manufacturing (CAM) programmer, or lower-level supervisory positions.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Manufacturing Technology Associate of Applied Science program are:

Demonstrate personal and industry safety standards.

Operate CNC machines, manual mills and lathes to print specifications.

Interpret mechanical blueprints and troubleshoot manufacturing processes to meet industry standards.

Produce a machined product using proper tooling.

Generate CNC tool paths using software.

Use CAD software to create designs that meet drafting standards.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with the Manufacturing Technology Department Chair's recommendation. In order to ensure that coursework is current, program courses over four years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. Students must complete coursework in their major at a "C-" or better level before proceeding to advanced coursework. Each College Now credit student must meet with the program coordinator to determine placement.

Credits earned in the successful completion of Career Pathway Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

Students are required to complete all courses in this program with a grade of "C-" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please meet with an advisor for any questions about alternate courses in a given term.

Total Program Credits: 90-92

Program email address: ManufacturingInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement

Prerequisite Credits: 0-4

Term 1

Check in with Advisor

- MET 101 - Mechanical Drafting **3 Credit(s)**
- MFG 101 - Introduction to Manufacturing **3 Credit(s)**
- MFG 102 - Machine Shop Basics **3 Credit(s)**
- MFG 116 - Metrology **3 Credit(s)**
- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or higher-level math

Term Credits: 15

Term 2

- MET 105 - Blueprint Reading - Mechanical **3 Credit(s)**
- MET 111 - CAD I Mechanical Autodesk Inventor **3 Credit(s)**
- MET 121 - CAD I Mechanical SolidWorks **3 Credit(s)**
- MET 160 - Introduction to Metallurgy **3 Credit(s)**
- MFG 121 - Machine Tool - Lathe I **4 Credit(s)**

Term Credits: 16

Term 3

- MET 112 - CAD II Mechanical Autodesk Inventor **3 Credit(s)**
- MET 122 - CAD II Mechanical SolidWorks **3 Credit(s)**
- MFG 118 - Introduction to Prototyping **1 Credit(s)**
- MFG 122 - Machine Tool - Mill I **4 Credit(s)**
- MFG 130 - Machine Shop Tooling **2 Credit(s)**
- MFG 140 - CNC Controls I **3 Credit(s)**

Term Credits: 16

Term 4

Check in with Advisor

- MET 104 - Machine Shop Math **3 Credit(s)**
- MFG 123 - Machine Tool - Lathe II **4 Credit(s)**
- MFG 124 - Machine Tool - Mill II **4 Credit(s)**
- MFG 241 - CNC Programming - Mill - Haas **4 Credit(s)**

Term Credits: 15

Term 5

- MFG 242 - CAM I - Mastercam 2D **4 Credit(s)**
- WLD 111M - Industrial Manufacturing Welding **6 Credit(s)**
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term Credits: 13-14

Term 6

- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101
- HE 112 - Emergency First Aid **1 Credit(s)**
- MFG 220 - Machining Capstone **4 Credit(s)**
- MFG 243 - CAM II - Mastercam 3D **4 Credit(s)** or approved elective
- MFG 280 - CWE - Manufacturing Technology **Var. (1-12) Credit(s)**

Term Credits: 15

Approved Program Electives

(complete 3 - 4 credits)

- CIS 120 - Concepts in Computing I **2 Credit(s)**
- CIS 179 - Introduction to Networks **4 Credit(s)**
- CIS 240 - Advanced Operating Systems **4 Credit(s)**
- CS 162U - Computer Science II - C++ **4 Credit(s)**
- ENGR 211 - Statics **4 Credit(s)**
- ENGR 213 - Strength of Materials **4 Credit(s)**
- GS 104 - Physical Science - Physics **3 Credit(s)** and GS 104L
- MET 113 - CAD III Mech Autodesk Inventor **3 Credit(s)**
- MET 123 - CAD III Mechanical SolidWorks **3 Credit(s)**
- MFG 135 - Precision Grinding and Inspection **4 Credit(s)**
- MFG 141 - CNC Controls II **3 Credit(s)**
- MFG 199 - Special Studies - Manufacturing **Var. (1-3) Credit(s)**
- MFG 210 - AC DC Electrical Systems **3 Credit(s)**
- MFG 215 - Electrical Control Systems - Sensors **3 Credit(s)**
- MFG 240 - Robotics and Computer Programming **3 Credit(s)**
- MFG 243 - CAM II - Mastercam 3D **4 Credit(s)**
- MFG 244 - CNC Programming - Lathe - Haas **3 Credit(s)**
- MFG 291 - Laser Cutting and Engraving **3 Credit(s)**
- WLD 101 - Welding Fundamentals I **3 Credit(s)**

- WLD 102 - Welding Fundamentals II **3 Credit(s)** (if not taken as a core requirement)
- WLD 250P - Selected Topics CNC Plasma Cutting **3 Credit(s)**

For more information, contact the Manufacturing Technology Department:

Phone: 541-956-7500

Email: ManufacturingInfo@roguecc.edu

Web address: www.roguecc.edu/manufacturing

TTY: Oregon Telecom Relay Service, 711

Arts, Humanities, Communication Pathway

Adobe® Applications Technician

Career Pathway Certificate

About the Program

The Adobe® Applications Technician Career Pathway Certificate prepares students for work in entry-level positions in the graphic design industry where a working knowledge of Adobe® Creative Cloud applications is required. Courses can be applied to the one-year Design and Digital Media certificate and the Associate of Applied Science (AAS) degree in Design and Digital Media. The AAS is designed to prepare students for employment in various design-related industries and fields, including Web design, graphic design, publishing, advertising, media/printing/editing, or to begin careers as freelance designers.

Program Learning Outcomes

Students who are interested in becoming an Adobe Certified Expert (ACE) can begin by earning the Adobe® Applications Technician Certificate.

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Students completing the Design and Digital Media: Adobe® Applications Technician Career Pathway Certificate will be able to:

Create a professionally designed portfolio using appropriate digital media tools.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies and the Visual Art and Design Department Chair's approval. In order to ensure that coursework is current, program courses over ten years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with the department chair to determine placement.

Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive a Career Pathways certificate in Adobe® Applications Technician. Certain prerequisite and

required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Prerequisites

- CIS - Approved Computer Information Science or Computer Science course, **0-2 Credit(s)** CIS 120 / CS120 or above, or documented computer proficiency within the past ten years

Total Prerequisite Credits: 0-2

Required Courses

- DDM 140 - Electronic Publishing I InDesign **3 Credit(s)**
- DDM 150 - Computer Illustration - Illustrator **3 Credit(s)**
- DDM 160 - Digital Imaging - Photoshop **3 Credit(s)**
- DDM 185 - Intro to Digital Video - Premiere **3 Credit(s)**
- DDM 190 - Intro to Animation Adobe® Animate **3 Credit(s)** ¹ or DDM 170 ²

Total Program Credits: 15

Notes:

¹ Winter term only offering.

² Spring term only offering; prerequisites DDM 150, DDM 160.

For more information, contact the Visual Arts and Design Department:

Phone: 541-956-7500

Email: VisualArtsandDesignInfo@roquecc.edu

Web address: www.roquecc.edu/vad

TTY: Oregon Telecom Relay Service, 711

Social Media Technician

Career Pathway Certificate

About the Program

The Social Media Technician Career Pathway Certificate prepares students for work in entry-level positions in the social media industry where a working knowledge of Social Media Design applications and skills is required. Courses can be applied to the one-year Design and Digital Media certificate and the Associate of Applied Science (AAS) degree in Design and Digital Media. The AAS is designed to prepare students for employment in various design-related industries and fields, including Web design, graphic design, publishing, advertising, media/printing/editing, or begin careers as freelance designers.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Students completing their Design and Digital Media Social Media Technician Career Pathway Certificate will be able to:

Create varied visual concepts in response to communication problems.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies and the Visual Arts and Design Department Chair's approval. In order to ensure that coursework is current, program courses over ten years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with the department chair to determine placement.

Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive a Career Pathways certificate in Social Media Technician. Certain prerequisite and required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Prerequisites

- CIS - Approved Computer Information Science or Computer Science course, **0-2 Credit(s)** CIS 120 / CS120 or above, or documented computer proficiency within the past ten years
- WR 121Z - Composition I **4 Credit(s)** or higher-level composition course

Total Prerequisite Credits: 0-6

Required Courses

- BA 243 - Social Media Marketing **3 Credit(s)** ¹ or BA 223
- DDM 120 - Digital Graphic Design I **3 Credit(s)** ²
- DDM 130 - Introduction to Adobe Web Tools **3 Credit(s)**
- DDM 160 - Digital Imaging - Photoshop **3 Credit(s)**
- DDM 231 - Content Management Systems **3 Credit(s)** ³

Total Program Credits: 15

Notes:

¹ Prerequisite WR 121Z

² Fall and winter terms only.

³ Fall term only.

For more information, contact the Visual Arts and Design Department:

Phone: 541-956-7500

Email: VisualArtsandDesignInfo@roquecc.edu

Web address: www.roquecc.edu/vad

TTY: Oregon Telecom Relay Service, 711

UI-UX Technician

Career Pathway Certificate

About the Program

The UI-UX Technician Career Pathway Certificate prepares students for work in entry-level positions in the interactive design industry where a working knowledge of Web Development applications and skills is required. Courses can be applied to the two-year Associate of Applied Science (AAS) degree in Design and Digital Media. The degrees are designed to prepare students for employment in various design-related industries and fields, including Web design, graphic design, publishing, advertising, media/printing/editing, or begin careers as freelance designers.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Students completing the Design and Digital Media UI-UX Technician Career Pathway Certificate will be able to:

Apply the necessary skills to assist with the design process.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies and the Visual Arts and Design Department Chair's approval. In order to ensure that coursework is current, program courses over ten years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with the department chair to determine placement.

Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive a Career Pathways certificate in UI-UX Technician. Certain prerequisite and required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Prerequisites

- CIS - Approved Computer Information Science or Computer Science course, **0-2 Credit(s)** CIS 120 / CS120 or above, or documented computer proficiency within the past ten years
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Total Prerequisite Credits: 0-10

Required Courses

- CIS 195 - Web Authoring I **4 Credit(s)** ¹
- DDM 120 - Digital Graphic Design I **3 Credit(s)** ²
- DDM 130 - Introduction to Adobe Web Tools **3 Credit(s)**
- DDM 160 - Digital Imaging - Photoshop **3 Credit(s)**
- DDM 231 - Content Management Systems **3 Credit(s)** ³

Total Program Credits: 16

Notes:

¹ WR 121Z is a co-requisite for CIS 195.

² Fall and winter terms offering only.

³ Fall term only.

For more information, contact the Visual Arts and Design Department:

Phone: 541-956-7500

Email: VisualArtsandDesignInfo@roquecc.edu

Web address: www.roquecc.edu/vad

TTY: Oregon Telecom Relay Service, 711

Video Production Technician

Career Pathway Certificate

About the Program

The Video Production Technician Career Pathway Certificate prepares students for work in entry-level positions in the film industry where a working knowledge of Video Production applications and skills is required. Courses can be applied to the Associate of Applied Science (AAS) degree in Design and Digital Media. The AAS is designed to prepare students for employment in various related industries and fields, including interactive design, film, publishing, advertising, media/printing/editing, or to begin careers as freelance editors.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Students completing their Design and Digital Media Video Production Technician Career Pathway Certificate will be able to:

Organize video projects and work productively in teams.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies and the Visual Arts and Design Department Chair's approval. In order to ensure that coursework is current, program courses over ten years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with the department chair to determine placement.

Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive a Career Pathways certificate in Video Production Technician. Certain prerequisite and required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Prerequisites

- CIS - Approved Computer Information Science or Computer Science course, **0-2 Credit(s)** CIS 120 / CS120 or above, or documented computer proficiency within the past ten years

Total Prerequisite Credits: 0-2

Required Courses

- DDM 125 - Digital Photography **3 Credit(s)**
- DDM 160 - Digital Imaging - Photoshop **3 Credit(s)**
- DDM 170 - Motion Graphics - After Effects **3 Credit(s)**
- DDM 185 - Intro to Digital Video - Premiere **3 Credit(s)**
- DDM 186 - Advanced Digital Video **3 Credit(s)**

Total Program Credits: 15

For more information, contact the Visual Arts and Design Department:

Phone: 541-956-7500

Email: VisualArtsandDesignInfo@roquecc.edu

Web address: www.roquecc.edu/vad

TTY: Oregon Telecom Relay Service, 711

Design and Digital Media

Certificate of Completion

About the Program

The Design and Digital Media three-term certificate program is designed to give students a solid foundation in layout/design concepts and computer graphics applications for print and web. These include desktop publishing, graphic illustration, digital imaging, and web page design. Students will also receive instruction in computer fundamentals including terminology, software use, hardware configuration, and operating systems.

All courses in the program have high academic standards and serve dual purposes: They prepare students for careers or serve as a vehicle for those wishing to learn specific skills. Courses can be applied to the two-year Associate of Applied Science (AAS) degree in Design and Digital Media as well as the Associate of Science (AS) degree in Emerging Media and Digital Arts transfer to SOU.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Students completing the one-year certificate in Design and Digital Media Certificate of Completion will be able to:

Apply the principles of art and necessary skills to assist with the design process.

Create varied visual concepts in response to communication problems.

Create a professionally designed portfolio using appropriate digital media tools.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Visual Art and Design Department Chair's approval. In order to ensure that coursework is current, program courses over ten years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with the department chair to determine placement.

Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

Students completing the credits in the program with a grade of "C-" or better will receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade. Credits earned in this program can be applied to the Associate of Applied Science degree.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 47

Program email address: VisualArtsandDesignInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or WR 117 or higher-level writing course, or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-10

Fall

Check in with Advisor

- ART 115 - Basic Design - Composition **3 Credit(s)**
- DDM 120 - Digital Graphic Design I **3 Credit(s)** fall/winter terms only
- DDM 140 - Electronic Publishing I InDesign **3 Credit(s)**
- DDM 160 - Digital Imaging - Photoshop **3 Credit(s)**
- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or higher-level math

Term Credits: 16

Winter

- ART 116 - Basic Design - Color Theory **3 Credit(s)**
- ART 131 - Introduction to Drawing - Value **3 Credit(s)** or ART 222 or ART 237 (ART 222 can substitute for ART 131 or ART 234 in spring term)
- DDM 141 - Electronic Publishing II InDesign **3 Credit(s)** winter term only

- DDM 150 - Computer Illustration - Illustrator **3 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 16

Spring

- ART 234 - Figure Drawing I **3 Credit(s)** or ART 222 (ART 222 can substitute for ART 234 or ART 131 in winter term)
- DDM 130 - Introduction to Adobe Web Tools **3 Credit(s)** spring term only
- DDM 220 - Digital Graphic Design II **3 Credit(s)** spring term only
- DDM 221 - Production Graphics **3 Credit(s)** spring term only
- PSY 101 - Psychology of Human Relations **3 Credit(s)** or BA 120

Term Credits: 15

For more information, contact the Visual Arts and Design Department:

Phone: 541-956-7500

Email: VisualArtsandDesignInfo@roguecc.edu

Web address: www.roguecc.edu/vad

TTY: Oregon Telecom Relay Service, 711

Design and Digital Media

Associate of Applied Science

About the Program

This program is for students interested in visual communication and digital arts and prepares them for entry-level employment in graphic design, web design and advertising design positions within organizations. Courses cover principles of design, creative problem solving, art/design history, drawing, typography, and portfolio building. With core instruction based in aesthetic concepts and computer graphics applications, students learn to develop and integrate strong design technique with computer skill sets. These include instruction in digital imaging, graphic illustration, publication design, and web authoring, as well as opportunities for instruction in video production, social media, 3D modeling, digital animation and digital photography. RCC and the Pacific Northwest College of Art have signed a transfer agreement pertaining to the Digital Media AAS program. For more information, contact your RCC Advisor.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Students completing the Design and Digital Media Associate of Applied Science will be able to:

Apply the principles of art and necessary skills to assist with the design process.

Create varied visual concepts in response to communication problems.

Create a professionally designed portfolio using appropriate digital media tools.

Organize, implement, and evaluate design projects.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Visual Arts and Design Department Chair's approval. In order to ensure that coursework is current, program courses over ten years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with the department chair to determine placement.

If students intend to transfer to SOU's Bachelor of Applied Science degree program, transfer courses should be chosen from the list of electives where possible. See an advisor for more information or visit SOU's Degree Completion page.

Graduation Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive their degrees. Certain prerequisite and required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some pre-requisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 91-92

Program email address: VisualArtsandDesignInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or WR 117 or higher-level writing course, or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Fall

Check in with Advisor

- ART 115 - Basic Design - Composition **3 Credit(s)**
- DDM 120 - Digital Graphic Design I **3 Credit(s)** fall/winter terms only
- DDM 150 - Computer Illustration - Illustrator **3 Credit(s)**
- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or higher-level math
- PRD 101 - Intro to Podcasting - Radio **3 Credit(s)** or approved program elective (credits vary)

Term Credits: 13

Winter

- ART 116 - Basic Design - Color Theory **3 Credit(s)**
- DDM 140 - Electronic Publishing I InDesign **3 Credit(s)**
- DDM 160 - Digital Imaging - Photoshop **3 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 13

Spring

- ART 131 - Introduction to Drawing - Value **3 Credit(s)** or approved program elective (credits vary)
- DDM 125 - Digital Photography **3 Credit(s)** or approved program elective (credits vary)
- DDM 130 - Introduction to Adobe Web Tools **3 Credit(s)**
- DDM 220 - Digital Graphic Design II **3 Credit(s)** spring term only
- DDM 221 - Production Graphics **3 Credit(s)** spring term only

Term Credits: 15

Fall

Check in with Advisor

- ART 222 - Graphic Design - Typography **3 Credit(s)**
- DDM 185 - Intro to Digital Video - Premiere **3 Credit(s)** or approved program elective (credits vary)
- DDM 200 - Survey of Design and Film History **3 Credit(s)** fall term only
- DDM 223 - Digital Graphic Design III **3 Credit(s)** fall term only
- DDM 231 - Content Management Systems **3 Credit(s)** fall term only

Term Credits: 15

Winter

- CIS 195 - Web Authoring I **4 Credit(s)**
- DDM 141 - Electronic Publishing II InDesign **3 Credit(s)** winter term only
- DDM 190 - Intro to Animation Adobe® Animate **3 Credit(s)** DDM 190 winter only, or approved program elective (credits vary)
- DDM 224 - Digital Graphic Design IV **3 Credit(s)** winter term only
- PSY 101 - Psychology of Human Relations **3 Credit(s)** or BA 120

Term Credits: 16

Spring

- BA 243 - Social Media Marketing **3 Credit(s)** or BT 106 / BA 223

- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 218Z
- DDM 170 - Motion Graphics - After Effects **3 Credit(s)** DDM 170 spring term only, or approved program elective (credits vary)
- DDM 229 - Portfolio - Professional Practices **3 Credit(s)** spring term only
- DDM 230 - Studio Capstone **3 Credit(s)** or DDM 280; spring term only

Term Credits: 16

Approved Program Electives

(18-19 credits - Complete a sufficient number of electives to meet the total degree requirements.)

- ART 120 - Introduction to Digital Art **3 Credit(s)**
- ART 131 - Introduction to Drawing - Value **3 Credit(s)**
- ART 132 - Introduction to Drawing - Line **3 Credit(s)**
- ART 133 - Intro to Drawing - Mixed Media **3 Credit(s)**
- ART 234 - Figure Drawing I **3 Credit(s)**
- ART 237 - Illustration Black and White Media **3 Credit(s)**
- ART 238 - Illustration - Color Media **3 Credit(s)**
- ART 239 - Illustration - Perspective **3 Credit(s)**
- ART 281 - Painting I **3 Credit(s)**
- ART 294 - Watercolor I **3 Credit(s)**
- BT 121 - Digital Marketing and e-Commerce **3 Credit(s)**
- CIS 120 - Concepts in Computing I **2 Credit(s)**
- DDM 125 - Digital Photography **3 Credit(s)**
- DDM 161 - Adv Digital Imaging Photoshop CC **4 Credit(s)**
- DDM 170 - Motion Graphics - After Effects **3 Credit(s)**
- DDM 185 - Intro to Digital Video - Premiere **3 Credit(s)**
- DDM 186 - Advanced Digital Video **3 Credit(s)**
- DDM 190 - Intro to Animation Adobe® Animate **3 Credit(s)**
- DDM 191 - Advanced Animation II **3 Credit(s)**
- DDM 225 - 3D Graphics Design **3 Credit(s)**
- DDM 226 - Advanced 3D Graphics Design II **3 Credit(s)**

- DDM 235 - Website Design **4 Credit(s)**
- DDM 280 - CWE - Design and Digital Media **Var. (1-12) Credit(s)** (if not taken as part of core)
- PRD 101 - Intro to Podcasting - Radio **3 Credit(s)**

For more information, contact the Visual Arts and Design Department:

Phone: 541-956-7500

Email: VisualArtsandDesignInfo@roguecc.edu

Web address: www.roguecc.edu/vad

TTY: Oregon Telecom Relay Service, 711

Associate of General Studies - Art Interest

About the Program

The Associate of General Studies degree is a two-year program designed to provide students the opportunity to acquire a broad education rather than pursuing a specific college major or program. The general studies degree may, in addition to general education coursework, include lower-division college transfer and career and technical education courses. Because of the flexibility of this degree, it may not fulfill requirements for transfer to a four-year institution. RCC and the Pacific Northwest College of Art have signed a transfer agreement pertaining to the Associate of General Studies - Art Interest. For more information, contact your RCC Advisor.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to apply toward degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Individual courses may be challenged based on the student's life experience or knowledge. Arrangements may be made on an individual basis with the instructor teaching the course to determine specific challenge procedures. College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

The Associate of General Studies degree will be awarded to students who complete a minimum of 90 credit hours of college transfer and career and technical courses from the curriculum listed. Students must receive a grade of "C-" or better in all coursework. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned a "C-" or better grade.

The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AGS framework. See the AGS program map for full degree requirements. This course of study is designed to provide a foundation for students planning to transfer to private art schools, and for students wanting to develop their portfolios and depth of expertise within different mediums. Requirements at different schools vary, so students should consult their programs of interest for more specific guidance.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some pre-

requisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90

Program email address: VisualArtsandDesignInfo@roguecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 95 - Intermediate Algebra **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Term 1

Check in with Advisor

- ART 115 - Basic Design - Composition **3 Credit(s)**
- ART 131 - Introduction to Drawing - Value **3 Credit(s)**
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 115 or COMM 218Z
- PE 185ZM - Zumba ® **1 Credit(s)** or any Fitness/ Health/PE course

Term Credits: 15

Term 2

- ART 116 - Basic Design - Color Theory **3 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 253 - Ceramics I **3 Credit(s)**
- PE 185YO - Yoga **1 Credit(s)** or other approved transferable general elective
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 15

Term 3

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)** or any Social Science course

- ART 120 - Introduction to Digital Art **3 Credit(s)**
- ART 132 - Introduction to Drawing - Line **3 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- PE 185CO - Core and Cardio **1 Credit(s)** or any Fitness/Health/PE course

Term Credits: 15

Term 4

Check in with Advisor

- ART 235 - Figure Drawing II **3 Credit(s)** or other Approved Advanced Studio Course
- ART 281 - Painting I **3 Credit(s)**
- ART 294 - Watercolor I **3 Credit(s)**
- G 101 - Intro to Geology I **3 Credit(s)** or any Lab Science course
- G 101L - Intro to Geology I Lab **1 Credit(s)** or any Lab Science course
- PSY 101 - Psychology of Human Relations **3 Credit(s)**

Term Credits: 16

Term 5

- ART 198 - Independent Study - Art Portfolio **Var. (1-3) Credit(s)** 1
- ART 236 - Figure Drawing III **3 Credit(s)** or other Approved Advanced Studio Course
- ART 257 - Jewelry and Metalsmithing I **3 Credit(s)**
- ART 276 - Sculpture I **3 Credit(s)**
- ART 282 - Painting II **3 Credit(s)** or other Approved Advanced Studio Course
- MTH 105Z - Math in Society **4 Credit(s)** or higher-level math

Term Credits: 17

Term 6

- ART 237 - Illustration Black and White Media **3 Credit(s)**
- ART 234 - Figure Drawing I **3 Credit(s)**
- ART 254 - Ceramics II **3 Credit(s)** or Advanced studio course
- ART 283 - Painting III **3 Credit(s)** or Advanced studio course
- DDM 160 - Digital Imaging - Photoshop **3 Credit(s)**

- PE 185BP - Backpacking Adventure **1 Credit(s)** or any Fitness/Health/PE course

Term Credits: 16

Approved Advanced Studio Courses (Complete 9 - 12 Credits)

- ART 235 - Figure Drawing II **3 Credit(s)**
- ART 236 - Figure Drawing III **3 Credit(s)**
- ART 238 - Illustration - Color Media **3 Credit(s)**
- ART 239 - Illustration - Perspective **3 Credit(s)**
- ART 240 - Advanced Figure Drawing **3 Credit(s)**
- ART 254 - Ceramics II **3 Credit(s)**
- ART 255 - Ceramics III **3 Credit(s)**
- ART 256 - Ceramics IV **3 Credit(s)**
- ART 258 - Jewelry and Metalsmithing II **3 Credit(s)**
- ART 259 - Jewelry and Metalsmithing III **3 Credit(s)**
- ART 260 - Jewelry and Metalsmithing IV **3 Credit(s)**
- ART 277 - Sculpture II **3 Credit(s)**
- ART 278 - Sculpture III **3 Credit(s)**
- ART 282 - Painting II **3 Credit(s)**
- ART 283 - Painting III **3 Credit(s)**
- ART 284 - Painting IV **3 Credit(s)**
- ART 295 - Watercolor II **3 Credit(s)**
- ART 296 - Watercolor III **3 Credit(s)**
- ART 297 - Watercolor IV **3 Credit(s)**

or any ART or DDM course not listed here or above

Notes:

¹ WR 122Z / WR122 is a prerequisite for ART 198.

For approved Humanities, Social Science and Science, see Associate of General Studies for Approved Electives.

For more information, contact the Visual Arts and Design Department:

Phone: 541-956-7500

Email: VisualArtsandDesignInfo@roguecc.edu

Web address: www.roguecc.edu/vad

TTY: Oregon Telecom Relay Service, 711

Digital Cinema Transfer to SOU

Associate of Science

About the Program

This Associate of Science (AS) degree is based on a signed articulation agreement with Southern Oregon University (SOU). The program is designed for students transferring to its baccalaureate degree program in Digital Cinema. Students completing this degree will meet the requirements for the foundation courses within the Digital Cinema degree requirements. Students must work closely with advisors in their areas of interest to ensure electives are appropriate.

By completing all appropriate credits (including electives), students will fulfill required lower division coursework for transfer to SOU. Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the transfer requirements of the college of their choice.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Digital Cinema Transfer to Southern Oregon University degree are:

Utilize the correct tools and technology to create visual messages.

Apply cultural and human factors to editorial decisions.

Demonstrate basic business practices and trade ethics related to film.

Organize video projects and work productively in teams.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C-" or better. Certain required courses are also graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some pre-requisites may be required for graduation. Please consult an advisor with any program completion questions.

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Total Program Credits: 90-94

Program email address: VisualArtsandDesignInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 95 - Intermediate Algebra **4 Credit(s)** or MTH 96 or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Fall

Check in with Advisor

- ART 204 - Prehistoric to Gothic Art **4 Credit(s)** or ART 205; Required course and fulfills Humanities requirement.
- CIS 120 - Concepts in Computing I **2 Credit(s)** or documented proficiency within the past 10 years
- COMM 225 - Small Group Communication **4 Credit(s)** or COMM 111Z or COMM 218Z
- DDM 160 - Digital Imaging - Photoshop **3 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 15-17

Winter

- ART 131 - Introduction to Drawing - Value **3 Credit(s)** Required course and fulfills Humanities requirement

- DDM 125 - Digital Photography **3 Credit(s)**
- DDM 190 - Intro to Animation Adobe® Animate **3 Credit(s)** winter term only
- HE 250 - Personal Health **3 Credit(s)** or approved Social Science transfer course (credits vary)
- WR 122Z - Composition II **4 Credit(s)**

Term Credits: 16

Spring

- DDM 130 - Introduction to Adobe Web Tools **3 Credit(s)**
- DDM 170 - Motion Graphics - After Effects **3 Credit(s)** spring term only
- MTH 105Z - Math in Society **4 Credit(s)** ¹ or higher-level math
- MUS 208 - Film Music **3 Credit(s)** Required course and fulfills Humanities requirement

Term Credits: 13

Fall

Check in with Advisor

- DDM 185 - Intro to Digital Video - Premiere **3 Credit(s)**
- DDM 200 - Survey of Design and Film History **3 Credit(s)** fall term only
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)** or approved Social Science transfer course (credits vary)
- WR 241 - Imaginative Writing I **4 Credit(s)**

Term Credits: 14

Winter

- ART 205 - Renaissance to Baroque Art **4 Credit(s)** or ART 206
- CIS 195 - Web Authoring I **4 Credit(s)**
- DDM 186 - Advanced Digital Video **3 Credit(s)** winter term only
- G 101 - Intro to Geology I **3 Credit(s)** or approved Lab Science transfer course (credits vary)
- G 101L - Intro to Geology I Lab **1 Credit(s)** or approved Lab Science transfer course (credits vary)

Term Credits: 15

Spring

- BA 218 - Personal Finance **3 Credit(s)** or approved Social Science transfer course (credits vary)
- BI 101 - Introduction to Biology I **3 Credit(s)** or approved Lab Science transfer course (credits vary)
- BI 101L - Introduction to Biology I Lab **1 Credit(s)** or approved Lab Science transfer course (credits vary)
- DDM 229 - Portfolio - Professional Practices **3 Credit(s)** spring term only
- DDM 230 - Studio Capstone **3 Credit(s)** spring term only
- GEOG 110 - Introduction to Human Geography **4 Credit(s)** or approved Social Science transfer course (credits vary)

Term Credits: 17

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Science Electives

Complete at least two lab courses from the following list, 8-10 credits, as needed to complete total program minimum credits.

Note that one course can be a regional field studies course, indicated by asterisk.

For a list of SOU's General Education Capacities please go to their website.

- BI 101 - Introduction to Biology I **3 Credit(s)** and BI 101L
- BI 102 - Introduction to Biology II **3 Credit(s)** and BI 102L
- BI 103 - Introduction to Biology III **3 Credit(s)** and BI 103L
- BI 121 - Elem Anatomy - Physiology I **3 Credit(s)** and BI 121L
- BI 122 - Intro Anatomy - Physiology II **3 Credit(s)** and BI 122L
- BI 231 - Anatomy and Physiology I **3 Credit(s)** and BI 231L
- BI 232 - Anatomy and Physiology II **3 Credit(s)** and BI 232L
- BI 233 - Anatomy and Physiology III **3 Credit(s)** and BI 233L
- BI 234 - Microbiology **3 Credit(s)** and BI 234L
- BI 221Z - Principles of Biology - Cells **5 Credit(s)**
- BI 222Z - Principles of Biology - Organisms **5 Credit(s)**
- BI 223Z - Principles of Bio - Ecology and Evo **5 Credit(s)**

- CHEM 104 - Introductory Chemistry **4 Credit(s)** and CHEM 104L
- CHEM 105 - Introductory Organic Chemistry **3 Credit(s)** and CHEM 105L
- CHEM 106 - Introductory Biochemistry **3 Credit(s)** and CHEM 106L
- G 101 - Intro to Geology I **3 Credit(s)** and G 101L
- G 102 - Intro to Geology II Surface Process **3 Credit(s)** and G 102L
- G 103 - Intro to Geology III Historical **3 Credit(s)** and G 103L
- GS 170 - Regional Field Studies **3 Credit(s)** and GS 170L *
- PH 201 - General Physics I **4 Credit(s)** and PH 201L
- PH 202 - General Physics II **4 Credit(s)** and PH 202L
- PH 203 - General Physics III **4 Credit(s)** and PH 203L
- PH 211 - General Physics - Calculus I **4 Credit(s)** and PH 211L
- PH 212 - General Physics - Calculus II **4 Credit(s)** and PH 212L
- PH 213 - General Physics - Calculus III **4 Credit(s)** and PH 213L

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Social Science Electives

Complete 12-14 credits from the following list, as needed to complete total program minimum credits.

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)**
- ANTH 150 - Introduction to Archaeology **4 Credit(s)**
- BA 101Z - Introduction to Business **4 Credit(s)**
- COMM 237 - Communication and Gender **4 Credit(s)**
- ECON 115 - Introduction to Economics **3 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- GEOG 110 - Introduction to Human Geography **4 Credit(s)**
- GEOG 120 - World Regional Geography **4 Credit(s)**
- HE 250 - Personal Health **3 Credit(s)**
- HPE 295 - Health and Fitness for Life **3 Credit(s)**

- HST 104 - World Civ Prehistory - Middle Ages **4 Credit(s)**
- HST 105 - World Civ Byzantium - Present **4 Credit(s)**
- HST 201 - US History through Reconstruction **4 Credit(s)**
- HST 202 - US HST Post Reconstruction-Present **4 Credit(s)**
- IS 110 - Intro to International Studies **4 Credit(s)**
- PS 201 - US Gov Institutions and Policy **4 Credit(s)**
- PS 202 - US Gov Ideologies and Engagement **4 Credit(s)**
- PS 203 - State and Local Government **4 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**
- PSY 119 - Psychology of Personal Growth **4 Credit(s)**
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**
- PSY 202Z - Introduction to Psychology II **4 Credit(s)**
- PSY 215 - Lifespan Human Development **4 Credit(s)**
- PSY 219 - Introduction to Abnormal Psychology **4 Credit(s)**
- PSY 231 - Human Sexuality **3 Credit(s)**
- SOC 204Z - Introduction to Sociology **4 Credit(s)**
- SOC 205Z - Social Change and Institutions **4 Credit(s)**
- SOC 206Z - Social Problems **4 Credit(s)**
- SOC 211 - Social Deviance and Social Control **3 Credit(s)**
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)**
- SOC 218 - Sociology of Gender **4 Credit(s)**
- SOC 228 - Environment and Society **4 Credit(s)**
- SOC 230 - Aging and Society **4 Credit(s)**
- SOC 235 - Chicano-a and Latino-a US History **4 Credit(s)** or HST 259
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- SOC 244 - Introduction to Criminology **4 Credit(s)**

Notes:

¹ Students may also take MTH 111Z, MTH 112Z, MTH 211 and MTH 212, STAT 243Z or MTH 251Z. The Bachelor of Science degree requires two courses (7 or more credits) of math, designated programming, statistics or logic courses. The second course may be completed at RCC or SOU. See an advisor for details.

For more information, contact the Visual Arts and Design Department:

Phone: 541-956-7500

Email: VisualArtsandDesignInfo@roguecc.edu

Web address: www.roguecc.edu/vad

TTY: Oregon Telecom Relay Service, 711

Emerging Media and Digital Arts Transfer to SOU

Associate of Science

About the Program

This Associate of Science (AS) degree is based on a signed articulation agreement with Southern Oregon University (SOU). The program is designed for students transferring to its baccalaureate degree program in Emerging Media and Digital Arts (EMDA). Students completing this degree will meet the requirements for the foundation courses within the EMDA degree requirements. Students must work closely with advisors in their areas of interest to ensure electives are appropriate.

By completing all appropriate credits (including electives), students will fulfill required lower division coursework for transfer to SOU. Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the transfer requirements of the college of their choice.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Emerging Media and Digital Arts Transfer to Southern Oregon University degree are:

Utilize the correct tools and technology to create visual messages.

Create, re-produce, and distribute design projects.

Create a professionally designed portfolio using appropriate digital media tools.

Apply design history, theory, and criticism from a variety of perspectives.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C-" or better. Certain required courses are also graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some pre-requisites may be required for graduation. Please consult an advisor with any program completion questions.

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Total Program Credits: 90-91

Program email address: VisualArtsandDesignInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- CIS 120 - Concepts in Computing I **2 Credit(s)** ¹
- MTH 95 - Intermediate Algebra **4 Credit(s)** or MTH 96 or designated placement.
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-10

Fall

Check in with Advisor

- ART 131 - Introduction to Drawing - Value **3 Credit(s)**
- DDM 120 - Digital Graphic Design I **3 Credit(s)** fall/winter only
- COMM 225 - Small Group Communication **4 Credit(s)** or COMM 111Z or COMM 218Z
- DDM 150 - Computer Illustration - Illustrator **3 Credit(s)**
- HE 250 - Personal Health **3 Credit(s)** or approved Social Science transfer course (credits vary)

Term Credits: 16

Winter

- MTH 105Z - Math in Society **4 Credit(s)** or higher-level math ²
- DDM 140 - Electronic Publishing I InDesign **3 Credit(s)**
- DDM 160 - Digital Imaging - Photoshop **3 Credit(s)**

- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 14

Spring

- DDM 130 - Introduction to Adobe Web Tools **3 Credit(s)**
- DDM 220 - Digital Graphic Design II **3 Credit(s)** spring term only
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)** or approved Social Science transfer course (credits vary)
- DDM 125 - Digital Photography **3 Credit(s)**

Term Credits: 13

Fall

Check in with Advisor

- MUS 105 - Music Appreciation **3 Credit(s)** or approved Humanities transfer course (credits vary)
- DDM 185 - Intro to Digital Video - Premiere **3 Credit(s)**
- DDM 200 - Survey of Design and Film History **3 Credit(s)** fall term only
- DDM 223 - Digital Graphic Design III **3 Credit(s)** fall term only
- WR 122Z - Composition II **4 Credit(s)**

Term Credits: 16

Winter

- DDM 141 - Electronic Publishing II InDesign **3 Credit(s)** winter term only
- DDM 224 - Digital Graphic Design IV **3 Credit(s)** winter term only
- BI 101 - Introduction to Biology I **3 Credit(s)** or approved Lab Science transfer course (credits vary)
- BI 101L - Introduction to Biology I Lab **1 Credit(s)** or approved Lab Science transfer course (credits vary)
- DDM 190 - Intro to Animation Adobe® Animate **3 Credit(s)**
- ART 237 - Illustration Black and White Media **3 Credit(s)** Program elective, as needed to meet program requirements (credits vary)

Term Credits: 16

Spring

- CIS 195 - Web Authoring I **4 Credit(s)**
- DDM 170 - Motion Graphics - After Effects **3 Credit(s)** or approved program elective
- DDM 229 - Portfolio - Professional Practices **3 Credit(s)** spring term only
- DDM 230 - Studio Capstone **3 Credit(s)** (spring term only), or approved elective or DDM 280
- BI 103 - Introduction to Biology III **3 Credit(s)** or approved Lab Science transfer course (credits vary)
- BI 103L - Introduction to Biology III Lab **1 Credit(s)** or approved Lab Science transfer course (credits vary)

Term Credits: 17

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Humanities Electives

Complete one course from the following list, 3-4 credits.

- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- COMM 115 - Intercultural Communication **4 Credit(s)**
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**

- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 257 - African American Literature **4 Credit(s)**
- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- IS 110 - Intro to International Studies **4 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**

- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**
- TA 141 - Fundamentals of Acting I **4 Credit(s)**
- WR 241 - Imaginative Writing I **4 Credit(s)**
- WR 242 - Imaginative Writing II **4 Credit(s)**
- WR 243 - Imaginative Writing III **4 Credit(s)**

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Science Electives

Complete at least two lab courses from the following list, 8-10 credits.

Note that one course can be a regional field studies course, indicated by asterisk.

For a list of SOU's General Education Capacities please go to their website.

- BI 101 - Introduction to Biology I **3 Credit(s)** and BI 101L
- BI 102 - Introduction to Biology II **3 Credit(s)** and BI 102L
- BI 103 - Introduction to Biology III **3 Credit(s)** and BI 103L
- BI 121 - Elem Anatomy - Physiology I **3 Credit(s)** and BI 121L
- BI 122 - Intro Anatomy - Physiology II **3 Credit(s)** and BI 122L
- BI 221Z - Principles of Biology - Cells **5 Credit(s)**
- BI 222Z - Principles of Biology - Organisms **5 Credit(s)**
- BI 223Z - Principles of Bio - Ecology and Evo **5 Credit(s)**
- BI 231 - Anatomy and Physiology I **3 Credit(s)** and BI 231L
- BI 232 - Anatomy and Physiology II **3 Credit(s)** and BI 232L
- BI 233 - Anatomy and Physiology III **3 Credit(s)** and BI 233L
- BI 234 - Microbiology **3 Credit(s)** and BI 234L
- CHEM 104 - Introductory Chemistry **4 Credit(s)** and CHEM 104L
- CHEM 105 - Introductory Organic Chemistry **3 Credit(s)** and CHEM 105L
- CHEM 106 - Introductory Biochemistry **3 Credit(s)** and CHEM 106L

- CHEM 221Z - General Chemistry I **4 Credit(s)** and CHEM 227Z
- CHEM 222Z - General Chemistry II **4 Credit(s)** and CHEM 228Z
- CHEM 223Z - General Chemistry III **4 Credit(s)** and CHEM 229Z
- G 101 - Intro to Geology I **3 Credit(s)** and G 101L
- G 102 - Intro to Geology II Surface Process **3 Credit(s)** and G 102L
- G 103 - Intro to Geology III Historical **3 Credit(s)** and G 103L
- GS 104 - Physical Science - Physics **3 Credit(s)** and GS 104L
- GS 107 - Physical Science - Astronomy **3 Credit(s)** and GS 107L
- GS 108 - Physical Science - Oceanography **3 Credit(s)** and GS 108L
- GS 170 - Regional Field Studies **3 Credit(s)** and GS 170L *
- PH 201 - General Physics I **4 Credit(s)** and PH 201L
- PH 202 - General Physics II **4 Credit(s)** and PH 202L
- PH 203 - General Physics III **4 Credit(s)** and PH 203L
- PH 211 - General Physics - Calculus I **4 Credit(s)** and PH 211L
- PH 212 - General Physics - Calculus II **4 Credit(s)** and PH 212L
- PH 213 - General Physics - Calculus III **4 Credit(s)** and PH 213L

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Social Science Electives

Complete at least two courses from the following list, 6-8 credits.

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)**
- ANTH 150 - Introduction to Archaeology **4 Credit(s)**
- BA 101Z - Introduction to Business **4 Credit(s)**
- SOC 244 - Introduction to Criminology **4 Credit(s)**
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- COMM 237 - Communication and Gender **4 Credit(s)**
- ECON 115 - Introduction to Economics **3 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**

- GEOG 110 - Introduction to Human Geography **4 Credit(s)**
- GEOG 120 - World Regional Geography **4 Credit(s)**
- HE 250 - Personal Health **3 Credit(s)**
- HPE 295 - Health and Fitness for Life **3 Credit(s)**
- HST 104 - World Civ Prehistory - Middle Ages **4 Credit(s)**
- HST 105 - World Civ Byzantium - Present **4 Credit(s)**
- HST 201 - US History through Reconstruction **4 Credit(s)**
- HST 202 - US HST Post Reconstruction-Present **4 Credit(s)**
- PS 201 - US Gov Institutions and Policy **4 Credit(s)**
- PS 202 - US Gov Ideologies and Engagement **4 Credit(s)**
- PS 203 - State and Local Government **4 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**
- PSY 119 - Psychology of Personal Growth **4 Credit(s)**
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**
- PSY 202Z - Introduction to Psychology II **4 Credit(s)**
- PSY 215 - Lifespan Human Development **4 Credit(s)**
- PSY 219 - Introduction to Abnormal Psychology **4 Credit(s)**
- PSY 231 - Human Sexuality **3 Credit(s)**
- SOC 204Z - Introduction to Sociology **4 Credit(s)**
- SOC 205Z - Social Change and Institutions **4 Credit(s)**
- SOC 211 - Social Deviance and Social Control **3 Credit(s)**
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)**
- SOC 218 - Sociology of Gender **4 Credit(s)**
- SOC 206Z - Social Problems **4 Credit(s)**
- SOC 228 - Environment and Society **4 Credit(s)**
- SOC 230 - Aging and Society **4 Credit(s)**
- SOC 235 - Chicano-a and Latino-a US History **4 Credit(s)** or HST 259

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Design and Digital Media Electives

Complete 3-8 credits or a sufficient number of electives to meet the total degree requirements of at least 90 credits.

- ART 115 - Basic Design - Composition **3 Credit(s)**
- ART 116 - Basic Design - Color Theory **3 Credit(s)**
- ART 120 - Introduction to Digital Art **3 Credit(s)**
- ART 222 - Graphic Design - Typography **3 Credit(s)**
- ART 237 - Illustration Black and White Media **3 Credit(s)**
- DDM 161 - Adv Digital Imaging Photoshop CC **4 Credit(s)**
- DDM 170 - Motion Graphics - After Effects **3 Credit(s)**
- DDM 186 - Advanced Digital Video **3 Credit(s)**
- DDM 221 - Production Graphics **3 Credit(s)**
- DDM 225 - 3D Graphics Design **3 Credit(s)**
- DDM 230 - Studio Capstone **3 Credit(s)** or DDM 280
- DDM 231 - Content Management Systems **3 Credit(s)**
- DDM 235 - Website Design **4 Credit(s)**

Notes:

¹ Approved Computer Information Science or Computer Science class, CIS 120 / CS120 or above, or documented computer proficiency within the past ten years.

² Students may also take MTH 111Z, MTH 112Z, MTH 211 and MTH 212, STAT 243Z or MTH 251Z. The Bachelor of Science degree requires two courses (7 or more credits) of math, designated programming, statistics or logic courses. The second course may be completed at RCC or SOU. See an advisor for details.

For more information, contact the Visual Arts and Design Department:

Phone: 541-956-7500

Email: VisualArtsandDesignInfo@roquecc.edu

Web address: www.roquecc.edu/vad

TTY: Oregon Telecom Relay Service, 711

Associate of Arts Oregon Transfer - Art Interest

About the Program

The Associate of Arts Oregon Transfer degree is a two-year program designed for students who intend to transfer to an Oregon university. Completion of the degree will satisfy lower division general education requirements and ensures junior standing at a university for registration purposes. Additionally, with careful planning, students may satisfy many of the lower division courses required in their academic majors.

Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the general education requirements of the school of their choice. Students are encouraged to work closely with their academic advisors to maximize the benefits of this degree.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to fulfill AAOT degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Discipline studies-approved coursework in humanities, social science, and science/math/computer science transferred from another Oregon community college will be accepted if students have a declared AAOT major at RCC and received a "C-" or better grade in the course(s). College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

Students must complete a minimum of 90 college-level credits with a minimum grade of "C-" or better, including at least one course designated as meeting cultural literacy criteria. Students must also have a 2.0 cumulative GPA at the time the AAOT is awarded.

The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AAOT framework. See the AAOT program map for full degree requirements. It is recommended that students also consult with the transfer college of choice regarding specific prerequisites since requirements for an art major vary at each university.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some

prerequisites may be required for graduation. Please consult an advisor for any questions in preparing to complete your transfer degree.

Total Program Credits: 90

Program email address: VisualArtsandDesignInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 95 - Intermediate Algebra **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Term 1

Check in with Advisor

- ART 131 - Introduction to Drawing - Value **3 Credit(s)**
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)** or approved AAOT Humanities transfer course
- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 115¹ or COMM 218Z
- MTH 105Z - Math in Society **4 Credit(s)** or higher-level math

Term Credits: 15

Term 2

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)** ¹ or approved AAOT Social Science course
- ART 115 - Basic Design - Composition **3 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)** ¹ or approved AAOT Humanities transfer course
- PE 185CO - Core and Cardio **1 Credit(s)** or approved Fitness/Health/Physical Education course
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 16

Term 3

- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**¹ or approved AAOT Humanities transfer course
- ART 281 - Painting I **3 Credit(s)**
- NFM 225 - Nutrition **4 Credit(s)** or approved AAOT Math/Science/Computer Science transfer course
- PE 185BP - Backpacking Adventure **1 Credit(s)** or approved AAOT Fitness/Health/PE course
- WR 122Z - Composition II **4 Credit(s)** or WR 227Z

Term Credits: 16

Term 4

Check in with Advisor

- ANTH 150 - Introduction to Archaeology **4 Credit(s)** or approved AAOT Social Science course
- BI 101 - Introduction to Biology I **3 Credit(s)** or approved AAOT Lab Science course
- BI 101L - Introduction to Biology I Lab **1 Credit(s)** or approved AAOT Lab Science course
- MUS 206 - Introduction to Rock Music **3 Credit(s)**¹ or MUS 201¹ / MUS 210¹ or approved AAOT Humanities transfer course
- SPAN 101 - First Year Spanish I **4 Credit(s)** or SPAN 201¹

Term Credits: 15

Term 5

- BI 102 - Introduction to Biology II **3 Credit(s)** or approved AAOT Lab Science transfer course
- BI 102L - Introduction to Biology II Lab **1 Credit(s)** or approved AAOT Lab Science transfer course
- HST 104 - World Civ Prehistory - Middle Ages **4 Credit(s)**¹ or approved AAOT Social Science transfer course
- PE 185ZM - Zumba ® **1 Credit(s)** or approved Fitness/Health/PE course
- SPAN 102 - First Year Spanish II **4 Credit(s)** or SPAN 202¹

Term Credits: 13

Term 6

- ART 253 - Ceramics I **3 Credit(s)**

- G 103 - Intro to Geology III Historical **3 Credit(s)** BI 103 or approved AAOT Lab Science transfer course
- G 103L - Intro to Geology III Historical Lab **1 Credit(s)** BI 103L or approved AAOT Lab Science transfer course
- HST 105 - World Civ Byzantium - Present **4 Credit(s)** ¹ or approved AAOT Social Science transfer course
- SPAN 103 - First Year Spanish III **4 Credit(s)** SPAN 203 ¹

Term Credits: 15

Notes:

¹ Meets cultural literacy criteria (one course required).

General AAOT Requirements:

- Three courses required in the Humanities category from at least two disciplines (at least 2 prefixes).
- Four courses required in Social Science category, from at least two disciplines (at least 2 prefixes).
- Four courses required in Science/Math/Computer Science from two disciplines. Three must be lab science courses.
- Students who took writing classes of 3 credits each must have WR 121, WR 122, and either WR 123 or WR 227. Students taking classes of 4 credits each must take WR 121Z and either WR 122Z or WR 227Z.
- Fitness/Health/Physical Education (minimum of one or more courses totaling at least 3 credits).
- General elective(s) as needed to meet minimum program total requirement of 90 credits.

For more information, contact the Visual Arts and Design Department:

Phone: 541-956-7500

Email: VisualArtsandDesignInfo@roquecc.edu

Web address: www.roquecc.edu/vad

TTY: Oregon Telecom Relay Service, 711

Associate of Arts Oregon Transfer - Communication Interest

About the Program

The Associate of Arts Oregon Transfer degree is a two-year program designed for students who intend to transfer to an Oregon university. Completion of the degree will satisfy lower division general education requirements and ensures junior standing at a university for registration purposes. Additionally, with careful planning, students may satisfy many of the lower division courses required in their academic majors.

Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the general education requirements of the school of their choice. Students are encouraged to work closely with their academic advisors to maximize the benefits of this degree.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to fulfill AAOT degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Discipline studies-approved coursework in humanities, social science, and science/math/computer science transferred from another Oregon community college will be accepted if students have a declared AAOT major at RCC and received a "C-" or better grade in the course(s). College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

Students must complete a minimum of 90 college-level credits with a minimum grade of "C-" or better, including at least one course designated as meeting cultural literacy criteria. Students must also have a 2.0 cumulative GPA at the time the AAOT is awarded.

The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AAOT framework. See the AAOT program map for full degree requirements. It is recommended that a student also consult with the transfer college of choice regarding specific prerequisites since requirements for a communication major vary at each university.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate classes in any given term. When transferring to a public four-year Oregon university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language, or
2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. Additionally, if students intend to complete a Bachelor of Arts (B.A.) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Completing the first year of the college language sequence in terms 3-6 at RCC sets students up for the second-year sequence when they transfer. Students should inquire with their intended receiving institution for world language requirements.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult with an advisor regularly as you complete your transfer degree.

Total Program Credits: 90

Program email address: HumanitiesInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 95 - Intermediate Algebra **4 Credit(s)** or MTH 96 designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Term 1

Check in with Advisor

- CG 100 - College Success and Survival **2 Credit(s)** or approved College-level general elective
- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 115¹ or COMM 218Z
- PE 185YO - Yoga **1 Credit(s)** or approved College-level general elective
- STAT 243Z - Elementary Statistics I **4 Credit(s)** or MTH 105Z
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 15

Term 2

- COMM 218Z - Interpersonal Communication **4 Credit(s)** or COMM 111Z or COMM 115 ¹ or other COMM course
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)** ¹ or approved AAOT non-COMM Humanities transfer course
- GS 104 - Physical Science - Physics **3 Credit(s)** or BI 101 or BI 102 or approved AAOT Lab Science transfer course
- GS 104L - Physical Science - Physics Lab **1 Credit(s)** or BI 101L or BI 102L or approved AAOT Lab Science transfer course
- WR 122Z - Composition II **4 Credit(s)** or WR 227Z

Term Credits: 16

Term 3

- COMM 115 - Intercultural Communication **4 Credit(s)** ¹ or COMM 111Z or COMM 218Z or other COMM course
- GS 107 - Physical Science - Astronomy **3 Credit(s)** or BI 101 or BI 103 or approved AAOT Lab Science transfer course
- GS 107L - Physical Science - Astronomy Lab **1 Credit(s)** or BI 101L or BI 103L or approved AAOT Lab Science transfer course
- PSY 201Z - Introduction to Psychology I **4 Credit(s)** or HST 201 ¹ or SOC 204Z ¹ or approved AAOT Social Science course

Term Credits: 12

Term 4

Check in with Advisor

- GS 108 - Physical Science - Oceanography **3 Credit(s)** or BI 101 or approved AAOT Lab Science transfer course
- GS 108L - Physical Science - Oceanography Lab **1 Credit(s)** or BI 101L or approved AAOT Lab Science transfer course
- PHL 101 - Philosophical Problems **4 Credit(s)** or approved College-level course
- SOC 204Z - Introduction to Sociology **4 Credit(s)** ¹ or HST 201 ¹ or PSY 201Z or approved AAOT Social Science transfer course
- SPAN 101 - First Year Spanish I **4 Credit(s)** or ASL 101 or approved College-level course

Term Credits: 16

Term 5

- COMM 225 - Small Group Communication **4 Credit(s)** or COMM 201 other COMM course
- NFM 225 - Nutrition **4 Credit(s)** or CS 160 or ENV 111 or approved AAOT Science/Math/Computer Science transfer course
- SOC 218 - Sociology of Gender **4 Credit(s)** ¹ or approved AAOT Social Science transfer course
- SPAN 102 - First Year Spanish II **4 Credit(s)** or ASL 102 or approved College-level general elective

Term Credits: 16

Term 6

- COMM 201 - Media and Society **4 Credit(s)** or other COMM course
- HE 250 - Personal Health **3 Credit(s)** or approved AAOT Fitness/Health/PE course
- PSY 202Z - Introduction to Psychology II **4 Credit(s)** or HST 202 ¹ or SOC 213 ¹ or approved AAOT Social Science transfer course
- SPAN 103 - First Year Spanish III **4 Credit(s)** or ASL 103 or approved College-level course

Term Credits: 15

Notes:

¹ Meets cultural literacy criteria (one course required).

General AAOT Requirements:

- Three courses required in the Humanities category from at least two disciplines (at least 2 prefixes).
- Four courses required in Social Science category, from at least two disciplines (at least 2 prefixes).
- Four courses required in Science/Math/Computer Science from two disciplines. Three must be lab science courses.
- Students who took writing classes of 3 credits each must have WR 121, WR 122, and either WR 123 or WR 227. Students taking classes of 4 credits each must take WR 121Z and either WR 122Z or WR 227Z.
- Fitness/Health/Physical Education (minimum of one or more courses totaling at least 3 credits).
- General elective(s) as needed to meet minimum program total requirement of 90 credits.

For more information, contact the Humanities Department:

Phone: 541-956-7500

Email: HumanitiesInfo@roguecc.edu

Web address: www.roguecc.edu/humanities

TTY: Oregon Telecom Relay Service, 711

Associate of Arts Oregon Transfer - Music Interest

About the Program

The Associate of Arts Oregon Transfer degree is a two-year program designed for students who intend to transfer to an Oregon university. Completion of the degree will satisfy lower division general education requirements and ensures junior standing at a university for registration purposes. Additionally, with careful planning, students may satisfy many of the lower division courses required in their academic majors.

Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the general education requirements of the school of their choice. Students are encouraged to work closely with their academic advisors to maximize the benefits of this degree.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to fulfill AAOT degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. **Students must have basic music knowledge or take MUS 101 Music Fundamentals in the summer before their first fall term when they must enroll in MUS 111 Music Theory I and MUS 114 Aural Skills I.**

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Discipline studies-approved coursework in humanities, social science, and science/math/computer science transferred from another Oregon community college will be accepted if students have a declared AAOT major at RCC and received a "C-" or better grade in the course(s). College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

Students must complete a minimum of 90 college-level credits with a minimum grade of "C-" or better, including at least one course designated as meeting cultural literacy criteria. Students must also have a 2.0 cumulative GPA at the time the AAOT is awarded. **Students must complete the sequence of Music Theory I-III as well as Aural Skills I-III in their first year. For students pursuing music education, performance, conducting, music theory, and music history, Music Theory IV-VI and Aural Skills IV-VI need to be completed in their second year.**

The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AAOT framework. See the AAOT program map for full degree requirements. It is strongly recommended that a student also consult with the transfer college of choice regarding specific prerequisites since requirements for a music major vary at each university.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate classes in any given term. When transferring to a public four-year Oregon university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language
2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. Additionally, if students intend to complete a Bachelor of Arts (B.A.) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Completing the first year of the college language sequence in terms 3-6 at RCC sets students up for the second-year sequence when they transfer. Students should inquire with their intended receiving institution for world language requirements.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult with an advisor regularly as you complete your transfer degree.

Total Program Credits: 90

Program email address: HumanitiesInfo@roguecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 95 - Intermediate Algebra **4 Credit(s)** or MTH 96 or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Recommended Prerequisite

- MUS 101 - Music Fundamentals **3 Credit(s)**
(highly recommended for students without basic music knowledge to complete the summer before they start their first year with Music Theory and Aural Skills)

Term 1

Check in with Advisor

- MTH 105Z - Math in Society **4 Credit(s)** or college-level approved math course

- MUS 158 - Chamber Music Ensemble **1 Credit(s)** or MUS 118 / MUS 119 / MUS 150 / MUS 151 / MUS 152
- MUS 111 - Music Theory I **3 Credit(s)**
- MUS 114 - Aural Skills I **1 Credit(s)**
- MUS 131 - Class Piano I **2 Credit(s)** or MUS 132
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 15

Term 2

- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 115 ¹ / COMM 218Z
- MUS 112 - Music Theory II **3 Credit(s)**
- MUS 115 - Aural Skills II **1 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)** ¹ or MUS 105 / MUS 201 ¹ / MUS 205 ¹ / MUS 206 ¹ / MUS 208 ¹
- WR 122Z - Composition II **4 Credit(s)** or WR 227Z

Term Credits: 16

Term 3

- G 101 - Intro to Geology I **3 Credit(s)** or BI 102 / GS 107 / GS 108 or approved AAOT Lab Science transfer course
- G 101L - Intro to Geology I Lab **1 Credit(s)** or BI 102L / GS 107L / GS 108L or approved AAOT Lab Science transfer course
- MUS 113 - Music Theory III **3 Credit(s)**
- MUS 116 - Aural Skills III **1 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)** ¹ or MUS 105 / MUS 205 ¹ / MUS 206 ¹ / MUS 208 ¹ / MUS 210 ¹
- PSY 201Z - Introduction to Psychology I **4 Credit(s)** or approved AAOT Social Science transfer course

Term Credits: 16

Term 4

Check in with Advisor

- ART 204 - Prehistoric to Gothic Art **4 Credit(s)** or ART 115 / ART 131 / ENG 107 / ENG 108 / ENG 109 / SPAN 201 or approved AAOT Humanities transfer course (credits vary)

- BI 101 - Introduction to Biology I **3 Credit(s)** or G 102 / GS 107 / GS 108 or approved AAOT Lab Science transfer course
- BI 101L - Introduction to Biology I Lab **1 Credit(s)** or G 102L / GS 107L / GS 108L or approved AAOT Lab Science transfer course
- MUS 137 - Group Guitar - Beginning **2 Credit(s)** or MUS 142 or MUS 207 (see Music Department Advisor before selecting which course)
- MUS 211 - Music Theory IV **3 Credit(s)** or approved elective ²
- MUS 224 - Aural Skills IV **1 Credit(s)** or approved elective ²

Term Credits: 14

Term 5

- GS 108 - Physical Science - Oceanography **3 Credit(s)** or BI 101 / BI 102 or approved AAOT Lab Science transfer course
- GS 108L - Physical Science - Oceanography Lab **1 Credit(s)** or BI 101L / BI 102L or approved AAOT Lab Science transfer course
- HST 105 - World Civ Byzantium - Present **4 Credit(s)** or ANTH 110 / SOC 213 / SOC 228 / SOC 230 or approved AAOT Social Science transfer course
- MUS 212 - Music Theory V **3 Credit(s)** or approved elective ²
- MUS 225 - Aural Skills V **1 Credit(s)** or approved elective ²
- SOC 204Z - Introduction to Sociology **4 Credit(s)** ¹ or approved AAOT Social Science transfer course

Term Credits: 16

Term 6

- HE 250 - Personal Health **3 Credit(s)** or HE 252 / HE 253 / HE 259 / HPE 295 or approved Fitness/Health/PE course(s)
- MUS 213 - Music Theory VI **3 Credit(s)** or approved elective ²
- MUS 226 - Aural Skills VI **1 Credit(s)** or approved elective ²
- NFM 225 - Nutrition **4 Credit(s)** or CS 160 / ENV 111 or approved AAOT Science/Math/Computer Science course
- PSY 202Z - Introduction to Psychology II **4 Credit(s)** or approved AAOT Social Science transfer course

Term Credits: 15

Cultural Literacy

¹ Meets cultural literacy criteria (one course required).

Approved Electives

² For students not needing the second year music theory and aural skills sequence (students pursuing music industry and recording at a four-year school, for example), below are the approved electives. Complete a combination of any of the following classes to fulfill the number of credits required for graduation. Courses are not repeatable.

Music Courses

- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 118 - Popular Music Ensemble **1 Credit(s)**
- MUS 119 - Jazz Combo **1 Credit(s)**
- MUS 133 - Class Piano III **2 Credit(s)**
- MUS 137 - Group Guitar - Beginning **2 Credit(s)**
- MUS 138 - Group Guitar - Intermediate **2 Credit(s)**
- MUS 142 - Music Technology I **3 Credit(s)**
- MUS 150 - Rogue Chorus **1 Credit(s)**
- MUS 151 - Riverside Chorus **1 Credit(s)**
- MUS 152 - Concert Band **1 Credit(s)**
- MUS 158 - Chamber Music Ensemble **1 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)** ¹
- MUS 205 - History of Jazz **3 Credit(s)** ¹
- MUS 206 - Introduction to Rock Music **3 Credit(s)** ¹
- MUS 207 - Songwriting **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)** ¹
- MUS 210 - Music in World Cultures **4 Credit(s)** ¹
- MUS 211 - Music Theory IV **3 Credit(s)**
- MUS 212 - Music Theory V **3 Credit(s)**
- MUS 213 - Music Theory VI **3 Credit(s)**
- MUS 224 - Aural Skills IV **1 Credit(s)**
- MUS 225 - Aural Skills V **1 Credit(s)**
- MUS 226 - Aural Skills VI **1 Credit(s)**

Non-Music Courses

- BA 101Z - Introduction to Business **4 Credit(s)**

- BA 223 - Principles of Marketing **3 Credit(s)**
- BA 243 - Social Media Marketing **3 Credit(s)**
- BT 250 - Entrepreneurship **3 Credit(s)**
- DDM 185 - Intro to Digital Video - Premiere **3 Credit(s)**
- DDM 186 - Advanced Digital Video **3 Credit(s)**
- ED 200 - Introduction to Teaching **4 Credit(s)**

Notes:

General AAOT Requirements:

- **Elective(s) as needed to meet minimum program total requirement of 90 credits.**
- Three courses required in the Humanities category from at least two disciplines (at least 2 prefixes).
- Four courses required in Social Science category, from at least two disciplines (at least 2 prefixes).
- Four courses required in Science/Math/Computer Science from two disciplines. Three must be lab science courses.
- Students who took writing classes of 3 credits each must have WR121, WR122 and either WR123 or WR227 Students taking classes of 4 credits each must take WR 121Z and either WR 122Z or WR 227Z.
- Fitness/Health/Physical Education (minimum of one or more courses totaling at least 3 credits).

For more information, contact the Music Department:

Phone: 541-956-7500

Email: HumanitiesInfo@roquecc.edu

Web address: www.roquecc.edu/music

TTY: Oregon Telecom Relay Service, 711

English

Associate of Arts Transfer

About the Program

A Major Transfer Map Curriculum and Articulation Policy (MTM CAP) is for students transferring from a participating Oregon community college to any participating Oregon university who know which major/bachelor's degree program they want to pursue. The MTM CAPs identify the optimal and specific set of lower division courses students must take to transfer efficiently into the major at the university. The successful completion of the major transfer map allows students to receive the number of academic credits referenced in this MTM CAP, and comparable standing to the status of students with the same number of academic credits in the major course of study who began their postsecondary studies at the public university. MTM CAPs must include at least 30-credits of general education defined by the Core Transfer Map (CTM). MTM CAPs may choose to specify relevant or required General Education courses as part of the 30-credit CTM component of the MTM CAP. Receiving institutions will not require students to retake a course if the minimum grade requirements, specified in this agreement, have been met.

If students complete a Major Transfer Map and meet public university admissions requirements, they are guaranteed transfer to a participating Oregon four-year public university with junior standing, and their coursework will count toward a bachelor's degree in that specific major. On this page, educators and partners can find the current list of approved MTMs, as well as information guiding the ongoing implementation of MTMs in Oregon.

For additional information, refer to the Higher Education Coordinating Commission Transfer Map website.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Upon completion of the AAT in English, students will be able to:

Demonstrate understanding of literary works in context, including the ways texts engage notions of genre, culture, history, class, race, gender, and/or sexuality.

Use a variety of written, verbal, and/or multimedia forms to respond to, analyze, and/or produce texts.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Humanities Department Chair approval. In order to ensure coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward course requirements.

Graduation Requirements

Students must complete a minimum of 90 term credits of lower division collegiate courses with a minimum grade of "C-" or better. Students must have a minimum cumulative GPA of 2.0 at the time the English Associate of Arts Transfer is awarded. Students should also refer to the Higher Education Coordinating Commission Transfer Map website for additional course GPA requirements that may be applicable at their transfer institution.

Core Transfer Requirements

Category	Course #	Credits
Writing - One course	WR 121Z	4
Arts & Letters - 1st course	200-level literature or writing from AAOT course list: Recommended course: ENG 201, ENG 204, ENG 253, ENG 260, ENG 261	3-4
Arts & Letters - 2nd course	200-level literature or writing from AAOT course list: Recommended course: ENG 202, ENG 205, ENG 254, ENG 260, ENG 261	3-4
Social Sciences - 1st course	Select from AAOT course list: Recommended course: HST 104	3-4
Social Sciences - 2nd course	Select from AAOT course list: Recommended course: HST 105	3-4
Natural Sciences - 1st course	Lab Science from AAOT course list: Recommended course: GS 104 / GS 104L	4-5
Natural Sciences - 2nd course	Lab Science from AAOT course list:	4-5

	Recommended course: GS 107 / GS 107L	
Mathematics - One course	MTH 105Z or higher (includes STAT 243Z)	4-5

At least 1 Core Transfer Requirement course must also satisfy Cultural Literacy outcomes for AAOT.

Core Transfer Requirement Total: 28-35

Additional General Education Course(s)

Category	Course	Credits
Writing	WR 122Z or WR 227Z	4

English Literature Courses

Category	Course	Credits
Course 1	Any 200-level ENG course * must be different from the courses taken for Arts & Letters	3-4
Course 2	Any 200-level ENG course * must be different from the courses taken for Arts & Letters	3-4

English Literature Requirement Total: 6-8

Bachelor's Degree Requirements

Category	Course	Credits
Second Language	Through 203 or end of 2nd year or higher, C- or better in last course**** *****Students without any second language credits should begin the 100-level sequence in their first year at a community college. Students should complete language requirements before transferring. Students transferring to EOU should be aware that they only offer Spanish. Students may also be able to demonstrate proficiency through an exam or other means.	0-24

Bachelor Degree Requirement Total: 0-24

Additional courses to reach 90 credits

See an advisor for recommended courses.

At this point [above = 38-71 credits], it is recommended students pursue these options:

1. Take courses that will apply to the major at the Oregon public university of their choice.
2. Take courses that will apply to the general education or a minor at the Oregon public university of their choice.

Take electives to reach 90 credits that will transfer to the Oregon public university of their choice.

MTM Total: 90

For more information contact the Humanities Department:

Phone: 541-956-7500

Email: HumanitiesInfo@roguecc.edu

Web address: www.roguecc.edu/humanities

TTY: Oregon Telecom Relay Service, 711

For additional information go to the Higher Education Coordinating Commission website.

Business Pathway

Leadership Skills

Career Pathway Certificate

About the Program

The Leadership Skills career pathway two-term certificate prepares students with the essential leadership skills that are applicable to a variety of industries. Courses included in this pathway can be applied to the Associate of Applied Science Business degree. This program can be completed entirely through online delivery.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Leadership Skills Career Pathway Certificate are:

Business Communication

Develop professional communication methods that are appropriate to business situations.

Employability Skills

Develop the interpersonal skills necessary to preserve effective working relationships.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department Chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department head before being accepted toward core requirements. College Now credit will be accepted in accordance with the current articulation agreement.

Credits earned in the successful completion of this program can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

To graduate, students must complete all courses in this program with a grade of "C-" or better. Certain prerequisite courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total credits: 28-29

Program email address:

BusinessInfo@roquecc.edu

Fall Term

- BA 120 - Human Relations in Organizations **3 Credit(s)**
- BA 131 - Introduction to Business Computing **4 Credit(s)**
- BT 111 - Conflict Management **2 Credit(s)**
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term Credits: 12-13

Winter Term

- BA 238 - Effective Business Presentations **3 Credit(s)**
- BT 178 - Customer Service **3 Credit(s)**
- BT 204 - Project Management **3 Credit(s)**
- BT 112 - Leadership Essentials **2 Credit(s)**
- BT 122 - AI Literacy for Business **2 Credit(s)**
- BT 123 - Introduction to Supervision **3 Credit(s)**

Term Credits: 16

For more information, contact the Business Department:

Phone: 541-956-7500

Email: BusinessInfo@roquecc.edu

Web address: www.roquecc.edu/business

TTY: Oregon Telecom Relay Service, 711

Business Skills

Certificate of Completion

About the Program

The Business Skills four-term certificate prepares students for entry-level work in business and can serve as a stepping-stone for further education. Students will acquire foundational business knowledge and skills with the opportunity to choose electives from a focused list. Courses included in this pathway can be applied to the Associate of Applied Science Business degree. This program can be completed entirely through online delivery.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Business Skills Certificate are:

Analytical Skills

Utilize critical thinking by applying problem-solving techniques to various areas of business.

Technology

Use technology to assist with business operations.

Business Ethics

Apply established legal and ethical behaviors in business.

Business Communication

Use professional communication methods appropriate to business situations.

Employability Skills

Use the interpersonal skills necessary to preserve effective working relationships.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department Chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department head before being accepted toward core requirements. College Now credit will be accepted in accordance with the current articulation agreement.

Credits earned in the successful completion of this program can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

To graduate, students must complete all courses in this program with a grade of "C-" or better. Certain prerequisite courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 53-55

Program email address: BusinessInfo@roquecc.edu

Fall

- BA 101Z - Introduction to Business **4 Credit(s)**
- BA 131 - Introduction to Business Computing **4 Credit(s)**
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)**
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term Credits: 15-16

Winter

- BA 120 - Human Relations in Organizations **3 Credit(s)**
- BA 169Z - Data Analysis Using Microsoft Excel **4 Credit(s)** ¹
- BT 103 - Writing for Business and Industry **4 Credit(s)**
- BT 160 - Business Math **4 Credit(s)**

Term Credits: 15

Spring

- BA 211Z - Principles of Financial Accounting **4 Credit(s)**
- BT 105 - Business Ethics **3 Credit(s)**
- BT 111 - Conflict Management **2 Credit(s)**
- BT 178 - Customer Service **3 Credit(s)**

Term Credits: 12

Fall

- BT 123 - Introduction to Supervision **3 Credit(s)**
- BT 168 - Advanced Applications - Word **3 Credit(s)**
Approved electives, 5-6 credits

Term Credits: 11-12

Approved Electives

Choose from the list below: 5-6 elective credits.

- BA 223 - Principles of Marketing **3 Credit(s)**
- BA 228 - Computer Accounting Applications **2 Credit(s)**
- BA 238 - Effective Business Presentations **3 Credit(s)**
- BT 112 - Leadership Essentials **2 Credit(s)**
- BT 204 - Project Management **3 Credit(s)**

Notes:

¹ BA 169Z formerly offered as BA285/CIS125SS.

For more information, contact the Business Department:

Phone: 541-956-7500

Email: BusinessInfo@roguecc.edu

Web address: www.roguecc.edu/business

TTY: Oregon Telecom Relay Service, 711

Business

Associate of Applied Science

About the Program

The Business two-year degree provides an opportunity for students to learn about the business enterprises in society as well as prepare for various careers. This degree provides for flexibility in selecting elective classes while allowing students to investigate a wide range of areas within the business field. Students who want a general business foundation will be well served by the Business AAS degree. There are also two three program options should students want to pursue a specialized focus area. This program can be completed entirely through online delivery.

For students who desire employment as bookkeepers, accounting assistants and billing clerks, the Accounting Option provides advanced study in practical accounting.

Students who plan to supervise other workers or start their own business enterprises, will find the Management Option helpful to those career goals.

Students who are looking to work in sales, advertising, or e-commerce sectors, will find the Marketing Option well suited to those career goals.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Business Technology Associate of Applied Science are:

Analytical Skills

Utilize critical thinking by applying problem-solving techniques to various areas of business.

Technology

Use technology to assist with business operations.

Business Ethics

Apply established legal and ethical behaviors in business.

Business Communication

Use professional communication methods appropriate to business situations.

Employability Skills

Use the interpersonal skills necessary to preserve effective working relationships.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department Chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department head before being accepted toward core requirements. College Now credit will be accepted in accordance with the current articulation agreement.

Credits earned in the successful completion of this program can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

To graduate, students must complete all courses in this program with a grade of "C-" or better. Certain prerequisite courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90-91

Program email address: BusinessInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement.

Prerequisite Credits: 0-4

Fall

Check in with Advisor

- BA 101Z - Introduction to Business **4 Credit(s)**
- BA 131 - Introduction to Business Computing **4 Credit(s)**
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or higher-level math
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or higher-level writing course

- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term Credits: 15-16

Winter

- BA 120 - Human Relations in Organizations **3 Credit(s)**
- BT 160 - Business Math **4 Credit(s)**
- BA 223 - Principles of Marketing **3 Credit(s)**
- BT 103 - Writing for Business and Industry **4 Credit(s)**

Term Credits: 14

Spring

- BA 218 - Personal Finance **3 Credit(s)**
- BA 243 - Social Media Marketing **3 Credit(s)**
- BT 111 - Conflict Management **2 Credit(s)**
- BT 168 - Advanced Applications - Word **3 Credit(s)**
- BT 204 - Project Management **3 Credit(s)**

Term Credits: 14

Fall

Check in with Advisor

- BA 209 - Professional Workforce Preparation **2 Credit(s)**
- BA 211Z - Principles of Financial Accounting **4 Credit(s)**
- BT 105 - Business Ethics **3 Credit(s)**
- BT 106 - Advertising **3 Credit(s)** or approved program elective - 15 elective credits required
- ECON 115 - Introduction to Economics **3 Credit(s)**

Term Credits: 15

Winter

- BA 214 - Business Communications **4 Credit(s)**
- BA 224 - Human Resource Management **3 Credit(s)** or approved program elective - 15 elective credits required

- BT 112 - Leadership Essentials **2 Credit(s)**
- BT 121 - Digital Marketing and e-Commerce **3 Credit(s)** or approved program elective - 15 elective credits required
- BT 178 - Customer Service **3 Credit(s)**

Term Credits: 15

Spring

- BA 169Z - Data Analysis Using Microsoft Excel **4 Credit(s)**
- BA 226Z - Introduction to Business Law **4 Credit(s)**
- BA 238 - Effective Business Presentations **3 Credit(s)** or approved program elective - 15 elective credits required
- BT 250 - Entrepreneurship **3 Credit(s)** ¹ or approved program elective -15 elective credits required
- BT 265 - Writing a Business Plan - Capstone **3 Credit(s)** or BA 280

Term Credits: 17

Approved Program Electives

Select 15 credits from courses not otherwise required within the base program or option area.

Optimal electives have been built into the program map above. See your program advisor.

- ASL 101 - American Sign Language I **4 Credit(s)**
- ASL 102 - American Sign Language II **4 Credit(s)**
- ASL 103 - American Sign Language III **4 Credit(s)**
- BA 199 - Special Studies - Business **Var. (1-3) Credit(s)**
- BA 206 - Management Fundamentals **3 Credit(s)**
- BA 213Z - Principles of Managerial Accounting **4 Credit(s)**
- BA 224 - Human Resource Management **3 Credit(s)**
- BA 228 - Computer Accounting Applications **2 Credit(s)**
- BA 238 - Effective Business Presentations **3 Credit(s)**
- BA 230 - Payroll and Tax Procedures **3 Credit(s)**
- BA 280 - CWE - Business **Var. (1-12) Credit(s)**
- BT 106 - Advertising **3 Credit(s)**

- BT 121 - Digital Marketing and e-Commerce **3 Credit(s)**
- BT 122 - AI Literacy for Business **2 Credit(s)**
- BT 123 - Introduction to Supervision **3 Credit(s)**
- BT 250 - Entrepreneurship **3 Credit(s)**
- CIS 125DB - Advanced Applications - Access **3 Credit(s)**
- CIS 125PT - Advanced Applications - PowerPoint **2 Credit(s)**
- CIS 125V - Advanced Applications - Visio **1 Credit(s)**
- DDM 120 - Digital Graphic Design I **3 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- FR 101 - First Year French I **4 Credit(s)**
- FR 102 - First Year French II **4 Credit(s)**
- FR 103 - First Year French III **4 Credit(s)**
- SPAN 101 - First Year Spanish I **4 Credit(s)**
- SPAN 102 - First Year Spanish II **4 Credit(s)**
- SPAN 103 - First Year Spanish III **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**
- WR 227Z - Technical Writing **4 Credit(s)**

Notes:

¹ BA 169Z formerly offered as BA285/CIS125SS.

For more information, contact the Business Department:

Phone: 541-956-7500

Email: BusinessInfo@roquecc.edu

Web address: www.roquecc.edu/business

TTY: Oregon Telecom Relay Service, 711

Business - Accounting Option

Associate of Applied Science

About the Program

The Business two-year degree provides an opportunity for students to learn about the business enterprises in society as well as prepare for various careers. This degree provides for flexibility in selecting elective classes while allowing students to investigate a wide range of areas within the business field. Students who want a general business foundation will be well served by the Business AAS degree. There are also two three program options should students want to pursue a specialized focus area. This program can be completed entirely through online delivery.

For students who desire employment as bookkeepers, accounting assistants and billing clerks, the Accounting Option provides advanced study in practical accounting.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Business Technology Associate of Applied Science - Accounting Option are:

Analytical Skills

Utilize critical thinking by applying problem-solving techniques to various areas of business.

Technology

Use technology to assist with business operations.

Business Ethics

Apply established legal and ethical behaviors in business.

Business Communication

Use professional communication methods appropriate to business situations.

Employability Skills

Use the interpersonal skills necessary to preserve effective working relationships.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department Chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the

appropriate department head before being accepted toward requirements. College Now credit will be accepted in accordance with the current articulation agreement.

Credits earned in the successful completion of this program can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

To graduate, students must complete all courses in this program with a grade of "C-" or better. Certain prerequisite courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90-91

Program email address: BusinessInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement

Prerequisite Credits: 0-4

Fall

Check in with Advisor

- BA 101Z - Introduction to Business **4 Credit(s)**
- BA 131 - Introduction to Business Computing **4 Credit(s)**
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or higher-level math course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or higher-level writing course

Term Credits: 15-16

Winter

- BA 120 - Human Relations in Organizations **3 Credit(s)**
- BA 223 - Principles of Marketing **3 Credit(s)**
- BT 160 - Business Math **4 Credit(s)**

- BT 103 - Writing for Business and Industry **4 Credit(s)**

Term Credits: 14

Spring

- BA 211Z - Principles of Financial Accounting **4 Credit(s)**
- BA 243 - Social Media Marketing **3 Credit(s)**
- BT 204 - Project Management **3 Credit(s)**
- BT 111 - Conflict Management **2 Credit(s)**
- BT 168 - Advanced Applications - Word **3 Credit(s)**

Term Credits: 15

Fall

Check in with Advisor

- BA 209 - Professional Workforce Preparation **2 Credit(s)**
- BA 213Z - Principles of Managerial Accounting **4 Credit(s)**
- BA 230 - Payroll and Tax Procedures **3 Credit(s)**
- BT 105 - Business Ethics **3 Credit(s)**
- ECON 115 - Introduction to Economics **3 Credit(s)**

Term Credits: 15

Winter

- BA 218 - Personal Finance **3 Credit(s)**
- BA 214 - Business Communications **4 Credit(s)**
- BA 224 - Human Resource Management **3 Credit(s)** winter term only, or approved program elective (6 credits required)
- BT 112 - Leadership Essentials **2 Credit(s)**
- BT 178 - Customer Service **3 Credit(s)**

Term Credits: 15

Spring

- BA 169Z - Data Analysis Using Microsoft Excel **4 Credit(s)** ¹

- BA 226Z - Introduction to Business Law **4 Credit(s)**
- BA 228 - Computer Accounting Applications **2 Credit(s)**
- BT 265 - Writing a Business Plan - Capstone **3 Credit(s)** or BA 280
- BT 250 - Entrepreneurship **3 Credit(s)** (BT 250 winter term only), or approved program elective (6 credits required)

Term Credits: 16

Approved Program Electives

Select 6 credits from courses listed below.

Optimal electives have been built into the program map above. See your program advisor.

- ASL 101 - American Sign Language I **4 Credit(s)**
- ASL 102 - American Sign Language II **4 Credit(s)**
- ASL 103 - American Sign Language III **4 Credit(s)**
- BA 120 - Human Relations in Organizations **3 Credit(s)**
- BA 199 - Special Studies - Business **Var. (1-3) Credit(s)**
- BA 206 - Management Fundamentals **3 Credit(s)**
- BA 224 - Human Resource Management **3 Credit(s)**
- BA 238 - Effective Business Presentations **3 Credit(s)**
- BA 280 - CWE - Business **Var. (1-12) Credit(s)**
- BT 106 - Advertising **3 Credit(s)**
- BT 121 - Digital Marketing and e-Commerce **3 Credit(s)**
- BT 250 - Entrepreneurship **3 Credit(s)**
- CIS 125DB - Advanced Applications - Access **3 Credit(s)**
- CIS 125PT - Advanced Applications - PowerPoint **2 Credit(s)**
- CIS 125V - Advanced Applications - Visio **1 Credit(s)**
- DDM 120 - Digital Graphic Design I **3 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- FR 101 - First Year French I **4 Credit(s)**
- FR 102 - First Year French II **4 Credit(s)**
- FR 103 - First Year French III **4 Credit(s)**

- SPAN 101 - First Year Spanish I **4 Credit(s)**
- SPAN 102 - First Year Spanish II **4 Credit(s)**
- SPAN 103 - First Year Spanish III **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**
- WR 227Z - Technical Writing **4 Credit(s)**

Notes:

¹ BA 169Z formerly offered as BA285 / CIS125SS.

For more information, contact the Business Department:

Phone: 541-956-7500

Email: BusinessInfo@roquecc.edu

Web address: www.roquecc.edu/business

TTY: Oregon Telecom Relay Service, 711

Business - Management Option

Associate of Applied Science

About the Program

The Business two-year degree provides an opportunity for students to learn about the business enterprises in society as well as prepare for various careers. This degree provides for flexibility in selecting elective classes while allowing students to investigate a wide range of areas within the business field. Students who want a general business foundation will be well served by the Business AAS degree. There are also program options should students want to pursue a specialized focus area. This program can be completed entirely through online delivery.

Students who plan to supervise other workers or start their own business enterprises, will find the Management Option helpful to those career goals.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Business Technology - Management Track Associate of Applied Science are:

Analytical Skills

Utilize critical thinking by applying problem-solving techniques to various areas of business.

Technology

Use technology to assist with business operations.

Business Ethics

Apply established legal and ethical behaviors in business.

Business Communication

Use professional communication methods appropriate to business situations.

Employability Skills

Use the interpersonal skills necessary to preserve effective working relationships.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department Chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the

appropriate department head before being accepted toward core requirements. College Now credit will be accepted in accordance with the current articulation agreement.

Credits earned in the successful completion of this program can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

To graduate, students must complete all courses in this program with a grade of "C-" or better. Certain prerequisite courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits 90-91

Program email address: BusinessInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)**

Prerequisite Credits: 0-4

Fall

- BA 101Z - Introduction to Business **4 Credit(s)**
- BA 131 - Introduction to Business Computing **4 Credit(s)**
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or higher-level math
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term Credits: 15-16

Winter

- BA 120 - Human Relations in Organizations **3 Credit(s)**
- BA 223 - Principles of Marketing **3 Credit(s)**
- BT 103 - Writing for Business and Industry **4 Credit(s)**
- BT 160 - Business Math **4 Credit(s)**

Term Credits: 14

Spring

- BA 218 - Personal Finance **3 Credit(s)**
- BA 243 - Social Media Marketing **3 Credit(s)**
- BT 111 - Conflict Management **2 Credit(s)**
- BT 204 - Project Management **3 Credit(s)**
- BT 168 - Advanced Applications - Word **3 Credit(s)**

Term Credits: 14

Fall

- BA 209 - Professional Workforce Preparation **2 Credit(s)**
- BA 211Z - Principles of Financial Accounting **4 Credit(s)**
- BT 105 - Business Ethics **3 Credit(s)**
- BT 106 - Advertising **3 Credit(s)** or approved program elective (6 credits required)
- ECON 115 - Introduction to Economics **3 Credit(s)**

Term Credits: 15

Winter

- BA 206 - Management Fundamentals **3 Credit(s)**
- BA 214 - Business Communications **4 Credit(s)**
- BA 224 - Human Resource Management **3 Credit(s)**
- BT 112 - Leadership Essentials **2 Credit(s)**
- BT 178 - Customer Service **3 Credit(s)**

Term Credits: 15

Spring

- BA 169Z - Data Analysis Using Microsoft Excel **4 Credit(s)** ¹
- BA 226Z - Introduction to Business Law **4 Credit(s)**
- BT 123 - Introduction to Supervision **3 Credit(s)**
- BT 265 - Writing a Business Plan - Capstone **3 Credit(s)** or BA 280

- BT 250 - Entrepreneurship **3 Credit(s)** or approved program elective (6 credits required)

Term Credits: 17

Approved Program Electives

Select 6 credits from courses not otherwise required within the base program or option area. Optimal electives have been built into the guide above. See your program advisor.

- ASL 101 - American Sign Language I **4 Credit(s)**
- ASL 102 - American Sign Language II **4 Credit(s)**
- ASL 103 - American Sign Language III **4 Credit(s)**
- BA 199 - Special Studies - Business **Var. (1-3) Credit(s)**
- BA 213Z - Principles of Managerial Accounting **4 Credit(s)**
- BA 228 - Computer Accounting Applications **2 Credit(s)**
- BA 230 - Payroll and Tax Procedures **3 Credit(s)**
- BA 238 - Effective Business Presentations **3 Credit(s)**
- BA 280 - CWE - Business **Var. (1-12) Credit(s)**
- BT 106 - Advertising **3 Credit(s)**
- BT 121 - Digital Marketing and e-Commerce **3 Credit(s)**
- BT 250 - Entrepreneurship **3 Credit(s)**
- CIS 125DB - Advanced Applications - Access **3 Credit(s)**
- CIS 125PT - Advanced Applications - PowerPoint **2 Credit(s)**
- CIS 125V - Advanced Applications - Visio **1 Credit(s)**
- DDM 120 - Digital Graphic Design I **3 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- FR 101 - First Year French I **4 Credit(s)**
- FR 102 - First Year French II **4 Credit(s)**
- FR 103 - First Year French III **4 Credit(s)**
- SPAN 101 - First Year Spanish I **4 Credit(s)**
- SPAN 102 - First Year Spanish II **4 Credit(s)**
- SPAN 103 - First Year Spanish III **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**

- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**

Notes:

¹ BA 169Z formerly offered as BA285/CIS125SS.

For more information, contact the Business Department:

Phone 541-956-7500

Email BusinessInfo@roguecc.edu

Web address www.roguecc.edu/business

TTY Oregon Telecom Relay Service, 711

Business - Marketing Option

Associate of Applied Science

About the Program

The Business two-year degree provides an opportunity for students to learn about the business enterprises in society as well as prepare for various careers. This degree provides for flexibility in selecting elective classes while allowing students to investigate a wide range of areas within the business field. Students who want a general business foundation will be well served by the Business AAS degree. There are also program options should students want to pursue a specialized focus area. This program can be completed entirely through online delivery.

Students who are looking to work in sales, advertising, or e-commerce sectors, will find the Marketing Option well suited to those career goals.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Business Technology Associate of Applied Science Marketing Track are:

Analytical Skills

Utilize critical thinking by applying problem-solving techniques to various areas of business.

Technology

Use technology to assist with business operations.

Business Ethics

Apply established legal and ethical behaviors in business.

Business Communication

Use professional communication methods appropriate to business situations.

Employability Skills

Use the interpersonal skills necessary to preserve effective working relationships.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department Chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department head before being accepted toward core requirements. College Now credit will be accepted in accordance with the current articulation agreement.

Credits earned in the successful completion of this program can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

To graduate, students must complete all courses in this program with a grade of "C-" or better. Certain prerequisite courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits 90-91

Program email address: BusinessInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)**

Prerequisite Credits: 0-4

Fall

- BA 101Z - Introduction to Business **4 Credit(s)**
- BA 131 - Introduction to Business Computing **4 Credit(s)**
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or higher-level math
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term Credits: 15-16

Winter

- BA 120 - Human Relations in Organizations **3 Credit(s)**
- BA 223 - Principles of Marketing **3 Credit(s)**
- BT 103 - Writing for Business and Industry **4 Credit(s)**

- BT 160 - Business Math **4 Credit(s)**

Term Credits: 14

Spring

- BA 218 - Personal Finance **3 Credit(s)**
- BA 238 - Effective Business Presentations **3 Credit(s)**
- BA 243 - Social Media Marketing **3 Credit(s)**
- BT 111 - Conflict Management **2 Credit(s)**
- BT 168 - Advanced Applications - Word **3 Credit(s)**
- BT 204 - Project Management **3 Credit(s)**

Term Credits: 17

Fall

- BA 209 - Professional Workforce Preparation **2 Credit(s)**
- BA 211Z - Principles of Financial Accounting **4 Credit(s)**
- BT 105 - Business Ethics **3 Credit(s)**
- BT 106 - Advertising **3 Credit(s)**
- ECON 115 - Introduction to Economics **3 Credit(s)**

Term Credits: 15

Winter

- BA 214 - Business Communications **4 Credit(s)**
- BT 112 - Leadership Essentials **2 Credit(s)**
- BT 121 - Digital Marketing and e-Commerce **3 Credit(s)**
- BT 178 - Customer Service **3 Credit(s)**
- BA 224 - Human Resource Management **3 Credit(s)** or approved program elective – 6 elective credits required

Term Credits: 15

Spring

- BA 169Z - Data Analysis Using Microsoft Excel **4 Credit(s)** ¹

- BA 226Z - Introduction to Business Law **4 Credit(s)**
- BT 265 - Writing a Business Plan - Capstone **3 Credit(s)** or BA 280
- BT 123 - Introduction to Supervision **3 Credit(s)** spring term only or approved program elective - 6 elective credits required

Term Credits: 14

Approved Program Electives

Select 6 credits from courses not otherwise required within the base program or option area. Optimal electives have been built into the program map above. See your program advisor.

- ASL 101 - American Sign Language I **4 Credit(s)**
- ASL 102 - American Sign Language II **4 Credit(s)**
- ASL 103 - American Sign Language III **4 Credit(s)**
- BA 199 - Special Studies - Business **Var. (1-3) Credit(s)**
- BA 206 - Management Fundamentals **3 Credit(s)**
- BA 213Z - Principles of Managerial Accounting **4 Credit(s)**
- BA 224 - Human Resource Management **3 Credit(s)**
- BA 228 - Computer Accounting Applications **2 Credit(s)**
- BA 230 - Payroll and Tax Procedures **3 Credit(s)**
- BA 280 - CWE - Business **Var. (1-12) Credit(s)**
- BT 123 - Introduction to Supervision **3 Credit(s)**
- CIS 125DB - Advanced Applications - Access **3 Credit(s)**
- CIS 125PT - Advanced Applications - PowerPoint **2 Credit(s)**
- CIS 125V - Advanced Applications - Visio **1 Credit(s)**
- DDM 120 - Digital Graphic Design I **3 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- FR 101 - First Year French I **4 Credit(s)**
- FR 102 - First Year French II **4 Credit(s)**
- FR 103 - First Year French III **4 Credit(s)**
- SPAN 101 - First Year Spanish I **4 Credit(s)**
- SPAN 102 - First Year Spanish II **4 Credit(s)**

- SPAN 103 - First Year Spanish III **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**
- WR 227Z - Technical Writing **4 Credit(s)**

Notes:

¹ BA 169Z formerly offered as BA285/CIS125SS.

For more information, contact the Business Department:

Phone 541-956-7500

Email BusinessInfo@roguecc.edu

Web address www.roguecc.edu/business

TTY Oregon Telecom Relay Service, 711

Business - Associate of Science Oregon Transfer Degree

About the Program

The statewide Associate of Science Oregon Transfer degree in Business is designed for students transferring to baccalaureate degree programs as business majors. Those completing the ASOT-Business degree are assured junior level standing for registration purposes and will have met the lower division general education requirements of any Oregon public university. Grade point average requirements for entry into the university's major are not necessarily satisfied by the ASOT - Business degree. Students should be aware that if they transfer before completing this degree, courses will be evaluated individually toward the general education requirements of the college of their choice. This program can be completed entirely through online delivery.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Associate of Science Oregon Transfer - Business are:

Analytical Skills

Develop critical thinking by applying problem-solving techniques to various areas of business.

Technology

Use technology to assist with business operations.

Fundamentals of Accounting

Develop a comprehensive understanding of fundamental accounting concepts.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department Chair's approval. In order to ensure coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward course requirements.

Graduation Requirements

Students must complete a minimum of 90 term credits of lower division collegiate courses with a minimum grade of "C-" or better. Students must have a minimum cumulative GPA of 2.0 at the time the ASOT-Business is awarded.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate classes in any given term. When transferring to a public four-year Oregon university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language, or
2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. Additionally, if students intend to complete a Bachelor of Arts (B.A.) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Completing the first year of the college language sequence in terms 3-6 at RCC sets students up for the second-year sequence when they transfer. Students should inquire with their intended receiving institution for world language requirements.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90

Program email address: BusinessInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 95 - Intermediate Algebra **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement. If taken, this will count as an elective.
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement.

Prerequisite Credits: 0-8

Fall

Check in with Advisor

- BA 131 - Introduction to Business Computing **4 Credit(s)**
- SOC 204Z - Introduction to Sociology **4 Credit(s)** ¹ or approved Social Science transfer course
- STAT 243Z - Elementary Statistics I **4 Credit(s)**

- WR 121Z - Composition I **4 Credit(s)** ²

Term Credits: 16

Winter

- BA 101Z - Introduction to Business **4 Credit(s)** ³
- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 218Z
- MTH 111Z - Precalculus I - Functions **4 Credit(s)** Math course dependent on transferring institution; Speak with an advisor
- WR 227Z - Technical Writing **4 Credit(s)** ² or WR 122Z

Term Credits: 16

Spring

- ART 204 - Prehistoric to Gothic Art **4 Credit(s)** ¹ or approved Humanities transfer course
- BA 211Z - Principles of Financial Accounting **4 Credit(s)**
- BA 226Z - Introduction to Business Law **4 Credit(s)**
- GS 104 - Physical Science - Physics **3 Credit(s)** or approved Lab Science transfer course
- GS 104L - Physical Science - Physics Lab **1 Credit(s)** or approved Lab Science transfer course

Term Credits: 16

Fall

Check in with Advisor

- BA 213Z - Principles of Managerial Accounting **4 Credit(s)**
- BI 101 - Introduction to Biology I **3 Credit(s)** or approved Lab Science transfer course
- BI 101L - Introduction to Biology I Lab **1 Credit(s)** or approved Lab Science transfer course
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)** ¹ or approved Humanities transfer course

Term Credits: 16

Winter

- BI 102 - Introduction to Biology II **3 Credit(s)** or approved Lab Science transfer course

- BI 102L - Introduction to Biology II Lab **1 Credit(s)** or approved Lab Science transfer course
- MTH 244 - Inferential Statistics **4 Credit(s)** or MTH 112Z - math course dependent on transferring institution - speak with an advisor.
- PHL 102 - Ethics **4 Credit(s)** or approved Humanities transfer course

Term Credits: 12

Spring

- ART 131 - Introduction to Drawing - Value **3 Credit(s)** Elective class - check in with advisor to see if this is needed and appropriate for path. Up to 8 elective credits, if needed.
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- G 100 - Fundamentals of Geology **3 Credit(s)** or any approved Science transfer course
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)** ¹ or approved Social Science transfer course

Term Credits: 14

Mathematics

Three courses required. Students should consult university-specific information to determine any additional mathematics requirements.

- STAT 243Z - Elementary Statistics I **4 Credit(s)**

Plus, two additional Math courses from the following list:

- MTH 111Z - Precalculus I - Functions **4 Credit(s)**
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)**
- MTH 211 - Fundamentals of Elementary Math I **4 Credit(s)**
- MTH 212 - Fundamentals of Elementary Math II **4 Credit(s)**
- MTH 213 - Fundamentals of Elementary Math III **4 Credit(s)**
- MTH 244 - Inferential Statistics **4 Credit(s)**
- MTH 251Z - Differential Calculus **4 Credit(s)**
- MTH 252Z - Integral Calculus **4 Credit(s)**
- MTH 253Z - Calculus - Sequences and Series **4 Credit(s)**
- MTH 254 - Calculus IV - Vector Calculus **5 Credit(s)**
- MTH 256 - Differential Equations **5 Credit(s)**

- MTH 261 - Linear Algebra **5 Credit(s)**

Distribution Requirements

Must include one course from any discipline that meets the statewide criteria for cultural literacy.¹

Humanities (9-12 Credits)

Choose three courses from at least two disciplines/prefixes. Courses must be at least 3 credits each and exclude first-year world language courses; second-year world language is acceptable.

- ART 115 - Basic Design - Composition **3 Credit(s)**
- ART 116 - Basic Design - Color Theory **3 Credit(s)**
- ART 131 - Introduction to Drawing - Value **3 Credit(s)**
- ART 132 - Introduction to Drawing - Line **3 Credit(s)**
- ART 133 - Intro to Drawing - Mixed Media **3 Credit(s)**
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**¹
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**¹
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**¹
- COMM 100Z - Introduction to Communication **4 Credit(s)**
- COMM 115 - Intercultural Communication **4 Credit(s)**¹
- COMM 201 - Media and Society **4 Credit(s)**
- COMM 225 - Small Group Communication **4 Credit(s)**
- COMM 237 - Communication and Gender **4 Credit(s)**
- COMM 270 - Argumentation and Debate **3 Credit(s)**
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**¹
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**¹
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**¹
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**

- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 257 - African American Literature **4 Credit(s)** ¹
- ENG 260 - Introduction to Women Writers **4 Credit(s)** ¹
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)** ¹
- HUM 102 - Introduction to Humanities II **4 Credit(s)** ¹
- HUM 103 - Introduction to Humanities III **4 Credit(s)** ¹
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)** ¹
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)** ¹
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)** ¹
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)** ¹
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)** ¹
- IS 110 - Intro to International Studies **4 Credit(s)** ¹
- MUS 101 - Music Fundamentals **3 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)** ¹
- MUS 201 - Intro to Music History **4 Credit(s)** ¹
- MUS 205 - History of Jazz **3 Credit(s)** ¹
- MUS 206 - Introduction to Rock Music **3 Credit(s)** ¹
- MUS 208 - Film Music **3 Credit(s)**
- MUS 111 - Music Theory I **3 Credit(s)**
- MUS 112 - Music Theory II **3 Credit(s)**
- MUS 113 - Music Theory III **3 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**

- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)** ¹
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)** ¹
- SPAN 201 - Second Year Spanish I **4 Credit(s)** ¹
- SPAN 202 - Second Year Spanish II **4 Credit(s)** ¹
- SPAN 203 - Second Year Spanish III **4 Credit(s)** ¹
- TA 141 - Fundamentals of Acting I **4 Credit(s)**
- TA 142 - Fundamentals of Acting II **4 Credit(s)**
- TA 143 - Fundamentals of Acting III **4 Credit(s)**
- TA 144 - Improvisational Theater I **4 Credit(s)**
- TA 145 - Improvisational Theater II **4 Credit(s)**
- TA 146 - Improvisational Theater III **4 Credit(s)**
- TA 153 - Theater Rehearsal and Performance **Var. (1-4) Credit(s)**

Social Science (7-8 Credits)

Choose two social science elective courses from the following list: 7-8 credits.

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)** ¹
- ANTH 150 - Introduction to Archaeology **4 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- GEOG 110 - Introduction to Human Geography **4 Credit(s)** ¹
- GEOG 120 - World Regional Geography **4 Credit(s)**
- HST 104 - World Civ Prehistory - Middle Ages **4 Credit(s)** ¹
- HST 105 - World Civ Byzantium - Present **4 Credit(s)** ¹
- HST 201 - US History through Reconstruction **4 Credit(s)** ¹
- HST 202 - US HST Post Reconstruction-Present **4 Credit(s)** ¹
- PS 201 - US Gov Institutions and Policy **4 Credit(s)**

- PS 202 - US Gov Ideologies and Engagement **4 Credit(s)**
- PS 203 - State and Local Government **4 Credit(s)**
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**
- PSY 202Z - Introduction to Psychology II **4 Credit(s)**
- PSY 215 - Lifespan Human Development **4 Credit(s)**
- PSY 219 - Introduction to Abnormal Psychology **4 Credit(s)**
- PSY 228 - Introduction to Positive Psychology **4 Credit(s)**
- PSY 231 - Human Sexuality **3 Credit(s)**
- SOC 204Z - Introduction to Sociology **4 Credit(s)** ¹
- SOC 205Z - Social Change and Institutions **4 Credit(s)** ¹
- SOC 206Z - Social Problems **4 Credit(s)** ¹
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)** ¹
- SOC 218 - Sociology of Gender **4 Credit(s)**
- SOC 221 - Juvenile Delinquency **4 Credit(s)**
- SOC 228 - Environment and Society **4 Credit(s)** ¹
- SOC 230 - Aging and Society **4 Credit(s)**
- SOC 235 - Chicano-a and Latino-a US History **4 Credit(s)** ¹ or HST 259 ¹
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- SOC 244 - Introduction to Criminology **4 Credit(s)**

Science (15-17 Credits)

Complete four courses from at least two disciplines/prefixes from the following list, three of which must be lab courses.

- BI 100SB - Biology of Human Body Systems **3 Credit(s)** (non-lab course)
- BI 101 - Introduction to Biology I **3 Credit(s)** and BI 101L
- BI 102 - Introduction to Biology II **3 Credit(s)** and BI 102L
- BI 103 - Introduction to Biology III **3 Credit(s)** and BI 103L
- BI 121 - Elem Anatomy - Physiology I **3 Credit(s)** and BI 121L
- BI 122 - Intro Anatomy - Physiology II **3 Credit(s)** and BI 122L
- BI 221Z - Principles of Biology - Cells **5 Credit(s)**
- BI 222Z - Principles of Biology - Organisms **5 Credit(s)**

- BI 223Z - Principles of Bio - Ecology and Evo **5 Credit(s)**
- BI 231 - Anatomy and Physiology I **3 Credit(s)** and BI 231L
- BI 232 - Anatomy and Physiology II **3 Credit(s)** and BI 232L
- BI 233 - Anatomy and Physiology III **3 Credit(s)** and BI 233L
- BI 234 - Microbiology **3 Credit(s)** and BI 234L
- CHEM 104 - Introductory Chemistry **4 Credit(s)** and CHEM 104L
- CHEM 105 - Introductory Organic Chemistry **3 Credit(s)** and CHEM 105L
- CHEM 106 - Introductory Biochemistry **3 Credit(s)** and CHEM 106L
- G 100 - Fundamentals of Geology **3 Credit(s)** (non-lab course)
- G 101 - Intro to Geology I **3 Credit(s)** and G 101L
- G 102 - Intro to Geology II Surface Process **3 Credit(s)** and G 102L
- G 103 - Intro to Geology III Historical **3 Credit(s)** and G 103L
- GS 104 - Physical Science - Physics **3 Credit(s)** and GS 104L
- GS 107 - Physical Science - Astronomy **3 Credit(s)** and GS 107L
- GS 108 - Physical Science - Oceanography **3 Credit(s)** and GS 108L

Electives

Complete a sufficient number of transfer-level elective (numbered 100 and above) courses to meet the total degree requirements of at least 90 credits.

Notes:

¹ Meets cultural literacy criteria (one course required).

² Students who took writing classes of 3 credits each must have WR 121Z, WR 122Z and either WR123 or WR 227Z. Students taking classes of 4 credits each must take WR 121Z and either WR 122Z or WR 227Z.

³ Students who have completed BA 101Z as a 3-credit course have met this requirement.

For more information, contact the Business Department:

Phone: 541-956-7500

Email: BusinessInfo@roquecc.edu

Web address: www.roquecc.edu/business

TTY: Oregon Telecom Relay Service, 711

Business Transfer to SOU

Associate of Science

About the Program

The Associate of Science degree (Business) has been developed with the cooperation and support of Southern Oregon University (SOU). The degree is articulated with SOU's Business program. The program offers an excellent balance of business and general education courses that support advanced study in the field of business. This program can be completed entirely through online delivery.

Students should contact the SOU School of Business early in the first year of the program to be advised about additional requirements and procedures for admission to the school or program.

Students should be aware that if they transfer before completing this degree, courses will be evaluated individually toward the general education requirements in effect at SOU.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Associate of Science Business Transfer to Southern Oregon University are:

Analytical Skills

Develop critical thinking skills by applying problem-solving techniques to various areas of business.

Technology

Use technology to assist with business operations.

Accounting Fundamentals

Develop a comprehensive understanding of fundamental accounting concepts.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department chair's approval. In order to ensure coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward course requirements.

Graduation Requirements

Students must complete a minimum of 90 term credits of lower division collegiate courses with a minimum grade of "C-" or better.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor for any questions in preparing to complete your transfer degree.

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Total Program Credits: 90-91

Program email address: BusinessInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 95 - Intermediate Algebra **4 Credit(s)**
- WR 115 - Introduction to Expository Writing **3 Credit(s)** If taken, will count as an elective
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required by placement

Prerequisite Credits: 0-8

Fall

Check in with Advisor

- BA 101Z - Introduction to Business **4 Credit(s)**
- BA 131 - Introduction to Business Computing **4 Credit(s)**
- STAT 243Z - Elementary Statistics I **4 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 16

Winter

- BA 169Z - Data Analysis Using Microsoft Excel **4 Credit(s)** ¹ Elective needed to meet 90 credit minimum.
- BA 218 - Personal Finance **3 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)** or approved Humanities transfer course (credits vary)
- WR 122Z - Composition II **4 Credit(s)**

Term Credits: 15

Spring

- BA 226Z - Introduction to Business Law **4 Credit(s)**
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)** or approved Humanities transfer course (credits vary)
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- G 100 - Fundamentals of Geology **3 Credit(s)** or approved Science transfer course (credits vary)

Term Credits: 15

Fall

Check in with Advisor

- BA 211Z - Principles of Financial Accounting **4 Credit(s)**
- BI 101 - Introduction to Biology I **3 Credit(s)** or approved Lab Science transfer course (credits vary)
- BI 101L - Introduction to Biology I Lab **1 Credit(s)** or approved Lab Science transfer course (credits vary)
- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 218Z or COMM 225
- SPAN 101 - First Year Spanish I **4 Credit(s)** or SPAN 201; Elective needed to meet 90 credit minimum.

Term Credits: 16

Winter

- BA 213Z - Principles of Managerial Accounting **4 Credit(s)**
- BA 282 - Applied Business Statistics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- SPAN 102 - First Year Spanish II **4 Credit(s)** or SPAN 202; Elective needed to meet 90 credit minimum.

Term Credits: 16

Spring

- BI 103 - Introduction to Biology III **3 Credit(s)** or approved Lab Science transfer course (credits vary)
- BI 103L - Introduction to Biology III Lab **1 Credit(s)** or approved Lab Science transfer course (credits vary)

- MUS 210 - Music in World Cultures **4 Credit(s)** or approved Humanities transfer course (credits vary)
- WR 227Z - Technical Writing **4 Credit(s)**

Term Credits: 12

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Humanities

Complete at least three courses from the following list, 9-12 credits. For a list of SOU's General Education Capacities please go to their website.

- ART 131 - Introduction to Drawing - Value **3 Credit(s)**
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- COMM 115 - Intercultural Communication **4 Credit(s)**
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 257 - African American Literature **4 Credit(s)**

- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**
- TA 141 - Fundamentals of Acting I **4 Credit(s)**

- WR 241 - Imaginative Writing I **4 Credit(s)**
- WR 242 - Imaginative Writing II **4 Credit(s)**
- WR 243 - Imaginative Writing III **4 Credit(s)**

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Science and Lab Science Electives

Select three courses from the following list – at least two courses must have labs.

Note that only one course can be a regional field studies course indicated by asterisk.

For a list of SOU's General Education Capacities please go to their website.

- BI 100SB - Biology of Human Body Systems **3 Credit(s)** (non-lab course)
- BI 101 - Introduction to Biology I **3 Credit(s)** and BI 101L
- BI 102 - Introduction to Biology II **3 Credit(s)** and BI 102L
- BI 103 - Introduction to Biology III **3 Credit(s)** and BI 103L
- BI 121 - Elem Anatomy - Physiology I **3 Credit(s)** and BI 121L
- BI 122 - Intro Anatomy - Physiology II **3 Credit(s)** and BI 122L
- BI 221Z - Principles of Biology - Cells **5 Credit(s)**
- BI 222Z - Principles of Biology - Organisms **5 Credit(s)**
- BI 223Z - Principles of Bio - Ecology and Evo **5 Credit(s)**
- BI 231 - Anatomy and Physiology I **3 Credit(s)** and BI 231L
- BI 232 - Anatomy and Physiology II **3 Credit(s)** and BI 232L
- BI 233 - Anatomy and Physiology III **3 Credit(s)** and BI 233L
- BI 234 - Microbiology **3 Credit(s)** and BI 234L
- CHEM 104 - Introductory Chemistry **4 Credit(s)** and CHEM 104L
- CHEM 105 - Introductory Organic Chemistry **3 Credit(s)** and CHEM 105L
- CHEM 106 - Introductory Biochemistry **3 Credit(s)** and CHEM 106L
- CIS 195 - Web Authoring I **4 Credit(s)** (non-lab course)
- ENV 111 - Intro to Environmental Science **3 Credit(s)** (non-lab course)
- G 100 - Fundamentals of Geology **3 Credit(s)** (non-lab course)
- G 101 - Intro to Geology I **3 Credit(s)** and G 101L

- G 102 - Intro to Geology II Surface Process **3 Credit(s)** and G 102L
- G 103 - Intro to Geology III Historical **3 Credit(s)** and G 103L
- GEOG 100 - Introduction to Physical Geography **3 Credit(s)** (non-lab course)
- GS 104 - Physical Science - Physics **3 Credit(s)** and GS 104L
- GS 107 - Physical Science - Astronomy **3 Credit(s)** and GS 107L
- GS 108 - Physical Science - Oceanography **3 Credit(s)** and GS 108L
- GS 170 - Regional Field Studies **3 Credit(s)** and GS 170L *
- PH 201 - General Physics I **4 Credit(s)** and PH 201L
- PH 202 - General Physics II **4 Credit(s)** and PH 202L
- PH 203 - General Physics III **4 Credit(s)** and PH 203L
- PH 211 - General Physics - Calculus I **4 Credit(s)** and PH 211L
- PH 212 - General Physics - Calculus II **4 Credit(s)** and PH 212L
- PH 213 - General Physics - Calculus III **4 Credit(s)** and PH 213L

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Electives

Complete a sufficient number of transfer-level elective (numbered 100 and above) courses to meet the total degree requirements of at least 90 credits. A maximum of 12 career and technical course credits may be used towards the degree.

Notes:

¹ BA 169Z formerly offered as BA285/CIS125SS.

For more information, contact the Business Department:

Phone: 541-956-7500

Email: BusinessInfo@roquecc.edu

Web address: www.roquecc.edu/business

TTY: Oregon Telecom Relay Service, 711

Business

Associate of Science Transfer

About the Program

A Major Transfer Map Curriculum and Articulation Policy (MTM CAP) is for students transferring from a participating Oregon community college to any participating Oregon university who know which major/bachelor's degree program they want to pursue. The MTM CAPs identify the optimal and specific set of lower division courses students must take to transfer efficiently into the major at the university. The successful completion of the major transfer map allows students to receive the number of academic credits referenced in this MTM CAP, and comparable standing to the status of students with the same number of academic credits in the major course of study who began their postsecondary studies at the public university. MTM CAPs must include at least 30-credits of general education defined by the Core Transfer Map (CTM). MTM CAPs may choose to specify relevant or required General Education courses as part of the 30-credit CTM component of the MTM CAP. Receiving institutions will not require students to retake a course if the minimum grade requirements, specified in this agreement, have been met.

If students complete a Major Transfer Map and meet public university admissions requirements, they are guaranteed transfer to a participating Oregon four-year public university with junior standing, and their coursework will count toward a bachelor's degree in that specific major. On this page, educators and partners can find the current list of approved MTMs, as well as information guiding the ongoing implementation of MTMs in Oregon.

For additional information, refer to the Higher Education Coordinating Commission Transfer Map website.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Upon completion of the AST in Business, students will be able to:

Explain basic business functions and their integration into the business environment.

Integrate diverse cultural perspectives and ethical reasoning and actions into business decisions.

Demonstrate effective oral and written communication skills.

Apply critical thinking and analytical reasoning skills to business decisions.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Department Chair approval. In order to ensure coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward course requirements.

Graduation Requirements

Students must complete a minimum of 90 term credits of lower division collegiate courses with a minimum grade of "C-" or better. Students must have a minimum cumulative GPA of 2.0 at the time the Business Associate of Science Transfer is awarded. Students should also refer to the Higher Education Coordinating Commission Transfer Map website for additional course GPA requirements that may be applicable at their transfer institution.

Core Transfer Requirements

See an advisor for recommended courses.

Category	Course	Credits
Writing - One course	WR 121Z	4
Arts & Letters - 1st course	Select from AAOT course list	3-4
Arts & Letters - 2nd course	Select from AAOT course list	3-4
Social Sciences - 1st course	ECON 201Z	4
Social Sciences - 2nd course	ECON 202Z	4
Natural Sciences - 1st course	Lab Science from AAOT course list	4-5
Natural Sciences - 2nd course	Lab Science from AAOT course list	4-5
Mathematics - One course	MTH 105Z or higher* (*MTH 111Z must be taken for UO, OIT, and OSU prior to transfer.)	4-5

At least 1 Core Transfer Requirement course must also satisfy Cultural Literacy outcomes for AAOT.

Core Transfer Requirement Total: 30-35

Additional General Education Courses

Category	Course	Credits
Writing	WR 227Z	4
Communications	COMM 111Z	4

Additional General Education Courses Total: 8

Business Courses

Category	Course	Credits
Excel Skills	BA 169Z	4
Introduction to Business	BA 101Z	4
Financial and Managerial Accounting - 1st Course	BA 211Z	4
Financial and Managerial Accounting - 2nd Course	BA 213Z	4
Business Law	BA 226Z	4
Statistics	STAT 243Z * or BA 275	4

Business Major Total: 24

Additional courses to reach 90 credits

See an advisor for recommended courses.

At this point [above = 62-67 credits], it is recommended students pursue these options:

1. Take courses that will apply to their minor of choice, that will transfer to the Oregon public university of their choice (work with an advisor).
2. Take courses that will apply to the general education or the major at the Oregon public university of their choice (work with an advisor).
3. Take electives to reach 90 credits, that will transfer to the Oregon public university of their choice (work with an advisor).

** Additional math and/or statistics may be required by the transfer university and can be taken before transferring. See the post-transfer crosswalk for additional math requirements.**

MTM Total 90 credits

For more information, contact the Business Department:

Phone: 541-956-7500

Email: BusinessInfo@roguecc.edu

Web address: www.roguecc.edu/business

TTY: Oregon Telecom Relay Service, 711

Health Professions, Public Safety Pathway

Basic Patient Services

Career Pathway Certificate

About the Program

The Basic Patient Services Career Pathway Certificate prepares students for work in entry-level positions in the health care industry. Students will gain knowledge and skills required to meet workforce requirements while fulfilling prerequisites to Special Admission programs within Allied Health which are in high demand in our region. This program is targeted for high school students and returning adult learners who are considering a career in health care to help guide interests and learn basic skills such as medical terminology and introduction to human body systems.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Basic Patient Services Career Pathway Certificate of Completion are:

Describe medical terminology used in various health care environments.

Identify skills and training required for healthcare positions.

Explain legal and ethical standards for confidentiality and patient privacy.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. It is important that students work closely with an advisor to select courses appropriate to their career goal(s).

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure coursework is current, program courses over seven years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. College Now credit earned in conjunction with local high schools will be accepted in accordance with the current agreement.

Completion Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive their certificates. Certain prerequisite and required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement, or higher-level math
- WR 115 - Introduction to Expository Writing **3 Credit(s)** (and WR 115Q as required based on placement), or designated placement, or higher-level composition course

Prerequisite Credits: 0-8

Required Courses:

- AH 100 - Medical Terminology - Introduction **3 Credit(s)**
- AH 111 - Healthcare Communication **1 Credit(s)**
- AH 123 - Healthcare Legal and Ethical Issues **2 Credit(s)**
- CG 155 - Exploring Careers in Health Care **3 Credit(s)**
- HE 261 - CPR - Basic Life Support Provider **1 Credit(s)** ¹
- Approved program elective(s) **2-6 Credit(s)** ²

Total Program Credits: 12-16

Electives

(2-6 credits required as needed to meet total program minimum credits)

Any combination of 2-6 credits from the courses listed below will meet program requirements.

Additional coursework is required beyond Basic Patient Services Career Pathway Certificate courses to complete expanded certificate or degree programs.

- AH 22 - Healthcare Calculations **3 Credit(s)**
- AH 101 - Medical Assistant I Administrative **3 Credit(s)**
- AH 104 - Phlebotomy **3 Credit(s)**
- AH 110 - Medical Terminology - Clinical **3 Credit(s)**
- AH 130 - Medical Insurance and Billing **4 Credit(s)**
- AH 202 - Healthcare Infection Control **1 Credit(s)**
- AH 280 - CWE - Allied Health **Var. (1-12) Credit(s)**
- BA 120 - Human Relations in Organizations **3 Credit(s)**

- BA 131 - Introduction to Business Computing **4 Credit(s)** ³
- BI 100SB - Biology of Human Body Systems **3 Credit(s)**
- CIS 120 - Concepts in Computing I **2 Credit(s)**
- COMM 218Z - Interpersonal Communication **4 Credit(s)**
- ES 105 - Introduction to Emergency Services **4 Credit(s)**
- HC 100 - Community Health Worker **6 Credit(s)**
- HE 250 - Personal Health **3 Credit(s)**
- HPE 295 - Health and Fitness for Life **3 Credit(s)**
- NFM 225 - Nutrition **4 Credit(s)**
- PRX 101 - Pharmacy Technician I **4 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)**

Notes:

¹ Course can be taken within program. See program advisor if you have American Heart Association (AHA) BLS Provider certification. AHA must remain current for the duration of the program.

² Some courses listed may require additional pre-requisite(s).

³ For students pursuing the Medical Assisting Administrator AAS, take BA 131 instead of CIS 120.

For more information, contact the Allied Health Occupations office:

Phone: 541-956-7500

Email: AlliedHealthInfo@roquecc.edu

Web address: www.roquecc.edu/alliedhealth

TTY: Oregon Telecom Relay Service, 711

Emergency Medical Services - EMT

Career Pathway Certificate

About the Program

The Emergency Medical Technician (EMT) two-term pathway certificate offers career training for entry-level personnel in EMT. Successful completion of the EMT course leads to eligibility to sit for the state and National Registry EMT exams. Successful completion of the curriculum leads to a two-term RCC pathway certificate and the ability to apply for positions as an EMT in hospital emergency departments and ambulance services. It is also the minimum requirement for some firefighter positions.

Credit for Prior Learning

Students may be eligible to receive credit toward a certificate or degree based on demonstrated competency of the course learning outcomes from prior learning, training, or experiences. For more information, consult your advisor or a program representative.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Emergency Medical Services EMT Career Pathway Certificate are:

Perform an adequate patient assessment and formulate and implement a treatment plan for patients with a variety of medical and traumatic emergencies.

Demonstrate effective communication, cultural competency, and conflict management and intervention skills for people in crisis in simulated emergencies.

Implement self-care strategies and techniques to address the impact of stress and emotional trauma on emergency providers.

Demonstrate workplace expectations regarding attendance, safety, conduct, and professionalism.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

This program requires an application and satisfaction of certain course admission criteria prior to enrolling in the EMT courses (ES 131, ES 132). Information is available on the Emergency Medical Services (EMS) Department website or at the Emergency Services (ES) Department office located at the RCC Table Rock Campus. Students are strongly encouraged to meet with an ES Department advisor prior to beginning any coursework.

Students must be at least 17 years old to apply to the EMT course. Students must be a high school graduate or have a GED or equivalent to be eligible to sit for the state and National Registry EMT exams. In addition, students will be required to complete all screening requirements outlined in OAR 409-030-0190 and additional RCC requirements.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Emergency Services (ES) Department Chair's recommendation. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the ES Department chair before being accepted toward core requirements.

Completion Requirements

Students completing all credits outlined in this program with a grade of "C-" or better will earn an EMT pathway certificate. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 25-32

Program Email Address: EmergencyServicesInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement

Prerequisite Credits: 0-4

Term 1

Check in with Advisor

- ES 105 - Introduction to Emergency Services **4 Credit(s)**
- ES 131 - Emergency Medical Technician I **6 Credit(s)**
- ES 106 - Communications - Emergency Services **3 Credit(s)**

Term Credits: 13

Term 2

- ES 132 - Emergency Medical Technician II **6 Credit(s)** (Note: ES 131 must be taken in prior term.)
- ES 171 - Emergency Vehicle Operations **2 Credit(s)**
- ES 268 - Emergency Service Rescue **3 Credit(s)**
- Approved program elective (see list below). Check with advisor.

Term Credits: 12

Approved Electives (1-8 Credits Allowed)

- Any college-level (100 or 200 numbered) transferrable non-studio humanities, social science, or science electives (variable credits), **and/or**
- Any EMS, ES or FRP 100 or higher course (variable credits)
- ES 205 - Crisis Recognition and Care **3 Credit(s)**
- ES 295 - Emergency Services Wellness **3 Credit(s)**
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or **MTH 102CT** or higher-level math course
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course

For more information, contact the Emergency Services Department:

Phone: 541-956-7500

Email: EmergencyServicesInfo@roguecc.edu

Web address: www.roguecc.edu/emergencyservices

TTY: Oregon Telecom Relay Service, 711

Firefighter

Career Pathway Certificate

About the Program

The fire service is a highly dynamic profession that offers a variety of daily challenges to the professionals who work within it. The primary mission of the RCC Fire Science program is to prepare students for careers as firefighters. Students who complete this three-term program will have met the requirements set by regional fire departments in Southern Oregon for the entry-level position of firefighter. The program delivers the highest education available by following standards set by the National Fire Protection Association (NFPA) and the Fire Emergency Services Higher Education (FESHE) program. Fire Science program coursework is accredited by the Oregon Department of Public Safety Standards and Training.

Credit for Prior Learning

Students may be eligible to receive credit toward a certificate or degree based on demonstrated competency of the course learning outcomes from prior learning, training, or experiences. For more information, consult your advisor or a program representative.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Fire Science Firefighter Career Pathway Certificate are:

Perform safe and effective fire suppression techniques and hazard mitigation utilizing tools and appliances under high levels of stress.

Perform an adequate patient assessment and formulate and implement a treatment plan for patients with a variety of medical and traumatic emergencies.

Demonstrate leadership, teamwork and decision-making in the management of multiple personnel on emergency scenes.

Describe and use defensive and safe driving techniques and the operation of emergency vehicles and fire pumps.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. The Fire Science program advisor will work with each student to design an individualized sequence of instruction.

Students must be at least 17 years old to apply to the ES 131 course. Students must be a high school graduate or have a GED or equivalent for certification. In addition, students will be required to complete all screening requirements outlined in OAR 409-030-0190 and additional RCC requirements.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Fire Science Program Coordinator's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Completion Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their certificate. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 38

Program Email Address: EmergencyServicesInfo@roquecc.edu

Term 1

Check in with Advisor

- FRP 251 - Firefighter Essentials I **8 Credit(s)** ¹
- FRP 256 - Fire Behavior and Combustion **2 Credit(s)**
- FRP 261 - HazMat Awareness and Operations **2 Credit(s)**

Term Credits: 12

Term 2

- ES 131 - Emergency Medical Technician I **6 Credit(s)**
- FRP 233 - Firefighter Safety and Survival **3 Credit(s)**
- FRP 252 - Firefighter Essentials II **4 Credit(s)**

Term Credits: 13

Term 3

- ES 105 - Introduction to Emergency Services **4 Credit(s)**
- ES 106 - Communications - Emergency Services **3 Credit(s)**
- ES 132 - Emergency Medical Technician II **6 Credit(s)**

Term Credits: 13

Notes:

¹ FRP 251 taken previously for 8 credits but with a separate lab is also acceptable.

For more information, contact the Fire Science Department:

Phone: 541-956-7500

Email: EmergencyServicesInfo@roguecc.edu

Web address: www.roguecc.edu/emergencyservices

TTY: Oregon Telecom Relay Service, 711

Phlebotomy

Career Pathway Certificate

About the Program

The phlebotomy program is a one-term program that prepares students to become certified phlebotomists. Phlebotomists use proper prioritization procedures and coordinate collection of all phlebotomy specimens with other lab personnel. They must consistently provide phlebotomy services appropriate to the age and condition of patients to minimize re-draws (i.e., proper amounts, correct samples) and must strictly adhere to patient identification protocols as specified by regulatory requirements. This includes demonstrating knowledge of all patient safety precautions such as isolations and safety devices. In this role, it is important to use independent judgment in following established venipuncture procedures along with the ability to inspire confidence in, and communicate effectively with, unit secretaries, therapists, medical staff and visitors. This means demonstrating composure and organizational skills in handling crisis situations and effectively handling multiple tasks simultaneously in times of heavy workload.

Successful completion of the program prepares students to sit for the National Healthcareer Association (NHA) phlebotomy certification exam (CPT.) Students do not automatically become certified through this program but may take the appropriate tests through NHA after completing the program. The curriculum was written using the standards and guidelines for the NHA phlebotomy certifications and can be reviewed at [National Healthcareer Association](#) website.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Phlebotomy Career Pathway Certificate are:

Conduct venipuncture and capillary puncture, select appropriate collection tubes, and follow proper procedures for labeling and transporting specimens.

Demonstrate industry standards of infection control and safety principles.

Explain legal and ethical standards for confidentiality and patient privacy.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Students attend core phlebotomy classes as part of a structured cohort. Students who plan on entering the Phlebotomy program should meet with their faculty advisor and financial aid advisor to develop a plan prior to taking program courses. Cohort students must meet certain minimum academic requirements.

Students will complete specific health and immunization requirements and a criminal background check prior to starting the program. Students will also complete a drug screen prior to placement into a practicum. This screening process has an associated fee. Contact the Allied Health Department for more information.

Students wishing to enter the program cohort must declare their interest by attending a mandatory virtual Allied Health Information Session and apply online through the Allied Health website.

Selection Process

Applications must be received by the application deadline. Applications received after the application deadline may be reviewed based on cohort capacity and at the discretion of the department.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the program coordinator's recommendation. In order to ensure coursework is current, program courses over seven years old must be reviewed and approved by the appropriate coordinator before being accepted toward core requirements. College Now credit earned in conjunction with local high schools will be accepted in accordance with the current agreement.

Completion Requirements

These requirements apply only to phlebotomy students admitted to the program during the current academic year. The program of study, graduation requirements, and courses are under constant review and are subject to revision. Students contemplating admission in a later year may have different requirements and must obtain the program map or catalog for that year. Students must complete all courses on this program map with a grade of "C-" or better to continue in and complete the program and receive their certificates. If certain required courses are graded only on a pass/no pass basis, a grade of "P" for these courses indicate a student earned the equivalent of a "C-" or better grade.

Required Core Courses

- AH 100 - Medical Terminology - Introduction **3 Credit(s)**
- AH 104 - Phlebotomy **3 Credit(s)**
- AH 111 - Healthcare Communication **1 Credit(s)**
- AH 123 - Healthcare Legal and Ethical Issues **2 Credit(s)**
- AH 170PH - Phlebotomy Practicum **2 Credit(s)**
- AH 202 - Healthcare Infection Control **1 Credit(s)**
- HE 261 - CPR - Basic Life Support Provider **1 Credit(s)** ¹

Total Program Credits: 12-13

Notes:

¹ See program advisor if you have American Heart Association (AHA) BLS Provider certification. AHA must remain current for the duration of the program.

For more information, contact the Allied Health Occupations office:

Phone: 541-956-7500

Email: AlliedHealthInfo@roquecc.edu

Web address: www.roquecc.edu/phlebotomy

TTY: Oregon Telecom Relay Service, 711

Advanced Emergency Care

Certificate of Completion

About the Program

The paramedic four-term certificate program offers career training for entry-level personnel who have already completed their EMT training and have an associate or higher-level degree.

Credit for Prior Learning

Students may be eligible to receive credit toward a certificate or degree based on demonstrated competency of the course learning outcomes from prior learning, training, or experiences. For more information, consult your advisor or a program representative.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Advanced Emergency Care Certificate of Completion are:

Perform a patient assessment and formulate and implement a Basic Life Support treatment plan for patients with a variety of medical and traumatic emergencies.

Demonstrate effective communication, cultural competency, and conflict management and intervention skills for people in crisis in simulated emergencies.

Implement self-care strategies and techniques to address the impact of stress and emotional trauma on emergency providers.

Demonstrate leadership, teamwork and decision making in the management, treatment, or transport of emergency patients.

Demonstrate workplace expectations regarding attendance, safety, conduct, and professionalism.

Entry Requirements

Students are required to have a valid Oregon EMT license and an associate's degree or higher from an accredited institution on file.

This program requires applying and satisfying specific course admission criteria before enrolling.

In addition, students must complete all screening requirements outlined in OAR 409-030-0190 and additional RCC requirements for clinical site requirements.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Emergency Services Department Chair's recommendation. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the Emergency Services Department chair before being accepted toward core requirements.

Graduation Requirements

Students completing all credits outlined in this program with a grade of "C" or better will earn a certificate in paramedic care.

Students are strongly encouraged to meet with an Emergency Services Department advisor before beginning any coursework.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101 ¹
- ES 105 - Introduction to Emergency Services **4 Credit(s)** Can be taken during program.
- EMS 270 - Paramedic Preparation **3 Credit(s)**
- ES 171 - Emergency Vehicle Operations **2 Credit(s)** Can be taken during program.
- ES 205 - Crisis Recognition and Care **3 Credit(s)**
- ES 268 - Emergency Service Rescue **3 Credit(s)** Can be taken during program.
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or MTH 102CT or higher-level math; speak to an Advisor, consider MTH105Z if transferring.
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 25-26

Total Program Credits: 45-48

Term 1

- EMS 271 - Paramedic Care and Practice I **9 Credit(s)**
- EMS 281 - Paramedic Clinical Practice I **3 Credit(s)**

Term Credits: 12

Term 2

- EMS 272 - Paramedic Care and Practice II **9 Credit(s)**
- EMS 282 - Paramedic Clinical Practice II **3 Credit(s)**

Term Credits: 12

Term 3

- EMS 273 - Paramedic Care and Practice III **9 Credit(s)**
- EMS 283 - Paramedic Clinical Practice III **3 Credit(s)**

Term Credits: 12

Term 4

- EMS 284 - Paramedic Clinical Capstone **9 Credit(s)**
- Any college-level (100-200 numbered) transferrable non-studio humanities, social science or science elective(s) **0-3 Credit(s)**

Term Credits: 12

Approved Program Electives

0-3 program elective credits allowed in program.

- Any college-level (100 or 200 numbered) transferrable non-studio humanities, social science, or science electives (variable credits) as needed to meet program minimum requirements
- Any EMS, ES, or FRP 100 or higher course (variable credits)

Notes:

¹ Required for graduation.

For more information, contact the Emergency Services Department:

Phone: 541-956-7500

Email: EmergencyServicesInfo@roquecc.edu

Web address: www.roquecc.edu/emergencyservices

TTY: Oregon Telecom Relay Service, 711

Basic Health Care

Certificate of Completion

About the Program

The Basic Health Care Certificate prepares students for work in entry-level positions in the health care industry. Students will gain knowledge and skills required to meet workforce requirements while fulfilling prerequisites to limited entry specialty programs within Allied Health which are in high demand in our region. This program is targeted for high school students and returning adult learners who are considering a career in health care to help guide interests and learn basic skills such as medical terminology and introduction to human body systems.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Basic Health Care Certificate of Completion are:

Describe medical terminology used in various health care environments.

Identify basic human body function.

Identify skills and training required for healthcare positions.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. It is important that students work closely with an advisor to select courses appropriate to their career goal(s). Students who are enrolled in the Basic Health Care certificate are not given advanced placement into special admission programs.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies and the program director's approval. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the program director before being accepted toward core requirements. Each College Now credit student must meet with the director to determine placement.

Graduation Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive their certificates. Certain prerequisite and required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or higher-level math or designated placement

Prerequisite Credits: 0-4

Required Courses

- AH 100 - Medical Terminology - Introduction **3 Credit(s)**
- BI 100SB - Biology of Human Body Systems **3 Credit(s)** ¹
- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101
- CG 155 - Exploring Careers in Health Care **3 Credit(s)**
- HE 252 - First Aid - CPR **3 Credit(s)** or HE 112 and HE 261
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or WR 117 or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Total Required Courses: 17-19

Electives (6-10 Credits Required)

Any combination of 6-10 credits from the courses listed below will meet program requirements. Additional coursework is required beyond Basic Health Care certificate courses to complete expanded certificate or degree programs.

- AH 22 - Healthcare Calculations **3 Credit(s)**
- AH 110 - Medical Terminology - Clinical **3 Credit(s)**
- AH 111 - Healthcare Communication **1 Credit(s)**
- AH 123 - Healthcare Legal and Ethical Issues **2 Credit(s)**
- AH 202 - Healthcare Infection Control **1 Credit(s)**
- EMS 160 - Electrocardiogram Interpretation **2 Credit(s)**
- HC 100 - Community Health Worker **6 Credit(s)**
- HE 250 - Personal Health **3 Credit(s)**
- SOC 230 - Aging and Society **4 Credit(s)**
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**

Total Program Credits: 23-29

Notes:

¹ Students who have completed either BI 121 and BI 122 or BI 231, BI 232 and BI 233 (the entire sequence of either series) with an equivalent "C-" or better grade do not need to take BI 100SB.

For more information, contact the Allied Health Occupations office:

Phone: 541-956-7500

Email: AlliedHealthInfo@roguecc.edu

Web address: www.roguecc.edu/alliedhealth

TTY: Oregon Telecom Relay Service, 711

Dental Assistant

Certificate of Completion

About the Program

This three-term certificate program prepares students to meet the requirements to become dental assistants with expanded functions (EFDA) through the Oregon Board of Dentistry (OBD) and a Certified Dental Assistant (CDA) through the Dental Assisting National Board (DANB). Successful completion of the program prepares the student for job entry with State and National certification in dental radiology, basic dental assisting and expanded function dental assisting. The curriculum is based in general dentistry. Students are trained in four-handed chair-side assisting techniques and specialty practices.

Program students attend classes as part of a structured cohort that begins each year in fall term. Students should apply early as the required mandatory information session is scheduled several months prior to the program start. Note: Students may still be working on prerequisites to cohort acceptance classes when applying.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Dental Assistant Certificate of Completion are:

Demonstrate patient education.

Demonstrate occupational safety skills.

Demonstrate general chair-side and laboratory sciences skills.

Develop competency dealing with legal and ethical issues.

Evaluate radiographic proficiencies.

Apply communication principles and skills.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Students attend classes as part of a structured cohort that begins each fall term. The program is designed to be three full-time terms. Students who plan on entering the Dental Assistant program should meet with their faculty advisor to develop an academic plan.

Cohort students must meet certain minimum academic requirements before the program application due date. Students can apply for program entry prior to prerequisite completion; however, all listed program prerequisites must be complete with a "C-" or better prior to program start. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Cohort students must meet certain minimum academic requirements (MTH 60 or MTH 102CT, and PSY 101, and WR 115) before the application due date. All listed program prerequisites must be satisfactorily completed before beginning the cohort.

Students wishing to enter the program cohort must declare their interest by attending a mandatory Dental Program Information Session and apply online through RCC's Dental Programs page.

Selection Process

After application submission, students will complete specific health and immunization requirements, and a criminal background check prior to starting the program, in addition to drug testing within the program. This screening process has an associated fee. Applications received after the application deadline may be reviewed based on cohort capacity and at the discretion of the department. The Dental Programs department strives to accept all students into programs if academic and screening requirements are met, however in the event that cohort capacity is exceeded students may be asked to participate in an interview process. Students entering a cohort are required to attend a mandatory program orientation.

Advanced Standing

Coursework from programs accredited by the Commission on Dental Accreditation will be accepted in accordance with college policies and the Program Director's recommendation. In order to ensure coursework is current, program courses over five years old must be reviewed and approved by the Program Director before being accepted toward core requirements. College Now credit will be accepted in accordance with the current agreement.

Graduation Requirements

Students completing all courses in this program with a grade of "C" or better will receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade. Credits earned in this program can be applied to the Associate of General Studies degree.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 45-50

Program email address: DentalInfo@roquecc.edu

Program Prerequisites to Cohort Start:

Prerequisites to Application

- AH 100 - Medical Terminology - Introduction **3 Credit(s)**
- BA 120 - Human Relations in Organizations **3 Credit(s)** ¹ or PSY 101; required for graduation

- HE 252 - First Aid - CPR **3 Credit(s)** or HE 112 and HE 261 (can be taken outside of cohort; cannot be fulfilled by taking a course outside of RCC)
- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or higher-level math; required for graduation
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or WR 117, or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 13-16

Apply to the Dental Assistant Program

Apply to the program between January 1 and March 31 for Fall entry.

Fall Term

Check in with Advisor

- DA 101 - Dental Assisting I **4 Credit(s)**
- DA 101L - Dental Assisting I Lab **1 Credit(s)**
- DA 103 - Dental Materials **1 Credit(s)**
- DA 103L - Dental Materials Lab **1 Credit(s)**
- DA 104 - Dental Administration **2 Credit(s)**
- DA 106 - Dental Emergency Management **1 Credit(s)**
- DA 106L - Dental Emergency Management Lab **1 Credit(s)**
- DA 123 - Legal - Ethical Issues in Dentistry **2 Credit(s)**
- DA 202 - Dental Infection Control **1 Credit(s)**
- DA 202L - Dental Infection Control Lab **1 Credit(s)**

Term Credits: 15

Winter Term

- DA 107 - Comm and Professional Behavior - DA **3 Credit(s)**
- DA 150 - Intro to Practicum and Seminar **2 Credit(s)**
- DA 201 - Dental Radiology **4 Credit(s)**
- DA 201L - Radiology Lab **2 Credit(s)**
- DA 205 - Adv Assisting - Expanded Functions **4 Credit(s)**
- DA 205L - Advanced Chairside Assisting **1 Credit(s)**

Term Credits: 16

Spring Term

- DA 152 - Practicum for the DA I **6 Credit(s)**
- DA 153 - Practicum and Seminar for the DA II **5 Credit(s)**
- DA 204L - Expanded Functions for the DA Lab **1 Credit(s)**
- DA 206 - Dental Specialties **1 Credit(s)**
- DA 206L - Dental Specialties Lab **1 Credit(s)**

Term Credits: 14

Approved Program Electives (0-5 Credits Allowed)

See footnote 2

- AH 110 - Medical Terminology - Clinical **3 Credit(s)**
- BA 101Z - Introduction to Business **4 Credit(s)**
- BT 123 - Introduction to Supervision **3 Credit(s)**
- CG 100 - College Success and Survival **2 Credit(s)**
- CG 105 - Scholarship Essay Writing **1 Credit(s)**
- COMM 100Z - Introduction to Communication **4 Credit(s)**
- COMM 111Z - Public Speaking **4 Credit(s)**
- COMM 115 - Intercultural Communication **4 Credit(s)**
- COMM 218Z - Interpersonal Communication **4 Credit(s)**
- DH 100 - Pre-Dental Hygiene **2 Credit(s)**
- HS 152 - Stress Management **1 Credit(s)**
- MTH - Any math course numbered MTH 60 or above (if not taken to fulfill math requirement)
- SPAN 101 - First Year Spanish I **4 Credit(s)**
- SPAN 102 - First Year Spanish II **4 Credit(s)**
- SPAN 103 - First Year Spanish III **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**

- SRV 101 - Service Learning **Var. (1-6) Credit(s)**
- WR 121Z - Composition I **4 Credit(s)** (if not taken to fulfill writing requirement)
- WR 122Z - Composition II **4 Credit(s)**
- WR 227Z - Technical Writing **4 Credit(s)**
- Any science course numbered 100 and above **3-4 Credit(s)**
- Any health or physical education course **variable Credit(s)**

Notes:

For more information on how to get started, sign up to attend an Information Session.

¹ Required for graduation.

² Approved program electives are optional.

For more information, contact the Director, Dental Programs

Phone: 541-956-7500

Email: DentalInfo@roquecc.edu

Web address: www.roquecc.edu/dental

TTY: Oregon Telecom Relay Service, 711

Emergency Medical Services

Certificate of Completion

About the Program

The Emergency Medical Services (EMS) three-term certificate program offers career training for entry-level personnel in EMT. Successful completion of the EMT course leads to eligibility to sit for the state and National Registry EMT exams. This program is ideal for students who plan to go on to the Associate of Applied Science degree in Paramedicine. Students not interested in the paramedic level may wish to consider the EMT Career Pathway certificate.

Successful completion of the curriculum leads to a one-year RCC certificate and eligibility to apply for the Paramedicine courses at RCC, at any other Oregon community college offering the associate degree, or at the Oregon Health and Science University.

Credit for Prior Learning

Students may be eligible to receive credit toward a certificate or degree based on demonstrated competency of the course learning outcomes from prior learning, training, or experiences. For more information, consult your advisor or a program representative.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Emergency Medical Service Certificate of Completion are:

Perform a patient assessment and formulate and implement a Basic Life Support treatment plan for patients with a variety of medical and traumatic emergencies.

Demonstrate effective communication, cultural competency, and conflict management and intervention skills for people in crisis in simulated emergencies.

Implement self-care strategies and techniques to address the impact of stress and emotional trauma on emergency providers.

Demonstrate leadership, teamwork and decision making in the management, treatment, or transport of emergency patients.

Demonstrate workplace expectations regarding attendance, safety, conduct, and professionalism.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

This program requires an application and satisfaction of certain course admission criteria prior to enrolling in the EMT courses (ES 131, ES 132). Information is available on the Emergency Medical Services (EMS) Department website or at the Emergency Services Department office.

located at the RCC Table Rock Campus. Students are strongly encouraged to meet with an Emergency Services Department advisor prior to beginning any coursework.

Students must be at least 17 years old to apply to the EMT course. Students must be a high school graduate or have a GED or equivalent for certification. In addition, students must complete all screening requirements outlined in OAR 409-030-0190 and additional RCC requirements or clinical site requirements.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Emergency Services Department Chair's recommendation. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the Emergency Services Department chair before being accepted toward core requirements.

Graduation Requirements

Students completing all credits outlined in this program with a grade of "C-" or better will earn a certificate in Emergency Medical Services. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Students are strongly encouraged to meet with an Emergency Services Department advisor prior to beginning any coursework.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 45-49

Program Email Address: EmergencyServicesInfo@roquecc.edu

Program Prerequisites:

SOME COURSES MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- BI 112 - Biology for Health Professions **3 Credit(s)**¹ and BI 112L, or BI 221Z (required program prerequisite)
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or MTH 102CT or higher-level math; required for graduation. Consider MTH 105Z if you plan to transfer.
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115, or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisites Credits: 11-13

Term 1

Check in with Advisor

- BI 231 - Anatomy and Physiology I **3 Credit(s)**
- BI 231L - Anatomy and Physiology I Lab **1 Credit(s)**
- ES 105 - Introduction to Emergency Services **4 Credit(s)**
- ES 106 - Communications - Emergency Services **3 Credit(s)**
- ES 131 - Emergency Medical Technician I **6 Credit(s)**

Term Credits: 17

Term 2

- BI 232 - Anatomy and Physiology II **3 Credit(s)**
- BI 232L - Anatomy and Physiology II Lab **1 Credit(s)**
- ES 132 - Emergency Medical Technician II **6 Credit(s)**
- ES 295 - Emergency Services Wellness **3 Credit(s)** or HPE 295

Term Credits: 13

Term 3

- AH 100 - Medical Terminology - Introduction **3 Credit(s)**
- BI 233 - Anatomy and Physiology III **3 Credit(s)**
- BI 233L - Anatomy and Physiology III Lab **1 Credit(s)**
- ES 171 - Emergency Vehicle Operations **2 Credit(s)**
- ES 205 - Crisis Recognition and Care **3 Credit(s)**
- ES 268 - Emergency Service Rescue **3 Credit(s)**

Term Credits: 15

Approved Program Electives

0-4 program elective credits allowed in program.

- Any college-level (100 or 200 numbered) transferrable non-studio humanities, social science, or science electives (variable credits)
- Any FRP or EMS, or ES 100 or higher course (variable credits)

Notes:

¹ BI 112 / BI 112L or BI 221Z is a prerequisite to BI 231 / BI 231L

CHEM 104 / CHEM 104L is also highly recommended.

For more information, contact the Emergency Services Department:

Phone: 541-956-7500

Email: EmergencyServicesInfo@roguecc.edu

Web address: www.roguecc.edu/emergencyservices

TTY: Oregon Telecom Relay Service, 711

Massage Therapy

Certificate of Completion

About the Program

The Massage Therapy four-term certificate program provides a comprehensive combination of classroom and hands-on experience in massage therapy. The courses and total hours meet the requirements for licensure application to the Oregon Board of Massage Therapists (OBMT), the Federation of State Massage Therapy Board's Licensing Examination (MBLEx) and National Certification Board for Therapeutic Massage and Bodywork (NCBTMB) certification. Oregon law, however, sets the qualifications for certification of applicants. Grounds for denial of state licensure include physical or mental conditions that would make an applicant unable to safely conduct a massage, or conviction of a crime that bears a demonstrable relationship to the practice of massage. See Oregon Law 687.081.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Massage Therapy Certificate of Completion are:

Demonstrate professional communications, human relations, regulations, laws and ethics.

Classify, describe and apply multiple modality treatments.

Locate, identify and describe the function of the body systems.

Recognize pathologic conditions and determine appropriate treatment.

Assess, create, implement and document individualized treatment plans.

Develop and implement a personalized career plan.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Massage Therapy is a special admission program. Interested applicants must view the [Massage Therapy information video](#) and complete the quiz. The timeline for submitting program application runs annually from March 1 through September 1. Applicants will be accepted on a first-come, first-served basis once prerequisites are completed. It is recommended that students receive influenza, varicella-zoster, rubella, Hepatitis A, and Hepatitis B series immunizations prior to entering the program. A tuberculin test, drug test, a criminal background check and COVID vaccination may be required for some Cooperative Work Experience activities. Students must attend a mandatory orientation prior to the beginning of fall term.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Massage Therapy Department Chair's approval. Sealed official transcripts and a transfer credit evaluation request must be submitted to RCC's Enrollment Services Office by May 1 to be considered in the application process. The transfer credit evaluation request may only be submitted online.

Graduation Requirements

Students completing all credits in this program with a grade of "C-" or better will receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade. Credits earned in this program can be applied to the Associate of General Studies degree.

Students must complete all Massage Therapy courses on this program map with a grade of "C" or better to complete the program, receive their Certificate, and to meet the educational requirements of Oregon Board of Massage Therapists (OBMT) and to apply to take the Federation of State Massage Therapy Board's Licensing Examination (MBLEx).

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 49-53

Program email address: MassageTherapyInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

View Massage Therapy information video and complete the quiz.

- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or MTH 102CT or higher-level math; required for graduation
- PSY 101 - Psychology of Human Relations **3 Credit(s)** or BA 120; required for graduation
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or WR 117 or higher-level writing course; required for graduation
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 10-11

****Apply to the Massage Program between April 1 and June 24 for fall entry.**

Recommended Preparatory Courses:

- AH 100 - Medical Terminology - Introduction **3 Credit(s)**

- BI 112 - Biology for Health Professions **3 Credit(s)** or BI 221Z ¹ Recommended Preparatory Course
- BI 112L - Biology for Health Professions Lab **1 Credit(s)**

Fall

Check in with Advisor

- BI 121 - Elem Anatomy - Physiology I **3 Credit(s)** or BI 231; summer/fall term only
- BI 121L - Elem Anatomy - Physiology I Lab **1 Credit(s)** or BI 231L; summer/fall term only
- MT 100 - Massage I **2 Credit(s)** fall term only
- MT 100L - Massage I Lab **1 Credit(s)** fall term only
- MT 101 - Eastern Bodywork Theory I **1 Credit(s)** fall term only
- MT 101L - Eastern Bodywork I Lab **1 Credit(s)** fall term only
- MT 104 - Kinesiology I - Upper Body **2 Credit(s)** fall term only
- MT 104L - Kinesiology I - Upper Body Lab **1 Credit(s)** fall term only
- MT 113 - Myofascial Release **1 Credit(s)** fall term only; only 6 program electives allowed
- MT 113L - Myofascial Release Lab **1 Credit(s)** fall term only; only 6 program electives allowed
- MT 115 - Trigger Point Therapy **1 Credit(s)** or MT 114; only 6 program electives allowed; options for fall - MT 115 / MT 115L and MT 114
- MT 115L - Trigger Point Therapy Lab **1 Credit(s)** or MT 114; only 6 program electives allowed; options for fall - MT 115 / MT 115L and MT 114

Term Credits: 16

Winter

- BI 122 - Intro Anatomy - Physiology II **3 Credit(s)** ¹ fall/winter term only or BI 232 and BI 233
- BI 122L - Intro Anatomy - Physiology II Lab **1 Credit(s)** ¹ fall/winter term only or BI 232L and BI 233L
- MT 102 - Massage II **2 Credit(s)** winter term only
- MT 102L - Massage II Lab **1 Credit(s)** winter term only
- MT 106 - Upper Body Massage Treatments **1 Credit(s)** winter term only
- MT 106L - Upper Body Massage Treatments Lab **1 Credit(s)** winter term only
- MT 108 - Kinesiology II Lower Body **2 Credit(s)** winter term only
- MT 108L - Kinesiology II Lower Body Lab **1 Credit(s)** winter term only

- MT 109 - Pathology for Massage Therapists **4 Credit(s)** winter term only
- MT 121 - Eastern Bodywork Theory II **1 Credit(s)** winter/spring term only
- MT 121L - Eastern Bodywork II Lab **1 Credit(s)** winter/spring term only

Term Credits: 18

Spring

- MT 103 - Massage III **1 Credit(s)** spring term only
- MT 103L - Massage III Lab **1 Credit(s)** spring term only
- MT 105 - Hydrotherapy and Tools **1 Credit(s)** spring term only
- MT 105L - Hydrotherapy and Tools Lab **1 Credit(s)** spring term only
- MT 107 - Lower Body Massage Treatments **1 Credit(s)** spring term only
- MT 107L - Lower Body Massage Treatments Lab **1 Credit(s)** spring term only
- MT 116 - Massage Exam Review **2 Credit(s)** spring term only
- MT 120A - Ethics - Law for Massage Therapists **1 Credit(s)** spring term only
- MT 120B - Business for Massage Therapists **2 Credit(s)** spring term only
- MT 180 - CWE - Massage Therapy **Var. (1-4) Credit(s)** 1 credit required this term and any additional credits are program elective.
- MT 180S - Massage Therapy CWE Seminar **1 Credit(s)** must be taken with MT 180
- MT 112 - Pregnancy - Child Massage **1 Credit(s)** Only 6 program electives allowed.
Options for spring - MT 112/MT 112L, MT 113/MT 113L, MT 118/MT 118L
- MT 112L - Pregnancy-Child Massage Lab **1 Credit(s)** Only 6 program electives allowed.
Options for spring - MT 112/MT 112L, MT 113/MT 113L, MT 118/MT 118L

Term Credits: 15

Summer (Optional)

Check in with Advisor

- Only 6 program electives allowed. **Elective options for summer** - MT 117 and MT 117L, MT 119 and MT 119L (2 credit courses)

Approved Program Electives (6 Credits Required)

- BA 209 - Professional Workforce Preparation **2 Credit(s)**
- BT 250 - Entrepreneurship **3 Credit(s)**
- HE 252 - First Aid - CPR **3 Credit(s)**

- HE 261 - CPR - Basic Life Support Provider **1 Credit(s)**
- MT 111 - Sports Massage **1 Credit(s)**
- MT 111L - Sport Massage Lab **1 Credit(s)**
- MT 112 - Pregnancy - Child Massage **1 Credit(s)**
- MT 112L - Pregnancy-Child Massage Lab **1 Credit(s)**
- MT 113 - Myofascial Release **1 Credit(s)**
- MT 113L - Myofascial Release Lab **1 Credit(s)**
- MT 114 - Massage Therapy Study Skills Lab **1 Credit(s)**
- MT 115 - Trigger Point Therapy **1 Credit(s)**
- MT 115L - Trigger Point Therapy Lab **1 Credit(s)**
- MT 117 - Body Maintenance for Massage **1 Credit(s)**
- MT 117L - Body Maintenance for Massage Lab **1 Credit(s)**
- MT 118 - Deep Tissue Massage **1 Credit(s)**
- MT 118L - Deep Tissue Massage Lab **1 Credit(s)**
- MT 119 - Craniosacral Therapy I **1 Credit(s)**
- MT 119L - Craniosacral Therapy I Lab **1 Credit(s)**
- MT 122 - Special Populations **1 Credit(s)**
- MT 122L - Special Populations Lab **1 Credit(s)**
- MT 180 - CWE - Massage Therapy **Var. (1-4) Credit(s)**
- MT 199 - Special Studies - Massage Therapy **Var. (1-3) Credit(s)**

Notes:

¹ Students who have successfully completed the 3-credit version of BT113 will have met the writing requirement.

² BI 221Z (formerly offered as BI112 / BI112L) is a prerequisite for BI 231. If BI 231 is taken, students must also complete BI 232 and BI 233.

For more information, contact the Massage Therapy Department:

Phone: 541-956-7500

Email: MassageTherapyInfo@roquecc.edu

Website: www.roquecc.edu/massage

TTY: Oregon Telecom Relay Service, 711

Medical Assistant

Certificate of Completion

About the Program

The Medical Assistant three-term certificate program provides a comprehensive combination of online, classroom and hands-on experience in Medical Assisting. Medical Assistants are health care practitioners qualified by education, experience, and examination to assist doctors in the performance of patient care, examination, and documentation. These multi-skilled practitioners perform a variety of clinical and administrative tasks and are critical members of the health care team. Successful completion of this three-term program prepares students to be eligible for the Certified Medical Assistant (CCMA) exam through the National Healthcareer Association (NHA), or other national medical assisting accrediting agencies. In addition, students may also sit for the Certified Phlebotomy Technician (CPT) exam through the National Healthcareer Association. The curriculum for the program is based on the standards and guidelines for the CCMA which can be reviewed on the National Healthcareer Association website.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Medical Assistant Certificate of Completion are:

Conduct venipuncture and capillary puncture, select appropriate collection tubes, and follow proper procedures for labeling and transporting specimens.

Perform and document routine clinical procedures according to current office protocol.

Perform and document routine administrative procedures according to current office protocols.

Recognize and describe current legal and ethical standards for confidentiality of patient privacy.

Demonstrate industry standards of infection control and safety principles.

Explain legal and ethical standards for confidentiality and patient privacy.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. Students wishing to enter the program cohort must declare their interest by attending a mandatory virtual Allied Health Information Session and apply online through the Allied Health website. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Prior to placement in a practicum, student must complete:

- specific health and immunization requirements, as required by the practicum facility;
- a criminal background check; and
- a drug screening (including an associated fee)

For more information:

- contact the Allied Health Occupations Department; or
- watch the Medical Assistant Observational Video

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the program coordinator's recommendation. In order to ensure coursework is current, program courses over seven years old must be reviewed and approved by the appropriate department coordinator before being accepted toward core requirements. College Now credit earned in conjunction with local high schools will be accepted in accordance with the current agreement.

Graduation Requirements

These requirements apply only to Medical Assistant students admitted to the program during the current academic year. The program of study, graduation requirements, and courses are under constant review and are subject to revision. Students contemplating admission in a later year may have different requirements and must obtain the program map or catalog for that year. Students must complete all courses on this program map with a grade of "C-" or better to continue in and complete the program and receive their certificates. If certain required courses are graded only on a pass/no pass basis, a grade of "P" for these courses indicate a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 38-43

Program Email AlliedHealthInfo@roguecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement
- Placement into WR 115 - Introduction to Expository Writing **3 Credit(s)** or WR 117, or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Term 1

Check in with Advisor

- AH 100 - Medical Terminology - Introduction **3 Credit(s)**

- AH 101 - Medical Assistant I Administrative **3 Credit(s)**
- AH 102 - Medical Assistant II Clinical **4 Credit(s)**
- AH 111 - Healthcare Communication **1 Credit(s)**
- AH 202 - Healthcare Infection Control **1 Credit(s)**
- BI 100SB - Biology of Human Body Systems **3 Credit(s)** ¹ Can be taken outside of cohort.
- CIS 120 - Concepts in Computing I **2 Credit(s)** ² For students pursuing the AAS, take BA 131

Term Credits: 15-19

Term 2

- AH 22 - Healthcare Calculations **3 Credit(s)**
- AH 103 - Medical Assistant III Specialty **5 Credit(s)**
- AH 104 - Phlebotomy **3 Credit(s)**
- AH 108 - Intro to Pharmacology **3 Credit(s)**
- AH 123 - Healthcare Legal and Ethical Issues **2 Credit(s)**
- HE 261 - CPR - Basic Life Support Provider **1 Credit(s)** ³

Term Credits: 17

Term 3

- AH 170MA - MA Practicum and Seminar **7 Credit(s)**

Term Credits: 7

Notes:

¹ Students who have completed either BI 121 and BI 122 or BI 231, BI 232, and BI 233 (the entire sequence of either series) with an equivalent "C-" or better grade do not need to take BI 100SB.

² Approved Computer Information Science or Computer Science class, CIS 120 / CS120 or above, or documented computer proficiency within the past ten years.

³ See program advisor if you have American Heart Association (AHA) BLS Provider certification. AHA must remain current for the duration of the program.

For more information, contact the Allied Health Occupations office:

Phone: 541-956-7500

Email: AlliedHealthInfo@roquecc.edu

Web address: www.roquecc.edu/alliedhealth

TTY: Oregon Telecom Relay Service, 711

Medical Assistant Bridge

Certificate of Completion

About the Program

The three-term Medical Assistant Bridge program is designed for currently employed Medical Administrative Assistants (also called: Patient Service Specialists, Medical Office Assistants, Front desk receptionists, and others) with at least 500 hours of experience in their role and support from their employer, to take an abbreviated Medical Assistant Program in order to achieve certification and a role as a Medical Assistant in their current organization.

Students completing this program will be prepared to take the national Certified Clinical Medical Assistant (CCMA) and Certified Phlebotomy Technician (CPT) Examinations through the National Healthcareer Association (NHA).

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Medical Assistant Bridge Certificate of Completion are:

Conduct venipuncture and capillary puncture, select appropriate collection tubes, and follow proper procedures for labeling and transporting specimens.

Perform and document routine clinical procedures according to current office protocol.

Perform and document specialty procedures according to current office protocol.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. Students wishing to enter the program cohort must declare their interest by attending a mandatory virtual Allied Health Information Session and apply online through the Allied Health website. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Before beginning the program, students should complete the following:

Review the Medical Assistant Bridge Program Guide.

Complete the Rogue Community College Clinical Training Agreement for the Medical Assistant Bridge Program.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the program coordinator's recommendation. In order to ensure coursework is current, program courses over seven years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. College Now credit earned in conjunction with local high schools will be accepted in accordance with the current agreement.

Graduation Requirements

These requirements apply only to students admitted to the program during the current academic year. Students contemplating admission in a later year may have different requirements and must obtain the program map or catalog for that year. Students must complete all courses on this program map with a grade of "C-" or better to continue in and complete the program and receive their certificates. If certain required courses are graded only on a pass/no pass basis, a grade of "P" for these courses indicate a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Please consult an advisor with any program completion questions.

Total Program Credits: 22-30

Program Email AlliedHealthInfo@roguecc.edu

Prerequisites

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or higher-level math or designated placement

Total Prerequisite Credits: 0-4

Required Core Courses

Term 1

- AH 102 - Medical Assistant II Clinical **4 Credit(s)**
- AH 108 - Intro to Pharmacology **3 Credit(s)**
- Approved program elective(s) **0-3 Credit(s)**

Term Credits: 7-10

Term 2

- AH 103 - Medical Assistant III Specialty **5 Credit(s)**
- AH 104 - Phlebotomy **3 Credit(s)**
- Approved program elective(s) **0-3 Credit(s)**

Term Credits: 8-11

Term 3

- AH 170MB - Medical Assistant Bridge Practicum **3 Credit(s)**
- AH 22 - Healthcare Calculations **3 Credit(s)** ¹

- HE 261 - CPR - Basic Life Support Provider **1 Credit(s)** ²
Approved program elective(s) **0-2 Credit(s)**

Term Credits: 7-9

Approved Program Electives

(0-8 credits allowed)

- AH 100 - Medical Terminology - Introduction **3 Credit(s)**
- AH 110 - Medical Terminology - Clinical **3 Credit(s)**
- AH 111 - Healthcare Communication **1 Credit(s)**
- AH 123 - Healthcare Legal and Ethical Issues **2 Credit(s)**
- AH 202 - Healthcare Infection Control **1 Credit(s)**
- BI 100SB - Biology of Human Body Systems **3 Credit(s)**

Notes:

¹ Some courses listed may require additional prerequisites.

² Course can be taken within program. See program advisor if you have American Heart Association (AHA) BLS Provider certification. AHA must remain current for the duration of the program.

For more information, contact the Allied Health Occupations office:

Phone: 541-956-7500

Email: AlliedHealthInfo@roquecc.edu

Web address: www.roquecc.edu/alliedhealth

TTY: Oregon Telecom Relay Service, 711

Pharmacy Technician

Certificate of Completion

About the Program

The Pharmacy Technician two-term certificate program prepares students for work in entry-level positions in hospitals and retail pharmacy settings. Students will learn to prepare prescription orders under the supervision of a licensed pharmacist, perform applicable pharmacy calculations, and comply with federal and state regulatory agency laws and regulations. Upon completion of this program students will be able to perform all the duties required in any pharmacy practice setting. Students completing this program will be prepared to take the national Certified Pharmacy Technician (CPhT) exam.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Pharmacy Technician Certificate of Completion program are:

Calculate pharmacy dosages and measurements accurately.

Apply computer skills, record keeping, and billing in compliance with industry regulation.

Demonstrate standard pharmacy procedures for filling prescriptions, including label verification and quality control checks.

Explain legal and ethical standards for confidentiality and patient privacy.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Prior to placement in a practicum, student must complete:

- specific health and immunization requirements, as required by the practicum facility;
- a criminal background check; and
- a drug screening (including an associated fee)

For more information:

- contact the Allied Health Occupations Department; or
- watch the video: Pharmacy Technician (Pharmacy Technician Observational Video)

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the program coordinator's recommendation. In order to ensure coursework is current, program courses over seven years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. College Now credit earned in conjunction with local high schools will be accepted in accordance with the current agreement.

Graduation Requirements

These requirements apply only to students admitted to the program during the current academic year. Students contemplating admission in a later year may have different requirements and must obtain the program map or catalog for that year. Students must complete all courses on this program map with a grade of "C-" or better to continue in and complete the program and receive their certificates. If certain required courses are graded only on a pass/no pass basis, a grade of "P" for these courses indicate a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 27

Program Email AlliedHealthInfo@roguecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- CIS 120 - Concepts in Computing I **2 Credit(s)** ¹ required for graduation
- HE 252 - First Aid - CPR **3 Credit(s)** ² or HE 112 and HE 261 or Instructor approval
- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement or higher-level math

Prerequisite Credits: 2-9

For more information:

Go to www.roguecc.edu/AlliedHealth

Term 1

Check in with Advisor

- AH 22 - Healthcare Calculations **3 Credit(s)**
- AH 100 - Medical Terminology - Introduction **3 Credit(s)**
- BI 100SB - Biology of Human Body Systems **3 Credit(s)** ³
- PRX 101 - Pharmacy Technician I **4 Credit(s)**

Term Credits: 13

Term 2

(see footnote 4)

- AH 108 - Intro to Pharmacology **3 Credit(s)**
- AH 111 - Healthcare Communication **1 Credit(s)**
- AH 123 - Healthcare Legal and Ethical Issues **2 Credit(s)**
- AH 170PT - Pharmacy Technician Practicum **3 Credit(s)**
- AH 202 - Healthcare Infection Control **1 Credit(s)**
- PRX 102 - Pharmacy Technician II **4 Credit(s)**

Term Credits: 14

Notes:

¹ Approved Computer Information Science or Computer Science class, CIS 120 / CS120 or above, or documented computer proficiency within the past ten years.

² See program advisor if you have American Heart Association (AHA) BLS Provider certification. AHA must remain current for the duration of the program.

³ Students who have completed either BI 121 and BI 122 or BI 231, BI 232, and BI 233 (the entire sequence of either series) with an equivalent "C-" or better grade do not need to take BI 100SB.

⁴ Successful completion of all prior program courses is required before advancement.

For more information, contact the Allied Health Occupations office:

Phone: 541-956-7500

Email: AlliedHealthInfo@roguecc.edu

Web address: www.roguecc.edu/alliedhealth

TTY: Oregon Telecom Relay Service, 711

Practical Nursing

Certificate of Completion

About the Program

RCC is a member of the Oregon Consortium for Nursing Education (OCNE) and offers a competency-based curriculum jointly developed by nursing faculties from the nine community colleges and Oregon Health and Science University (OHSU) consortium partners. The core competencies address the need for nurses to be skilled in clinical judgment and critical thinking; evidence-based practice; relationship centered care; interdisciplinary collaboration; assisting individuals and families in self-care practices for the promotion of health and management of chronic and acute illness; end-of-life care; and teaching, delegation, leadership and supervision of caregivers.

Rogue Community College offers a special admission, three-term (33 week) program leading to a certificate in Practical Nursing (PN), which meets the educational requirements for the national exam for PN licensure (NCLEX-PN). The program is located at the Table Rock Campus (TRC). The Practical Nursing program is approved by the Oregon State Board of Nursing (OSBN), 17938 SW Upper Boones Ferry Rd., Portland, OR, 971-673-0685, www.oregon.gov/OSBN.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Practical Nursing Certificate of Completion are:

Base personal and professional actions on a set of shared core nursing values, including social justice, caring, advocacy, protection of patient autonomy, prevention of harm, respect for self and others, collegiality, authority, accountability, responsibility for nursing practice and ethical behavior.

Use reflection, self-analysis, and self-care to develop insight.

Engage in intentional learning, developing self-awareness of the goals, processes, and potential actions of this learning and its effects on patient/client care.

Demonstrate leadership in nursing and health care to meet patient/client needs, improve the health care system, and facilitate community problem-solving.

Collaborate as part of a healthcare team, providing, receiving, and using feedback in a constructive manner.

Practice within, utilize, and contribute to all health care systems.

Practice a relationship-centered approach, based on developing mutual trust and respect for the autonomy of the patient/client.

Communicate effectively, accurately and therapeutically, with attention to social and cultural influences, and use appropriate communication modalities and technologies to ensure patient safety and provide for comprehensive continuity of care.

Make sound clinical judgments through an iterative process of noticing, interpreting, responding, and reflecting, using the best available evidence, frameworks and systems to organize data and

knowledge; accurately perform cognitive, affective and psychomotor skills in the delivery of care while maintaining safety of the patient/client, family, community, environment, and self.

Locate, evaluate, and use the best available evidence.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training, students must begin with the courses within their skill level as determined through the Placement Process. Students who have failed any two nursing courses (RN level, any program) are disqualified from applying for entry or re-entry to the RCC Practical Nursing Program.

Program admission occurs once a year. **Deadline for submitting program application material is February 15 for fall term admission** (see program website and/or application packet for more information). Transcripts showing satisfactory completion of MTH95 and Anatomy and Physiology I prerequisites and at least 20 other credits of the prerequisite courses (minimum of 28 credits) must be in the Enrollment Services office by the application deadline to be considered eligible.

All prerequisite courses must have been taken with a letter grade and completed with a "C-" or better. Consortium partner schools will use shared standards in a point system and a set of core criteria for the evaluation and selection of candidates to the consortium curriculum, but selection processes, acceptance decisions, and admissions will occur at individual schools. Application to the Practical Nursing program requires a minimum GPA of 2.5 for all completed prerequisite courses. See the Nursing website for information regarding the application and selection process.

If an applicant has taken an equivalent course elsewhere that has a course number, title, or credit hour different from the RCC course, the applicant must contact RCC's Enrollment Services office for a transfer credit evaluation as far in advance of the application deadline as possible. To be admitted into nursing courses students must complete all required prerequisite courses (minimum 45 credits) and be accepted into the Practical Nursing program.

Accepted students must pass a criminal history background check and urine drug screen before nursing clinical experiences or their acceptance will be rescinded. Information regarding the background check and drug screen requirements can be found on the program's website with additional information and deadlines provided to students following acceptance and before fall nursing classes begin. Accepted students will also be required to complete, by a specified deadline, an American Heart Association CPR Health Care Provider course (adult/child/infant, one- and two-person), with AED. Course must have been successfully completed within two years before admission to nursing courses. CPR cards must be kept current throughout the program. Information regarding required immunizations will be provided in the acceptance letter.

Internet and email access are an integral part of all nursing courses and access to a computer and printer (at home and at the college) will be required daily. Nursing students attend classes at the Table Rock Campus in White City. For the clinical practicum in both Josephine and Jackson Counties, the student will need reliable transportation. See the program website and/or program information for progression policies.

Graduation Requirements

These requirements apply only to nursing students admitted to the program during the 2026-27 academic year. The program of study, graduation requirements, and courses are under constant review and are subject to revision. Students contemplating admission in a later year may have different requirements and must obtain the program map or catalog for that year. If required courses (i.e., clinicals) are graded only on a pass/no pass basis, a grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade.

Students must complete all Nursing courses on this program map with a grade of "C" or better to continue in and complete the program, receive their degrees, and meet the educational requirements to apply to take the national licensure exam (NCLEX-PN). Admission and completion of the PN Certificate Program at RCC does not guarantee an OSBN licensure. The OSBN screens all applicants for licensure and may deny licensure applicants with a criminal offense or with a major physical or mental condition that could affect their ability to practice nursing safely. Contact the OSBN with any questions.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 33

Fall Prerequisites

- BI 112 - Biology for Health Professions **3 Credit(s)** or BI 221Z ¹
- BI 112L - Biology for Health Professions Lab **1 Credit(s)** or BI 221Z ¹
- MTH 95 - Intermediate Algebra **4 Credit(s)** or higher-level math course ²

Total Credits: 8-9

Winter Prerequisites

- BI 231 - Anatomy and Physiology I **3 Credit(s)** ^{2,3}
- BI 231L - Anatomy and Physiology I Lab **1 Credit(s)** ^{2,3}
- WR 121Z - Composition I **4 Credit(s)**

Total Credits: 8

Spring Prerequisites

- BI 232 - Anatomy and Physiology II **3 Credit(s)** ³
- BI 232L - Anatomy and Physiology II Lab **1 Credit(s)** ³
- NFM 225 - Nutrition **4 Credit(s)**
- PSY 201Z - Introduction to Psychology I **4 Credit(s)** ⁴

Total Credits: 12

Fall Prerequisites

- BI 233 - Anatomy and Physiology III **3 Credit(s)** ³
- BI 233L - Anatomy and Physiology III Lab **1 Credit(s)** ³

- BI 234 - Microbiology **3 Credit(s)**
- BI 234L - Microbiology Lab **1 Credit(s)**
- PSY 215 - Lifespan Human Development **4 Credit(s)**

Total Credits: 12

28 Prerequisite Credits to be eligible to apply

- See Nursing website for application materials.
- To be admitted into nursing courses, students must complete **all required prerequisite courses (minimum 45 credits)** and be accepted into the Practical Nursing program. In order to meet the 45 credit requirement, any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science elective 0-6 Credit(s) may be used. ⁵
- For students considering the Associate of Applied Science, Nursing: WR 122Z (or WR 227Z) is a recommended elective.

Required Courses

Fall Term

- NRS 110 - Health Promotion **4 Credit(s)**
- NRS 110C - Health Promotion Clinical **5 Credit(s)**
- NRS 232 - Pathophysiological Processes I **3 Credit(s)**

Term Credits: 12

Winter Term

- NRS 111 - Chronic Nursing I **2 Credit(s)**
- NRS 111C - Chronic Nursing I Clinical **4 Credit(s)**
- NRS 230 - Clinical Pharmacology I **3 Credit(s)**
- NRS 233 - Pathophysiological Processes II **3 Credit(s)**

Term Credits: 12

Spring Term

- NRS 112 - Acute Care Nursing I **2 Credit(s)**
- NRS 112C - Acute Care Nursing I Clinical **4 Credit(s)**
- NRS 231 - Clinical Pharmacology II **3 Credit(s)**

Term Credits: 9

Notes:

¹ An acceptable genetics course may replace BI 221Z only if the student has already completed the required anatomy and physiology and microbiology courses.

² MTH 95 or higher-level math (4 credits) and BI 231 must be part of the 28 credits completed by application deadline for application to be eligible. Remaining prerequisite credits for eligibility may be from any of the prerequisite/required preparatory courses. Minimum prerequisite GPA for eligibility is 2.5.

³ No extension beyond the seven-year time limit extension will be granted for anatomy and physiology courses unless granted by discretion of Director of Nursing or Nursing Program Administrator.

⁴ If Life Span Human Development is completed prior to the application deadline, any previously completed transferable 3-4 credit social science course can replace PSY 201Z.

⁵ Electives may be required in prerequisites and applied in order to reach the minimum 45 prerequisite credits. As needed electives may be required if students completed NFM 225, PSY 201, PSY 215, WR121 at 3 credits each, which are acceptable.

For more information:

Phone: 541-956-7500

Email: NursingInfo@roquecc.edu

Web address: www.roquecc.edu/nursing/practicalnursing

TTY: Oregon Telecom Relay Service, 711

Dental Hygiene

Associate of Applied Science

About the Program

This six-term program prepares students to meet requirements to become Dental Hygienists with expanded functions. Successful completion of the program leads to eligibility to sit for the Western Regional Exam Board (WREB). The curriculum is based in Dental Hygiene theory. Students are trained in preventative procedures, periodontology therapy, pain management, dietary and health promotion, restorative treatment, and patient relations.

Program students attend classes as part of a structured cohort that begins once each academic year. Students should apply early as the required mandatory orientation is scheduled several months prior to the scheduled start.

If students intend to transfer to Oregon Tech's Bachelor's Degree in Dental Hygiene program after successfully completing RCC's AAS program, transfer courses should be chosen from the list of electives where possible. See an advisor or visit www.oit.edu.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes (PLO's) for the Dental Hygiene program are:

Demonstrate and evaluate effective interpersonal and communication skills to interact with diverse population groups and other members of the health care team.

Apply evidence-based practice, methodology, and technological practices in the dental field.

Practice the six-step dental hygiene process of care to include: assessment, diagnosis, planning, implementation, evaluation, and documentation of dental hygiene needs of an individual and community and deliver safe and appropriate oral disease therapies.

Articulate and apply ethical, legal and regulatory concepts in support of dental hygiene services.

Demonstrate the ability to provide dental hygiene services to diverse communities and populations to prevent oral disease and promote oral health.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Students attend classes as part of a structured cohort that begins each fall term. Students who plan on entering the Dental Hygiene program should meet with their faculty advisor to develop an academic plan.

Cohort students must meet certain minimum academic requirements before the program application due date. Students can apply for program entry prior to prerequisite completion; however, all listed program prerequisites must be complete with a "C-" or better prior to program

start. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Cohort students must meet certain minimum academic requirements (BI 231, BI 232, BI 233 , BI 234, CHEM 104, CHEM 104L, MTH 65, NFM 225, PSY 101, SOC 204Z, WR 121Z, and COMM 111Z, COMM 115 or COMM 218Z) before the application due date. All listed program prerequisites must be satisfactorily completed before beginning the cohort.

Accepted students will also be required to complete, by a specified deadline, an American Heart Association CPR Health Care Provider course (adult/child/infant, one- and two-person), with AED.

Selection Process

After application submission, students will complete specific health and immunization requirements, drug testing and a criminal background check prior to starting the program. This screening process has an associated fee. Applications received after the application deadline may be reviewed based on cohort capacity and at the discretion of the department. The Dental department strives to accept all students into programs if academic and screening requirements are met, however in the event that cohort capacity is exceeded students may be asked to participate in an interview process. Students entering a cohort are required to attend a mandatory program orientation.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Program Director's recommendation. In order to ensure coursework is current, program courses over five years old must be reviewed and approved by the appropriate Department Coordinator before being accepted toward core requirements. College Now credit will be accepted in accordance with the current agreement.

Graduation Requirements

Students completing all courses in this program with a grade "C" or better will receive their AAS degree. Credits earned in this program can be applied to a Bachelor of Science in Dental Hygiene at a four-year program.

Total Program Credits: 94

Program email address: DentalInfo@roquecc.edu

Prerequisites to Application

- BI 231 - Anatomy and Physiology I **3 Credit(s)**
- BI 231L - Anatomy and Physiology I Lab **1 Credit(s)**
- BI 232 - Anatomy and Physiology II **3 Credit(s)**
- BI 232L - Anatomy and Physiology II Lab **1 Credit(s)**
- BI 233 - Anatomy and Physiology III **3 Credit(s)**

- BI 233L - Anatomy and Physiology III Lab **1 Credit(s)**
- BI 234 - Microbiology **3 Credit(s)**
- BI 234L - Microbiology Lab **1 Credit(s)**
- CHEM 104 - Introductory Chemistry **4 Credit(s)** or higher-level CHEM course
- CHEM 104L - Introductory Chemistry Lab **1 Credit(s)** or higher-level CHEM course
- COMM 111Z - Public Speaking **4 Credit(s)** ¹ or COMM 115 or COMM 218Z
- MTH 65 - Fundamentals of Algebra II **4 Credit(s)** ¹ or higher-level math
- NFM 225 - Nutrition **4 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)** ¹
- SOC 204Z - Introduction to Sociology **4 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)** ¹

Prerequisite Credits: 48-51

Required Courses

First Term

- DH 205 - Dental Infection Control **1 Credit(s)**
- DH 205L - Dental Infection Control Lab **1 Credit(s)**
- DH 106 - Dental Emergency Management **1 Credit(s)**
- DH 106L - Dental Emergency Management Lab **1 Credit(s)**
- DH 101 - Dental Hygiene Theory I **4 Credit(s)**
- DH 101L - Dental Hygiene Practice I **2 Credit(s)**
- DH 113 - Dental Head and Neck Anatomy **4 Credit(s)**
- DH 200 - Oral Biology **2 Credit(s)**

Term Credits: 16

Second Term

- DH 102 - Dental Hygiene Theory II **4 Credit(s)**
- DH 102L - Dental Hygiene Practice II **3 Credit(s)**
- DH 204 - Dental Radiology **4 Credit(s)**
- DH 204L - Radiology Lab **2 Credit(s)**

- DH 270 - Periodontology I **2 Credit(s)**

Term Credits: 15

Third Term

- DH 103 - Dental Hygiene Theory III **3 Credit(s)**
- DH 103L - Dental Hygiene Practice III **4 Credit(s)**
- DH 210 - Oral Pathology **3 Credit(s)**
- DH 220 - Pharmacology **3 Credit(s)**
- DH 271 - Periodontology II **2 Credit(s)**

Term Credits: 15

Fourth Term

- DH 201 - Dental Hygiene Theory IV **2 Credit(s)**
- DH 201L - Dental Hygiene Practice IV **5 Credit(s)**
- DH 240 - Special Needs - Current Trends in DH **3 Credit(s)**
- DH 250 - Restorative Dentistry I **3 Credit(s)**
- DH 260 - Dental Anesthesia - Analgesia **3 Credit(s)**

Term Credits: 16

Fifth Term:

- DH 104 - Dental Materials **1 Credit(s)**
- DH 104L - Dental Materials Lab **1 Credit(s)**
- DH 202 - Dental Hygiene Theory V **2 Credit(s)**
- DH 202L - Dental Hygiene Practice V **6 Credit(s)**
- DH 251 - Restorative Dentistry II **3 Credit(s)**
- DH 230 - Community Dental Health I **3 Credit(s)**

Term Credits: 16

Sixth Term:

- DH 123 - Legal - Ethical Issues in Dentistry **2 Credit(s)**
- DH 203 - Dental Hygiene Theory VI **2 Credit(s)**

- DH 203L - Dental Hygiene Practice VI **6 Credit(s)**
- DH 231 - Community Dental Health II **3 Credit(s)**
- DH 241 - Research and Issues in Oral Health **2 Credit(s)**
- DH 252L - Restorative Dentistry III **1 Credit(s)**

Term Credits: 16

Notes:

¹ Required for graduation.

For more information, contact the Director, Dental Programs

Phone: 541-956-7500

Email: DentalInfo@roguecc.edu

Web address: www.roguecc.edu/dental

TTY: Oregon Telecom Relay Service, 711

Emergency Services

Associate of Applied Science

About the Program

The emergency services degree offers comprehensive career training tailored for entry-level personnel, from EMTs to fire science students. Students complete a rigorous Emergency Medical Technician (EMT) course in the initial year of study, culminating in eligibility to sit for both state and National Registry EMT exams. This foundational training equips students with essential skills and knowledge vital for emergency medical response in the fire or Emergency Medical Services (EMS) field.

In year two, students delve deeper into advanced EMS techniques, honing their expertise in patient care, crisis management, and emergency response strategies. Successful completion of the curriculum not only prepares graduates for the challenges of pre-hospital and fire science fields but also qualifies them to sit for the National Registry exam to become certified paramedics. Students benefit from hands-on training, simulation exercises, and immersive learning experiences throughout their journey, ensuring they are well-prepared to excel in demanding emergency medical situations. Whether responding to medical emergencies or mitigating fire-related risks, graduates emerge as highly-trained professionals ready to make a meaningful impact in their communities. Ideal for fire and EMT apprentices, fire science majors, or individuals seeking to enhance their skills for industry jobs, the Advanced EMS Education degree provides a pathway for ambitious individuals to advance their careers and meet the evolving demands of the field. With a strong emphasis on practical application and professional development, this program empowers graduates to thrive in the fast-paced and critical realm of emergency medical services.

Credit for Prior Learning

Students may be eligible to receive credit toward a certificate or degree based on demonstrated competency of the course learning outcomes from prior learning, training, or experiences. For more information, consult your advisor or a program representative.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Emergency Services Associate of Applied Science are:

Perform a patient assessment and formulate and implement a Basic Life Support treatment plan for patients with a variety of medical and traumatic emergencies.

Demonstrate effective communication, cultural competency, conflict management and intervention skills for people in crisis in simulated emergencies.

Implement self-care strategies and techniques to address the impact of stress and emotional trauma on emergency providers.

Demonstrate leadership, teamwork and decision making in the management treatment, or transport of emergency patients.

Demonstrate workplace expectations regarding attendance, safety, conduct, and professionalism.

Entry Requirements

Students must complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with courses that fit their skill level as determined through placement.

Many of the fire science and emergency medical services courses are special admission. Course and program applications may be required. It is recommended that you review the course or program requirements with an advisor.

Students must be at least 17 years old to apply to the EMT course. Students must be high school graduates or have a GED or equivalent for certification. In addition, students will be required to complete all screening requirements outlined in OAR 409-030-0190 and additional RCC requirements.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Emergency Services Department Chair's recommendation. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the Emergency Services Department chair before being accepted toward core requirements.

Graduation Requirements

Students completing the credits outlined in this program with a grade of "C-" or better and successfully certifying at the EMT level, will earn an Associate of Applied Science degree in Emergency Services Studies. Certain required courses may be graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Students are strongly encouraged to meet with an Emergency Services Department advisor prior to beginning any coursework. This guide lays out an optimal path to graduation. Note, some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 91-93

Program Email Address: EmergencyServicesInfo@roquecc.edu

Term 1

- ES 105 - Introduction to Emergency Services **4 Credit(s)**
- ES 131 - Emergency Medical Technician I **6 Credit(s)**
- ES 295 - Emergency Services Wellness **3 Credit(s)** or HPE 295; Check in with Advisor.
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course; required for graduation
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term Credits: 16-17

Term 2

- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101
- ES 132 - Emergency Medical Technician II **6 Credit(s)**
- ES 205 - Crisis Recognition and Care **3 Credit(s)**
- Approved Program Elective - Consider FRP Courses for a fire science focus, or AH 100 for EMS focus.

Term Credits: 15

Term 3

- EMS 270 - Paramedic Preparation **3 Credit(s)**
- ES 106 - Communications - Emergency Services **3 Credit(s)**
- ES 171 - Emergency Vehicle Operations **2 Credit(s)**
- ES 268 - Emergency Service Rescue **3 Credit(s)**
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or MTH 102CT or higher-level math, consider MTH 105Z for future transfer

Term Credits: 15

Students are strongly encouraged to complete all courses listed above prior to starting the Paramedic Care series. Entrance into year two of the program requires the completion of all term 1-3 courses with the exception of ES 268, ES 171, ES 205, ES 295 which may be taken during the final program year. Meet with an advisor for guidance and details on course requirements.

Term 4

- EMS 271 - Paramedic Care and Practice I **9 Credit(s)**
- EMS 281 - Paramedic Clinical Practice I **3 Credit(s)**

Term Credits: 12

Term 5

- EMS 272 - Paramedic Care and Practice II **9 Credit(s)**
- EMS 282 - Paramedic Clinical Practice II **3 Credit(s)**

Term Credits: 12

Term 6

- EMS 273 - Paramedic Care and Practice III **9 Credit(s)**

- EMS 283 - Paramedic Clinical Practice III **3 Credit(s)**

Term Credits: 12

Term 7

- EMS 284 - Paramedic Clinical Capstone **9 Credit(s)**

Term Credits: 9

Approved Program Electives (3-4 credits required)

- Any college-level (100 or 200 numbered) transferrable non-studio humanities, social science, or science electives.
- Any EMS, ES, or FRP 100 or higher course.

Emergency Medical Service and Inservice Training

Credits may be applied to the Emergency Services AAS degree for students who have completed documented EMS education or specific pre-hospital care experience comparable to course content. See the Emergency Services Department chair for information.

For more information, contact the Emergency Services Department:

Phone: 541-956-7500

Email: EmergencyServicesInfo@roguecc.edu

Web address: www.roguecc.edu/emergencyservices

TTY: Oregon Telecom Relay Service, 711

Fire Science

Associate of Applied Science

About the Program

The fire service is a highly dynamic profession that offers a variety of daily challenges to the professionals who work within it. The primary mission of the RCC Fire Science program is to prepare students for careers as firefighters. Students who complete the program will be prepared to meet the unique demands of a rewarding profession. The program prides itself on delivering the highest education available by following standards set by the National Fire Protection Association (NFPA) and the Fire Emergency Services Higher Education (FESHE). Fire Science program coursework is accredited by the Oregon Department of Public Safety Standards and Training.

Credit for Prior Learning

Students may be eligible to receive credit toward a certificate or degree based on demonstrated competency of the course learning outcomes from prior learning, training, or experiences. For more information, consult your advisor or a program representative.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Fire Science Associate of Applied Science are:

Perform an adequate patient assessment and formulate and implement a Basic Life Support treatment plan for patients with a variety of medical and traumatic emergencies.

Perform safe and effective fire suppression techniques and hazard mitigation utilizing tools and appliances under high levels of stress.

Describe and use defensive and safe driving techniques and the operation of emergency vehicles and fire pumps.

Demonstrate leadership, teamwork and decision making in the management, treatment, or transport of emergency patients.

Describe and apply fire prevention, inspection, and investigations on and off the fire ground.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

The Fire Science program advisor will work with each student to design an individualized sequence of instruction.

Students must be at least 17 years old to apply to the ES 131 course. Students must be a high school graduate or have a GED® or equivalent for certification. In addition, students will be

required to complete all screening requirements outlined in OAR 409-030-0190 and additional RCC requirements.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Fire Science Program Coordinator's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 91-93

Program Email Address: EmergencyServicesInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement

Prerequisite Credits: 0-4

Term 1

- ES 105 - Introduction to Emergency Services **4 Credit(s)**
- FRP 251 - Firefighter Essentials I **8 Credit(s)** ¹
- FRP 256 - Fire Behavior and Combustion **2 Credit(s)**
- FRP 261 - HazMat Awareness and Operations **2 Credit(s)**

Term Credits: 16

Term 2

- ES 131 - Emergency Medical Technician I **6 Credit(s)**
- FRP 233 - Firefighter Safety and Survival **3 Credit(s)**
- FRP 252 - Firefighter Essentials II **4 Credit(s)**

- FRP 262 - Fundamentals of Fire Prevention **3 Credit(s)**

Term Credits: 16

Term 3

- ES 132 - Emergency Medical Technician II **6 Credit(s)**
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or MTH 102CT or higher-level math. Speak to an advisor, consider MTH 105Z if transferring.
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term Credits: 13-14

Term 4

Check in with Advisor

- ES 106 - Communications - Emergency Services **3 Credit(s)**
- ES 171 - Emergency Vehicle Operations **2 Credit(s)**
- ES 268 - Emergency Service Rescue **3 Credit(s)**
- ES 295 - Emergency Services Wellness **3 Credit(s)** or HPE 295
- FRP 242 - Codes and Ordinances Introduction **3 Credit(s)**

Term Credits: 14

Term 5

- FRP 249 - Fire Service Leadership **3 Credit(s)**
- FRP 258 - Pumper Operator **3 Credit(s)**
- FRP 272 - Fixed Systems and Extinguishers **3 Credit(s)**
- FRP 273 - Fire Investigation **3 Credit(s)**
- Any college-level (100-200 numbered) transferrable non-studio humanities, social science or science electives. **2 Credit(s)** or other approved program elective. Speak to your advisor.

Term Credits: 14

Term 6

- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101

- ES 205 - Crisis Recognition and Care **3 Credit(s)**
- FRP 259 - Water Supply Operations **3 Credit(s)**
- FRP 264 - Fire Service Building Construction **3 Credit(s)**
- FRP 274 - Firefighting Strategy and Tactics **3 Credit(s)**
- FRP 285 - Fire Instructor I **3 Credit(s)**

Term Credits: 18

Approved Program Electives

2-3 Credits Required

- Any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science elective(s) credits as needed to meet 90 credits.
- Any EMS, ES, or FRP 100 or higher course.

Notes:

¹ FRP 251 taken previously for 8 credits but without a separate lab is also acceptable.

For more information, contact the Fire Science Department:

Phone: 541-956-7500

Email: EmergencyServicesInfo@roguecc.edu

Web address: www.roguecc.edu/emergencyservices

TTY: Oregon Telecom Relay Service, 711

Medical Assisting Administrator

Associate of Applied Science

About the Program

The Medical Assisting Administrator two-year degree provides an opportunity for students to become a Certified Clinical Medical Assistant in year one and then continue on to obtain an Associate of Applied Science degree to serve in a medical office supervisory role. This program is designed to ensure a graduate can work both the front office and the back office of a medical office. This degree provides for flexibility in selecting elective classes while allowing students to investigate a wide range of areas within the healthcare and business convergence. Students who want a general business foundation will be well served by the Medical Assisting Administrator AAS degree.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Medical Assisting Administrator Associate of Applied Science are:

Describe medical terminology used in various health care environments.

Identify skills and training required for healthcare positions.

Perform and document routine clinical procedures according to current office protocols.

Perform and document routine administrative procedures according to current office protocols.

Explain legal and ethical standards for confidentiality and patient privacy.

Demonstrate industry standards of infection control and safety principles.

Develop critical thinking by applying problem-solving techniques to various areas of business.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Prior to placement in a practicum, student must complete:

- specific health and immunization requirements, as required by the practicum facility;
- a criminal background check; and
- a drug screening (including an associated fee)

For more information:

- contact the Allied Health Occupations Department

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department head before being accepted toward core requirements. College Now credit will be accepted in accordance with the current articulation agreement.

Credits earned in the successful completion of this program can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

To graduate, students must complete all courses in this program with a grade of "C-" or better. Certain prerequisite courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90-92

Program Email Address: AlliedHealthInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement

Prerequisite Credits: 0-4

Term 1

- AH 100 - Medical Terminology - Introduction **3 Credit(s)**
- AH 111 - Healthcare Communication **1 Credit(s)**
- CG 155 - Exploring Careers in Health Care **3 Credit(s)**
- BA 101Z - Introduction to Business **4 Credit(s)**
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term Credits: 14-15

Term 2

- AH 22 - Healthcare Calculations **3 Credit(s)**
- AH 101 - Medical Assistant I Administrative **3 Credit(s)**
- BA 131 - Introduction to Business Computing **4 Credit(s)**
- BT 111 - Conflict Management **2 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)** or higher-level writing course

Term Credits: 16

Term 3

- AH 102 - Medical Assistant II Clinical **4 Credit(s)**
- AH 104 - Phlebotomy **3 Credit(s)**
- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101
- BI 100SB - Biology of Human Body Systems **3 Credit(s)**
- COMM 218Z - Interpersonal Communication **4 Credit(s)** or COMM 115

Term Credits: 17

Term 4

- AH 103 - Medical Assistant III Specialty **5 Credit(s)**
- AH 123 - Healthcare Legal and Ethical Issues **2 Credit(s)**
- BA 214 - Business Communications **4 Credit(s)**
- MTH 102CT - Math for CTE Professionals **4 Credit(s)**

Term Credits: 15

Term 5

- AH 108 - Intro to Pharmacology **3 Credit(s)**
- AH 202 - Healthcare Infection Control **1 Credit(s)**
- BA 169Z - Data Analysis Using Microsoft Excel **4 Credit(s)**
- BA 224 - Human Resource Management **3 Credit(s)**
- BT 123 - Introduction to Supervision **3 Credit(s)** or approved elective
- HE 261 - CPR - Basic Life Support Provider **1 Credit(s)**

Term Credits: 15

Term 6

- AH 170MA - MA Practicum and Seminar **7 Credit(s)**
- BT 204 - Project Management **3 Credit(s)**
- COMM 115 - Intercultural Communication **4 Credit(s)** or approved elective

Term Credits: 14

Approved Program Electives

Complete a sufficient number of elective credits, in order to meet minimum program requirement of 90 credits. Note: some courses listed may require additional pre-requisite(s).

- AH 110 - Medical Terminology - Clinical **3 Credit(s)**
- AH 130 - Medical Insurance and Billing **4 Credit(s)**
- AH 170PH - Phlebotomy Practicum **2 Credit(s)**
- AH 280 - CWE - Allied Health **Var. (1-12) Credit(s)**
- BT 123 - Introduction to Supervision **3 Credit(s)**
- BT 168 - Advanced Applications - Word **3 Credit(s)**
- CIS 120 - Concepts in Computing I **2 Credit(s)**
- COMM 111Z - Public Speaking **4 Credit(s)**
- COMM 115 - Intercultural Communication **4 Credit(s)** (if not taken as part of core)
- COMM 218Z - Interpersonal Communication **4 Credit(s)** (if not taken as part of core)
- ES 105 - Introduction to Emergency Services **4 Credit(s)**
- HC 100 - Community Health Worker **6 Credit(s)**
- HE 250 - Personal Health **3 Credit(s)**
- HPE 295 - Health and Fitness for Life **3 Credit(s)**
- NFM 225 - Nutrition **4 Credit(s)**
- PRX 101 - Pharmacy Technician I **4 Credit(s)**
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**
- SOC 204Z - Introduction to Sociology **4 Credit(s)**
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)**

Notes:

¹ Course can be taken within program. See program advisor if you have American Heart Association (AHA) BLS Provider certification. AHA must remain current for the duration of the program.

For more information, contact the Allied Health Occupations office:

Phone: 541-956-7500

Email: AlliedHealthInfo@roguecc.edu

Web address: www.roguecc.edu/alliedhealth

TTY: Oregon Telecom Relay Service, 711

Nursing

Associate of Applied Science

Fall /Spring Term 2026-27 Program Admission

About the Program

RCC is a member of the Oregon Consortium for Nursing Education (OCNE) and offers a competency-based curriculum jointly developed by nursing faculties from the nine community colleges and Oregon Health and Science University (OHSU) consortium partners. The core competencies address the need for nurses to be skilled in clinical judgment and critical thinking; evidence-based practice; relationship-centered care; interdisciplinary collaboration; assisting individuals and families in self-care practices for the promotion of health and management of chronic and acute illness; end-of-life care; and teaching, delegation, leadership and supervision of caregivers.

Acceptance to the RCC Nursing program is a full-time commitment to two (2) years of nursing courses (after completing one (1) year of prerequisite/preparatory course work of 45 credits minimum and application to the limited-entry program.) Applicants admitted to the RCC Nursing program are co-admitted to the OHSU Nursing programs, and once students complete their Associate Degree in the Nursing program at RCC, the OCNE curriculum provides entry to OHSU's Nursing program. Continued full-time study for four (4) more terms leads to a Bachelor of Science degree in Nursing.

Graduates of the Rogue Community College Nursing program are eligible to sit for the NCLEX-RN licensure testing. Students who choose to complete their BS of Nursing through the OHSU School of Nursing program must complete an additional 15 credits of upper-division college credits to progress into nursing courses for the bachelor's degree through OHSU. RCC's Statistics course will apply, but all other upper-level courses must be taken at a college or university with 300+ level courses.

Options available for baccalaureate completion can be found at [Oregon School of Nursing](#).

The Nursing program is approved by the Oregon State Board of Nursing (17938 SW Upper Boones Ferry Rd., Portland, OR, 971-673-0685, www.oregon.gov/OSBN).

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Ten collaboratively created OCNE competencies drive the curriculum. Program learning outcomes for the Nursing Associate of Applied Science are:

Base personal and professional actions on a set of shared core nursing values, including social justice, caring, advocacy, protection of patient autonomy, prevention of harm, respect for self and others, collegiality, authority, accountability, responsibility for nursing practice and ethical behavior.

Use reflection, self-analysis, and self-care to develop insight.

Engage in intentional learning, developing self-awareness of the goals, processes, and potential actions of this learning and its effects on patient/client care.

Demonstrate leadership in nursing and health care to meet patient/client needs, improve the health care system, and facilitate community problem-solving.

Collaborate as part of a healthcare team, providing, receiving, and using feedback in a constructive manner.

Practice within, utilize, and contribute to all health care systems.

Practice a relationship-centered approach, based on developing mutual trust and respect for the autonomy of the patient/client.

Communicate effectively, accurately and therapeutically, with attention to social and cultural influences, and use appropriate communication modalities and technologies to ensure patient safety and provide for comprehensive continuity of care.

Make sound clinical judgments through an iterative process of noticing, interpreting, responding, and reflecting, using the best available evidence, frameworks and systems to organize data and knowledge; accurately perform cognitive, affective and psychomotor skills in the delivery of care while maintaining safety of the patient/client, family, community, environment, and self.

Locate, evaluate, and use the best available evidence.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training, students must begin with the courses within their skill level as determined through the Placement Process. Students who have failed any two nursing courses (RN level, any program) are disqualified from applying for entry or re-entry to the RCC Nursing Program.

Program admission occurs once a year. **Deadline for submitting program application material is February 15 for fall / spring term admission** (see program website and/or application packet for more information). Transcripts showing satisfactory completion of MTH 95 and BI 231 / BI 231L Anatomy and Physiology I prerequisites and at least 20 other credits of the prerequisite courses (minimum of 28 credits) must be in the Enrollment Services office by the application deadline to be considered eligible.

All prerequisite courses must have been taken with a letter grade and completed with a "C-" or better. Consortium partner schools will use shared standards in a point system and a set of core criteria for the evaluation and selection of candidates to the consortium curriculum, but selection processes, acceptance decisions, and admissions will occur at individual schools. Application to the Nursing program requires a minimum GPA of 3.0 for all completed prerequisite courses. See the Nursing website for information regarding the application and selection process.

If an applicant has taken an equivalent course elsewhere that has a course number, title, or credit hour different from the RCC course, the applicant must contact RCC's Enrollment Services office for a transfer credit evaluation as far in advance of the application deadline as possible. To be admitted into nursing courses students must complete all required prerequisite courses (minimum 45 credits) and be accepted into the Nursing program.

Accepted students must pass a criminal history background check and urine drug screen before nursing clinical experiences or their acceptance will be rescinded. Information regarding the background check and drug screen requirements can be found on the program's website with additional information and deadlines provided to students following acceptance and before fall nursing classes begin. Accepted students will also be required to complete, by a specified deadline, an American Heart Association CPR Health Care Provider course (adult/child/infant, one- and two-person), with AED. Course must have been successfully completed within two

years before admission to nursing courses. CPR cards must be kept current throughout the program. Information regarding required immunizations will be provided in the acceptance letter.

Internet and email access are an integral part of all nursing courses and access to a computer and printer (at home and at the college) will be required daily. Nursing students attend classes at the Table Rock Campus in White City. For the clinical practicum in both Josephine and Jackson Counties, the student will need reliable transportation. See the program website and/or program information for progression policies.

Graduation Requirements

These requirements apply only to nursing students admitted to the program during the 2026-27 academic year. The program of study, graduation requirements, and courses are under constant review and are subject to revision. Students contemplating admission in a later year may have different requirements and must obtain the program map or catalog for that year. If required courses (i.e., clinicals) are graded only on a pass/no pass basis, a grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade.

Students must complete all Nursing courses on this program map with a grade of "C" or better to continue in and complete the program, receive their degrees, and meet the educational requirements to apply to take the national licensure exam (NCLEX-RN). Admission and completion of the Nursing AAS at RCC does not guarantee an OSBN licensure. The OSBN screens all applicants for licensure and may deny licensure applicants with a criminal offense or with a major physical or mental condition that could affect their ability to practice nursing safely. Contact the OSBN with any questions.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation.

Please consult an advisor with any program completion questions.

Fall Prerequisite Courses

- BI 112 - Biology for Health Professions **3 Credit(s)** or BI 221Z ¹
- BI 112L - Biology for Health Professions Lab **1 Credit(s)** or BI 221Z ¹
- MTH 95 - Intermediate Algebra **4 Credit(s)** or higher-level math course ²
- WR 121Z - Composition I **4 Credit(s)** ³

Total Credits: 12-13

Winter Prerequisite Courses

- BI 231 - Anatomy and Physiology I **3 Credit(s)** ^{2, 4}
- BI 231L - Anatomy and Physiology I Lab **1 Credit(s)** ^{2, 4}
- WR 122Z - Composition II **4 Credit(s)** ³ or WR 227Z

Total Credits: 8

Spring Prerequisite Courses

- BI 232 - Anatomy and Physiology II **3 Credit(s)** ⁴
- BI 232L - Anatomy and Physiology II Lab **1 Credit(s)** ⁴
- NFM 225 - Nutrition **4 Credit(s)**
- PSY 201Z - Introduction to Psychology I **4 Credit(s)** ⁵

Total Credits: 12

Fall Prerequisite Courses

- BI 233 - Anatomy and Physiology III **3 Credit(s)** ⁴
- BI 233L - Anatomy and Physiology III Lab **1 Credit(s)** ⁴
- BI 234 - Microbiology **3 Credit(s)**
- BI 234L - Microbiology Lab **1 Credit(s)**
- PSY 215 - Lifespan Human Development **4 Credit(s)**

Total Credits: 12

28 Prerequisite Credits to be eligible to apply

Remaining Prerequisite Credits (17) to be completed before admission to Nursing courses. See Nursing website for application materials.

To be admitted into nursing courses, students must complete **all required prerequisite courses (minimum 45 credits)** and be accepted into the Nursing program. In order to meet the 45 credit requirement, any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science elective 0-6 Credit(s) may be used. ⁶

First Year Nursing Course Requirements

Fall Term

- NRS 110 - Health Promotion **4 Credit(s)**
- NRS 110C - Health Promotion Clinical **5 Credit(s)**
- NRS 232 - Pathophysiological Processes I **3 Credit(s)**

Total Credits: 12

Winter Term

- NRS 111 - Chronic Nursing I **2 Credit(s)**

- NRS 111C - Chronic Nursing I Clinical **4 Credit(s)**
- NRS 230 - Clinical Pharmacology I **3 Credit(s)**
- NRS 233 - Pathophysiological Processes II **3 Credit(s)**

Total Credits: 12

Spring Term

- NRS 112 - Acute Care Nursing I **2 Credit(s)**
- NRS 112C - Acute Care Nursing I Clinical **4 Credit(s)**
- NRS 231 - Clinical Pharmacology II **3 Credit(s)**

Any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science electives **3 Credit(s)** ⁷

Total Credits: 12

Second Year Nursing Course Requirements

Fall Term

- NRS 221 - Chronic Nursing II **5 Credit(s)**
- NRS 221C - Chronic Nursing II Clinical **4 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)** or BA 120

Total Credits: 12

Winter Term

- NRS 222 - Acute Care Nursing II **5 Credit(s)**
- NRS 222C - Acute Care Nursing II Clinical **4 Credit(s)**
- Any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science electives **3 Credit(s)** ⁷

Total Credits: 12

Spring Term

- NRS 224 - Integrative Practicum **2 Credit(s)**
- NRS 224C - Integrative Practicum Clinical **7 Credit(s)**
- Any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science electives **3 Credit(s)** ⁷

Total Credits: 12

Total Program Credits: 100

INCLUDING 28 PREREQUISITE CREDITS REQUIRED TO APPLY

Notes:

¹ An acceptable genetics course may replace BI 221Z only if the student has already completed the required anatomy and physiology and microbiology courses.

² MTH 95 or higher-level math (4 credits) and BI 231 must be part of the 28 credits completed by application deadline for application to be eligible. Remaining prerequisite credits for eligibility may be from any of the prerequisite/required preparatory courses. Minimum prerequisite GPA for eligibility is 3.0.

³ To fulfill prerequisite requirements, students must have 6 writing credits. To matriculate into the program, students must have 8 writing credits. Those who have not completed a writing series that includes research writing or have not earned a bachelor's degree from a regionally accredited college or university in an English-speaking country must take a research writing course, such as WR 122Z (4 credits, including research writing) or WR 227Z.

⁴ No extension beyond the seven-year time limit extension will be granted for anatomy and physiology courses unless granted by discretion of Director of Nursing or Nursing Program Administrator.

⁵ If Life Span Human Development is completed prior to the application deadline, any previously completed transferable 3-4 credit social science course can replace PSY 201Z.

⁶ Electives may be required in prerequisites and applied in order to reach the minimum 45 prerequisite credits. As needed electives may be required if students completed NFM 225, PSY 201, PSY 215, WR121 and WR122, at 3 credits each, which are acceptable.

⁷ A minimum of 9 credits of humanities is required for the OHSU degree. Students planning to transition to OHSU must have 132 credits of prerequisite and program required courses by the completion of the AAS degree in order to meet the 180-credit requirement by the completion of the bachelor's degree with a major in Nursing from OHSU. Students planning to earn a bachelor's degree are encouraged to complete STAT 243Z.

For more information contact the Nursing Department:

Phone: 541-956-7500

Email: NursingInfo@roquecc.edu

Web address: www.roquecc.edu/Nursing

TTY: Oregon Telecom Relay Service, 711

Paramedicine

Associate of Applied Science

About the Program

The Emergency Medical Services (EMS) program offers career training for entry-level personnel ranging from EMTs to paramedics. During the first year of study, successful completion of the EMT course leads to eligibility to sit for the state and National Registry EMT exams. Successful completion of this curriculum qualifies the graduate to sit for the state and national registry exams to become a paramedic.

Credit for Prior Learning

Students may be eligible to receive credit toward a certificate or degree based on demonstrated competency of the course learning outcomes from prior learning, training, or experiences. For more information, consult your advisor or a program representative.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for Paramedicine Associate of Applied Science are:

Perform a patient assessment and formulate and implement an Advanced Life Support treatment plan for patients with a variety of medical and traumatic emergencies.

Demonstrate effective communication, cultural competency, and conflict management and intervention skills for people in crisis in simulated emergencies.

Implement self-care strategies and techniques to address the impact of stress and emotional trauma on emergency providers.

Demonstrate leadership, teamwork and decision making in the management treatment, or transport of emergency patients.

Demonstrate workplace expectations regarding attendance, safety, conduct, and professionalism.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

This program requires an application and satisfaction of certain course admission criteria prior to enrolling in paramedic courses. Information is available on the Emergency Medical Services (EMS) Department website or at the Emergency Services Department office located at the RCC Table Rock Campus. Students are strongly encouraged to meet with an Emergency Services Department advisor prior to beginning any coursework.

Students must be at least 17 years old to apply to the EMT course. Students must be high school graduates or have a GED or equivalent for certification. In addition, students will be required to

complete all screening requirements outlined in OAR 409-030-0190 and additional RCC requirements.

Graduation Requirements

Students completing the credits outlined in this program with a grade of "C-" or better and successfully certifying at the EMT level, will earn an Associate of Applied Science degree in Paramedicine. Certain required courses may be graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Students are strongly encouraged to meet with an Emergency Services Department advisor prior to beginning any coursework. This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90-93

Program Email Address: EmergencyServicesInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- BI 112 - Biology for Health Professions **3 Credit(s)**¹ and BI 112L, or BI 221Z (prerequisite for BI 231)
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or MTH 102CT or higher-level math, required for graduation. Consider MTH 105Z for future transfer.
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course; required for graduation
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 11-13

Term 1

Check in with Advisor

- BI 231 - Anatomy and Physiology I **3 Credit(s)**
- BI 231L - Anatomy and Physiology I Lab **1 Credit(s)**
- ES 105 - Introduction to Emergency Services **4 Credit(s)**
- ES 106 - Communications - Emergency Services **3 Credit(s)**
- ES 131 - Emergency Medical Technician I **6 Credit(s)**

Term Credits: 17

Term 2

- BI 232 - Anatomy and Physiology II **3 Credit(s)**
- BI 232L - Anatomy and Physiology II Lab **1 Credit(s)**
- ES 132 - Emergency Medical Technician II **6 Credit(s)**
- ES 295 - Emergency Services Wellness **3 Credit(s)** or HPE 295

Term Credits: 13

Term 3

- AH 100 - Medical Terminology - Introduction **3 Credit(s)**
- BI 233 - Anatomy and Physiology III **3 Credit(s)**
- BI 233L - Anatomy and Physiology III Lab **1 Credit(s)**
- ES 171 - Emergency Vehicle Operations **2 Credit(s)**
- ES 205 - Crisis Recognition and Care **3 Credit(s)**
- ES 268 - Emergency Service Rescue **3 Credit(s)**

Term Credits: 15

Students are required to have completed a minimum of 39 credits, including EMT and the anatomy and physiology series before they are eligible to begin the paramedic course. Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, Anatomy & Physiology courses over 5 years old and EMS program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Term 4

Check in with Advisor

- EMS 271 - Paramedic Care and Practice I **9 Credit(s)** fall term only
- EMS 281 - Paramedic Clinical Practice I **3 Credit(s)** fall term only

Term Credits: 12

Term 5

- EMS 272 - Paramedic Care and Practice II **9 Credit(s)** winter term only
- EMS 282 - Paramedic Clinical Practice II **3 Credit(s)** winter term only

Term Credits: 12

Term 6

- EMS 273 - Paramedic Care and Practice III **9 Credit(s)** spring term only
- EMS 283 - Paramedic Clinical Practice III **3 Credit(s)** spring term only

Term Credits: 12

Term 7

- EMS 284 - Paramedic Clinical Capstone **9 Credit(s)**

Term Credits: 9

Approved Program Electives (0-3 Credits Required)

- Any college-level (100 or 200 numbered) transferrable non-studio humanities, social science, or science electives **variable Credit(s)**
- Any EMS, ES or FRP 100 or higher course **variable Credit(s)**

Emergency Medical Service and Inservice Training

Credits may be applied to the Paramedicine AAS degree for students who have completed documented EMS education or specific pre-hospital care experience comparable to course content. See the Emergency Services Department chair for information.

Notes:

¹ BI 112 / BI 112L or BI 221Z is a prerequisite to BI 231 / BI 231L

CHEM 104 / CHEM 104L is also highly recommended.

For more information, contact the Emergency Services Department:

Phone: 541-956-7500

Email: EmergencyServicesInfo@roguecc.edu

Web address: www.roguecc.edu/emergencyservices

TTY: Oregon Telecom Relay Service, 711

Health and Exercise Science Transfer to SOU

Associate of Science

About the Program

The Associate of Science (AS) degree is based on a signed articulation agreement with Southern Oregon University (SOU). The program is designed for students transferring to SOU's bachelor's degree program in Health and Exercise Science. Students must work closely with advisors in their areas of interest to ensure electives are appropriate.

The curriculum allows for 48 core credits within the major area. By completing all appropriate credits (including electives), students will fulfill required lower division coursework for transfer to SOU. Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the transfer requirements of the college of their choice.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Health and Exercise Science Transfer to Southern Oregon University degree are:

Apply principles based on scientific evidence from fitness, health and exercise science research.

Describe the connections between leading health problems in the U.S. and exercise as medicine.

Explain best practices for addressing nutritional requirements for health.

Describe the connections between emotional well-being and physical wellness.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C-" or better. Certain required courses are also graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult with an advisor regularly as you complete your transfer degree.

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Total Program Credits: 92-94

Program email address: HPERInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- CIS 120 - Concepts in Computing I **2 Credit(s)** ¹ Required for graduation.
- MTH 96 - Applied Algebra II **4 Credit(s)** or MTH 95 or higher-level math
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or higher-level composition
- as required based on placement WR 115Q - Corequisite Support for WR115 **1 Credit(s)**

Prerequisite Credits: 0-10

Fall

Check in with Advisor

- BI 221Z - Principles of Biology - Cells **5 Credit(s)**
- HE 131 - Intro to Exercise and Sport Science **3 Credit(s)**
- HE 253 - Wilderness First Aid **3 Credit(s)** or approved program elective course (credits vary)
- HPE 295 - Health and Fitness for Life **3 Credit(s)**
- PE 185WT - Weight Training - Conditioning **1 Credit(s)** or approved PE course

Term Credits: 15

Winter

- BI 222Z - Principles of Biology - Organisms **5 Credit(s)** ² any other science or non-science lower division transfer course
- HE 259 - Athletic Injury Care and Prevention **3 Credit(s)** winter term only
- PE 185CO - Core and Cardio **1 Credit(s)** or approved PE transfer course
- STAT 243Z - Elementary Statistics I **4 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 17

Spring

- COMM 225 - Small Group Communication **4 Credit(s)** or COMM 111Z or COMM 218Z
- HE 252 - First Aid - CPR **3 Credit(s)**
- NFM 225 - Nutrition **4 Credit(s)**
- PE 185BP - Backpacking Adventure **1 Credit(s)** or approved PE transfer course
- WR 122Z - Composition II **4 Credit(s)**

Term Credits: 16

Fall

Check in with Advisor

- BI 231 - Anatomy and Physiology I **3 Credit(s)**
- BI 231L - Anatomy and Physiology I Lab **1 Credit(s)**
- HE 250 - Personal Health **3 Credit(s)**
- PE 185CT - Circuit Training **1 Credit(s)** or approved PE transfer course
- PHL 101 - Philosophical Problems **4 Credit(s)** or approved Humanities course (credits vary)
- PSY 101 - Psychology of Human Relations **3 Credit(s)** or approved Social Science course (credits vary) or PSY 119 or SOC 230

Term Credits: 15

Winter

- AH 100 - Medical Terminology - Introduction **3 Credit(s)**
- BI 232 - Anatomy and Physiology II **3 Credit(s)**
- BI 232L - Anatomy and Physiology II Lab **1 Credit(s)**
- OAL 250 - Outdoor Adventure and Leadership **3 Credit(s)** or approved program elective
- PE 185WS - Winter Survival - Camping Adventure **1 Credit(s)** or approved PE185 transfer course
- PE 185MA - Mountaineering Adventure **1 Credit(s)** or approved program elective
- PHL 102 - Ethics **4 Credit(s)** or ART 131 or approved Humanities course (credits vary)

Term Credits: 16

Spring

- BI 233 - Anatomy and Physiology III **3 Credit(s)**
- BI 233L - Anatomy and Physiology III Lab **1 Credit(s)**
- HE 145 - Stress Management - Healthy Living **1 Credit(s)** or HE 199 or approved program elective
- HE 208 - HIV and Infectious Diseases **1 Credit(s)** fall RWC, spring RVC
- PE 185LS - Lap Swimming **1 Credit(s)** or approved PE185 transfer course
- PE 185YF - Yoga Flow **1 Credit(s)** or approved PE185 transfer course
- PE 280 - CWE - Physical Education **Var. (1-12) Credit(s)** Department Chair approval needed
- REL 201 - World Religions **4 Credit(s)** or approved Humanities course (credits vary)

Term Credits: 14

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Humanities Electives

Complete at least three courses from the following list, 9-12 credits.

- ART 131 - Introduction to Drawing - Value **3 Credit(s)**
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- COMM 115 - Intercultural Communication **4 Credit(s)**
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**

- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 257 - African American Literature **4 Credit(s)**
- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**

- PHL 102 - Ethics **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**
- TA 141 - Fundamentals of Acting I **4 Credit(s)**
- WR 241 - Imaginative Writing I **4 Credit(s)**
- WR 242 - Imaginative Writing II **4 Credit(s)**
- WR 243 - Imaginative Writing III **4 Credit(s)**

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Social Science Electives

Complete at least one course from the following list, 3-4 credits.

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)**
- ANTH 150 - Introduction to Archaeology **4 Credit(s)**
- BA 101Z - Introduction to Business **4 Credit(s)**
- SOC 244 - Introduction to Criminology **4 Credit(s)**
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- COMM 237 - Communication and Gender **4 Credit(s)**
- ECON 115 - Introduction to Economics **3 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- GEOG 110 - Introduction to Human Geography **4 Credit(s)**
- GEOG 120 - World Regional Geography **4 Credit(s)**
- HST 104 - World Civ Prehistory - Middle Ages **4 Credit(s)**
- HST 105 - World Civ Byzantium - Present **4 Credit(s)**
- HST 201 - US History through Reconstruction **4 Credit(s)**
- HST 202 - US HST Post Reconstruction-Present **4 Credit(s)**

- IS 110 - Intro to International Studies **4 Credit(s)**
- PS 201 - US Gov Institutions and Policy **4 Credit(s)**
- PS 202 - US Gov Ideologies and Engagement **4 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**
- PSY 119 - Psychology of Personal Growth **4 Credit(s)**
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**
- PSY 202Z - Introduction to Psychology II **4 Credit(s)**
- PSY 215 - Lifespan Human Development **4 Credit(s)**
- PSY 219 - Introduction to Abnormal Psychology **4 Credit(s)**
- PSY 231 - Human Sexuality **3 Credit(s)**
- SOC 204Z - Introduction to Sociology **4 Credit(s)**
- SOC 205Z - Social Change and Institutions **4 Credit(s)**
- SOC 206Z - Social Problems **4 Credit(s)**
- SOC 211 - Social Deviance and Social Control **3 Credit(s)**
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)**
- SOC 218 - Sociology of Gender **4 Credit(s)**
- SOC 228 - Environment and Society **4 Credit(s)**
- SOC 230 - Aging and Society **4 Credit(s)**
- SOC 235 - Chicano-a and Latino-a US History **4 Credit(s)** or HST 259

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Program Electives

Select 7-9 credits from a related field, not otherwise required within the base program or option area.

Notes:

¹ Approved Computer Information Science or Computer Science class, CIS 120 / CS120 or above, or documented computer proficiency within the past ten years.

² BI 222Z (highly recommended) or any other science or non-science lower division transfer course.

For more information, contact the Health/PE/Recreation Department:

Phone: 541-956-7500

Email: HPERInfo@roquecc.edu

Web address: www.roquecc.edu/HPER

TTY: Oregon Telecom Relay Service, 711

Health Informatics Transfer to Oregon Tech

Associate of Science

About the Program

This Associate of Science (AS) degree is based on a signed articulation agreement with Oregon Tech. The program is designed for students transferring to its baccalaureate degree program in Information Technology/Health Informatics Option. Students must work closely with advisors in their areas of interest to ensure electives are appropriate. The curriculum allows for 42 core credits within the major area. By completing all appropriate credits (including electives), students will fulfill required lower division coursework for transfer to Oregon Tech.

Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the transfer requirements of the college of their choice.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. The program learning outcomes for the Health Informatics - Transfer to Oregon Tech degree are:

Demonstrate the knowledge, techniques, skills, and modern tools of the discipline to defined health systems technology.

Ability to design and implement health systems using the latest technology and standard best practices.

Ability to identify, analyze, and solve technical issues with the use of health systems and technology.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C-" or better. Certain required courses are graded on a pass/no pass

basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90-92

Program email address: ComputerScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- CIS 120 - Concepts in Computing I **2 Credit(s)**
- MTH 95 - Intermediate Algebra **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 2-10

Fall

Check in with Advisor

- BA 211Z - Principles of Financial Accounting **4 Credit(s)**
- CIS 145 - Introduction to Hardware - Software **5 Credit(s)**
- MTH 111Z - Precalculus I - Functions **4 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 17

Winter

- AH 100 - Medical Terminology - Introduction **3 Credit(s)**
- BA 213Z - Principles of Managerial Accounting **4 Credit(s)**
- BA 223 - Principles of Marketing **3 Credit(s)**
- CIS 179 - Introduction to Networks **4 Credit(s)**

Term Credits: 14

Spring

- ART 116 - Basic Design - Color Theory **3 Credit(s)** or approved transferable general elective as needed (see advisor)
- CIS 240 - Advanced Operating Systems **4 Credit(s)**
- PSY 202Z - Introduction to Psychology II **4 Credit(s)**
- WR 227Z - Technical Writing **4 Credit(s)**

Term Credits: 15

Fall

Check in with Advisor

- CIS 125DB - Advanced Applications - Access **3 Credit(s)**
- COMM 111Z - Public Speaking **4 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)** or approved Humanities transfer course (credits vary)

Term Credits: 15

Winter

- BA 206 - Management Fundamentals **3 Credit(s)**
- BI 102 - Introduction to Biology II **3 Credit(s)** winter term only
- BI 102L - Introduction to Biology II Lab **1 Credit(s)**
- COMM 225 - Small Group Communication **4 Credit(s)**
- CS 133C - Programming Using C Sharp **4 Credit(s)** winter term only

Term Credits: 15

Spring

- CIS 279 - Network Operating Systems **4 Credit(s)**
- CS 275 - Data Base Development I **4 Credit(s)** spring term only
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)** or approved Humanities transfer course (credits vary)

Term Credits: 16

Approved Transferable Electives

Complete a sufficient number of college-level (numbered 100 and above) courses to meet the total degree requirement of at least 90 credits.

Humanities Electives

Complete at least two courses from the following list, 6-8 credits. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.

Oregon Tech Humanities Electives

- ART 115 - Basic Design - Composition **3 Credit(s) ***
- ART 116 - Basic Design - Color Theory **3 Credit(s) ***
- ART 131 - Introduction to Drawing - Value **3 Credit(s) ***
- ART 132 - Introduction to Drawing - Line **3 Credit(s) ***
- ART 133 - Intro to Drawing - Mixed Media **3 Credit(s) ***
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- ART 234 - Figure Drawing I **3 Credit(s) ***
- ART 235 - Figure Drawing II **3 Credit(s) ***
- ART 236 - Figure Drawing III **3 Credit(s) ***
- ART 237 - Illustration Black and White Media **3 Credit(s) ***
- ART 238 - Illustration - Color Media **3 Credit(s) ***
- ART 239 - Illustration - Perspective **3 Credit(s) ***
- ART 281 - Painting I **3 Credit(s) ***
- ART 282 - Painting II **3 Credit(s) ***
- ART 283 - Painting III **3 Credit(s) ***
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**

- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- MUS 101 - Music Fundamentals **3 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 111 - Music Theory I **3 Credit(s)**
- MUS 112 - Music Theory II **3 Credit(s)**
- MUS 113 - Music Theory III **3 Credit(s)**
- MUS 114 - Aural Skills I **1 Credit(s)**
- MUS 115 - Aural Skills II **1 Credit(s)**
- MUS 116 - Aural Skills III **1 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)**

- MUS 208 - Film Music **3 Credit(s)**
- MUS 211 - Music Theory IV **3 Credit(s)**
- MUS 212 - Music Theory V **3 Credit(s)**
- MUS 213 - Music Theory VI **3 Credit(s)**
- MUS 224 - Aural Skills IV **1 Credit(s)**
- MUS 225 - Aural Skills V **1 Credit(s)**
- MUS 226 - Aural Skills VI **1 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- PHL 103 - Critical Reasoning **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**

For more information, contact the Computer Science Department:

Phone: 541-956-7500

Email: ComputerScienceInfo@roguecc.edu

Web address: www.roguecc.edu/computerscience

TTY: Oregon Telecom Relay Service, 711

Healthcare Administration Transfer to SOU

Associate of Science

About the Program

The Associate of Science degree is based on a signed articulation agreement with Southern Oregon University (SOU). It has been developed in close cooperation with the Healthcare Administration faculty at SOU. The SOU departments of psychology, sociology/anthropology, communications, and business offer an interdisciplinary bachelor's degree program providing a foundation in healthcare systems, terminology, ethics and safety, data management and basic statistics, plus the communication and cultural competency skills necessary to succeed in today's healthcare environment. RCC's Associate of Science (AS) degree is articulated with SOU's Healthcare Administration program.

Students should contact the SOU Healthcare Administration program early in the first year of the AS program to be advised about additional requirements and procedures for admission to the school or program.

Students should be aware that if they transfer before completing this degree, courses will be evaluated individually toward the general education requirements in effect at SOU.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Healthcare Administration Transfer to Southern Oregon University are:

Develop a comprehensive understanding of fundamental accounting concepts.

Use Structured Query Language (SQL) to create database structures and manipulate data.

Utilize complex formulas and demonstrate advanced statistical analysis using Excel functions.

Demonstrate active listening, reflecting, and rephrasing skills when communicating with patients, community partners and medical personnel.

Demonstrate cultural competence and sensitivity to diversity in healthcare delivery, recognizing and addressing the unique needs and preferences of diverse patient populations.

Entry Requirements

Students must complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Prospective students should be aware of requirements of healthcare organizations prior to considering healthcare administration as a career choice, for example criminal history background checks or drug screenings. These requirements may vary by organization and geographic region; the inability to pass such requirements may preclude employment in certain organizations.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the department coordinator's approval. To ensure that coursework is current, program courses over seven years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with an advisor to determine placement.

Graduation Requirements

For admission to the SOU Healthcare Administration program, students must successfully complete all credits in this program with a grade of "C-" or better. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to Southern Oregon University. Please meet with an advisor for any questions about alternate classes in any given term. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Total Program Credits 91-92

Program email address: AlliedHealthInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 65 - Fundamentals of Algebra II **4 Credit(s)** or designated placement, check in with advisor
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits 0-8

Fall

- BA 101Z - Introduction to Business **4 Credit(s)**
- CHEM 104 - Introductory Chemistry **4 Credit(s)**
- CHEM 104L - Introductory Chemistry Lab **1 Credit(s)**
- HC 100 - Community Health Worker **6 Credit(s)**

Term Credits: 15

Winter

- BA 131 - Introduction to Business Computing **4 Credit(s)**
- BA 206 - Management Fundamentals **3 Credit(s)**
- SPAN 101 - First Year Spanish I **4 Credit(s)** or approved program elective; path-dependent - check in with advisor
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 15

Spring

- AH 202 - Healthcare Infection Control **1 Credit(s)**
- ART 120 - Introduction to Digital Art **3 Credit(s)**
- STAT 243Z - Elementary Statistics I **4 Credit(s)**
- STAT 243Q - Corequisite Support for STAT243Z **1 Credit(s)** (for students who have not completed MTH 95 or MTH 96)
- WR 122Z - Composition II **4 Credit(s)**

Term Credits:12-13

Fall

- BA 169Z - Data Analysis Using Microsoft Excel **4 Credit(s)**
- BA 211Z - Principles of Financial Accounting **4 Credit(s)** ¹
- BI 221Z - Principles of Biology - Cells **5 Credit(s)** or approved program elective; path-dependent - check in with advisor
- HE 261 - CPR - Basic Life Support Provider **1 Credit(s)** or approved program elective; path-dependent - check in with advisor
- PSY 101 - Psychology of Human Relations **3 Credit(s)**

Term Credits: 17

Winter

- AH 100 - Medical Terminology - Introduction **3 Credit(s)**
- BA 213Z - Principles of Managerial Accounting **4 Credit(s)**
- BI 222Z - Principles of Biology - Organisms **5 Credit(s)** or approved program elective; path-dependent - check in with advisor
- CIS 125DB - Advanced Applications - Access **3 Credit(s)**

- HS 152 - Stress Management **1 Credit(s)** or approved program elective; path-dependent
- check in with advisor

Term Credits: 16

Spring

- SOC 213 - Race and Ethnicity in the US **4 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- CS 275 - Data Base Development I **4 Credit(s)**
- COMM 218Z - Interpersonal Communication **4 Credit(s)**

Term Credits: 16

Advising reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Program Electives

See footnote 2

Complete 14-15 credits from the following list to meet the minimum degree requirement of at least 90 credits.

- AH 110 - Medical Terminology - Clinical **3 Credit(s)**
- BA 224 - Human Resource Management **3 Credit(s)**
- BT 111 - Conflict Management **2 Credit(s)**
- BI 100SB - Biology of Human Body Systems **3 Credit(s)**
- BI 121 - Elem Anatomy - Physiology I **3 Credit(s)**
- BI 121L - Elem Anatomy - Physiology I Lab **1 Credit(s)**
- BI 122 - Intro Anatomy - Physiology II **3 Credit(s)**
- BI 122L - Intro Anatomy - Physiology II Lab **1 Credit(s)**
- BI 221Z - Principles of Biology - Cells **5 Credit(s)**
- BI 222Z - Principles of Biology - Organisms **5 Credit(s)**
- COMM 115 - Intercultural Communication **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- ES 105 - Introduction to Emergency Services **4 Credit(s)**
- HE 261 - CPR - Basic Life Support Provider **1 Credit(s)**

- HE 208 - HIV and Infectious Diseases **1 Credit(s)**
- HS 144 - Introduction to Assertiveness **1 Credit(s)**
- HS 152 - Stress Management **1 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- SOC 204Z - Introduction to Sociology **4 Credit(s)**
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- SPAN 101 - First Year Spanish I **4 Credit(s)** or any other language course
- SPAN 102 - First Year Spanish II **4 Credit(s)** or any other language course

Notes:

¹ Students who completed BA 211Z between summer 2017 and winter 2021 but not BA 212, will require BA 212 to meet the new BA 211Z requirement. Please speak with your academic advisor.

² Some Approved Program Electives may require additional pre-requisites. Please consult with an Advisor.

For more information, contact the Allied Health Department:

Phone: 541-956-7446

Email: alliedhealth@roguecc.edu

Web address: www.roguecc.edu/AlliedHealth

TTY: Oregon Telecom Relay Service, 711

Outdoor Adventure Leadership Transfer to SOU

Associate of Science

About the Program

The Associate of Science (AS) degree is based on a signed articulation agreement with Southern Oregon University (SOU). The program is designed for students transferring to SOU's bachelor's degree program in outdoor adventure leadership. Students must work closely with advisors in their areas of interest to ensure electives are appropriate.

The curriculum allows for 38-47 core credits within the major area. By completing all appropriate credits (including electives), students will fulfill required lower division coursework for transfer to SOU. Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the transfer requirements of the college of their choice.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Outdoor Adventure Leadership Transfer to Southern Oregon University degree are:

Describe the connections between leading health problems in the U.S. and exercise as medicine.

Demonstrate responsible wilderness ethics as defined by current industry trends.

Demonstrate excellence in technical skills with competence in safety and industry standards.

Demonstrate expertise in logistics and expedition planning.

Facilitate a quality program through the use of effective communication, appropriate relationships, and compassionate leadership.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C-" or better. Certain required courses are also graded on a pass/no

pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult with an advisor regularly as you complete your transfer degree.

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Total Program Credits: 90-94

Program email address: HPERInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- WR 115 - Introduction to Expository Writing **3 Credit(s)** or higher-level composition
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement
- MTH 96 - Applied Algebra II **4 Credit(s)** or MTH 95 or higher-level math
- CIS 120 - Concepts in Computing I **2 Credit(s)** ¹Required for graduation.

Prerequisite Credits: 0-10

Fall

Check in with Advisor

- HE 131 - Intro to Exercise and Sport Science **3 Credit(s)** fall term only
- WR 121Z - Composition I **4 Credit(s)**
- HE 253 - Wilderness First Aid **3 Credit(s)** fall term RWC only
- G 101 - Intro to Geology I **3 Credit(s)** or approved Lab Science course (credits vary)
- G 101L - Intro to Geology I Lab **1 Credit(s)** or approved Lab Science course (credits vary)
- PE 185KC - Kayaking the Sea Coast Adventure **1 Credit(s)** or PE 185SA or approved Water PE185 course F/W/Sp

Term Credits: 15

Winter

- HE 259 - Athletic Injury Care and Prevention **3 Credit(s)** winter term only (rotated between RWC and RVC)
- WR 122Z - Composition II **4 Credit(s)**

- STAT 243Z - Elementary Statistics I **4 Credit(s)** and STAT 243Q for students who have not completed MTH 95 or MTH 96
- PE 185WS - Winter Survival - Camping Adventure **1 Credit(s)** or PE 185SB or approved Land PE185 course F/W/Sp
- G 102 - Intro to Geology II Surface Process **3 Credit(s)** or approved Lab Science course (credits vary)
- G 102L - Intro to Geology II Lab **1 Credit(s)** or approved Lab Science course (credits vary)

Term Credits: 16-17

Spring

- HPE 295 - Health and Fitness for Life **3 Credit(s)**
- COMM 225 - Small Group Communication **4 Credit(s)** or COMM 111Z or COMM 218Z
- REL 201 - World Religions **4 Credit(s)** or REL 243 or approved Humanities transfer course
- PE 185RR - Rafting the River **1 Credit(s)** or approved Water PE185 course F/W/Sp
- ENV 111 - Intro to Environmental Science **3 Credit(s)** or GEOG 110 or GEOG 120 if not taken as a Social Science course

Term Credits: 15

Fall

Check in with Advisor

- NFM 225 - Nutrition **4 Credit(s)**
- OAL 150 - Outdoor Living Skills **2 Credit(s)** fall term RWC only
- PHL 101 - Philosophical Problems **4 Credit(s)** or ENG 275 or MUS 105 or approved Humanities course (credits vary)
- SPAN 101 - First Year Spanish I **4 Credit(s)** or program elective course applied toward total of 6-16
- PE 185SA - Surfing Adventure **1 Credit(s)** or approved Water PE185 course F/W/Sp

Term Credits: 15

Winter

- OAL 250 - Outdoor Adventure and Leadership **3 Credit(s)** winter term RWC only
- PHL 102 - Ethics **4 Credit(s)** or HUM 101 or ENG 107 or approved Humanities course (credits vary)

- SOC 228 - Environment and Society **4 Credit(s)** or approved Social Science course (credits vary)
- PE 185MA - Mountaineering Adventure **1 Credit(s)** or PE 185SB or approved Land PE185 course F/W/Sp
- SPAN 102 - First Year Spanish II **4 Credit(s)** or program elective course applied toward total of 6-16

Term Credits: 16

Spring

- BI 100SB - Biology of Human Body Systems **3 Credit(s)** or approved Science Lab course (credits vary)
- PE 185RB - Rock Climbing Beginning **1 Credit(s)** or PE 185BP or approved Land PE185 course F/W/Sp
- SPAN 103 - First Year Spanish III **4 Credit(s)** or program elective course applied toward total of 6-16
- OAL 223 - Wilderness Navigation **2 Credit(s)** spring term RWC only
- SOC 230 - Aging and Society **4 Credit(s)** or approved Social Science course (credits vary)

Term Credits: 14

Land

Choose a minimum of three classes from the following list.

- PE 185MB - Mountain Biking **1 Credit(s)**
- PE 185BP - Backpacking Adventure **1 Credit(s)**
- PE 185RD - Road Cycling **1 Credit(s)**
- PE 185HA - Hiking Oregon Adventure **1 Credit(s)**
- PE 185MA - Mountaineering Adventure **1 Credit(s)**
- PE 185RA - Rock Climbing Adventure **1 Credit(s)**
- PE 185RB - Rock Climbing Beginning **1 Credit(s)**
- PE 185SB - Snow Skiing - Snowboarding **1 Credit(s)**
- PE 185WS - Winter Survival - Camping Adventure **1 Credit(s)**
- PE 185ZL - Zip Line Guide Technical Skills **1 Credit(s)**

Water

Choose a minimum of three classes from the following list.

- OAL 224 - San Juan Island Kayaking and Hiking **3 Credit(s)**
- PE 185RR - Rafting the River **1 Credit(s)**
- PE 185SA - Surfing Adventure **1 Credit(s)**
- PE 185KC - Kayaking the Sea Coast Adventure **1 Credit(s)**
- PE 185KW - Kayaking Whitewater **1 Credit(s)**
- PE 291 - Red Cross Lifeguard Training **2 Credit(s)**

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Humanities Electives

Complete at least three courses from the following list, 9-12 credits.

- ART 131 - Introduction to Drawing - Value **3 Credit(s)**
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- COMM 201 - Media and Society **4 Credit(s)**
- COMM 115 - Intercultural Communication **4 Credit(s)**
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**

- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 257 - African American Literature **4 Credit(s)**
- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**

- SPAN 203 - Second Year Spanish III **4 Credit(s)**
- TA 141 - Fundamentals of Acting I **4 Credit(s)**
- WR 241 - Imaginative Writing I **4 Credit(s)**
- WR 242 - Imaginative Writing II **4 Credit(s)**
- WR 243 - Imaginative Writing III **4 Credit(s)**

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Social Science Electives

Complete at least two courses from the following list, 6-8 credits.

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)**
- ANTH 150 - Introduction to Archaeology **4 Credit(s)**
- BA 101Z - Introduction to Business **4 Credit(s)**
- IS 110 - Intro to International Studies **4 Credit(s)**
- COMM 237 - Communication and Gender **4 Credit(s)**
- ECON 115 - Introduction to Economics **3 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- GEOG 110 - Introduction to Human Geography **4 Credit(s)**
- GEOG 120 - World Regional Geography **4 Credit(s)**
- HST 104 - World Civ Prehistory - Middle Ages **4 Credit(s)**
- HST 105 - World Civ Byzantium - Present **4 Credit(s)**
- HST 201 - US History through Reconstruction **4 Credit(s)**
- HST 202 - US HST Post Reconstruction-Present **4 Credit(s)**
- PS 201 - US Gov Institutions and Policy **4 Credit(s)**
- PS 202 - US Gov Ideologies and Engagement **4 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**
- PSY 119 - Psychology of Personal Growth **4 Credit(s)**
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**
- PSY 202Z - Introduction to Psychology II **4 Credit(s)**

- PSY 215 - Lifespan Human Development **4 Credit(s)**
- PSY 219 - Introduction to Abnormal Psychology **4 Credit(s)**
- PSY 231 - Human Sexuality **3 Credit(s)**
- SOC 204Z - Introduction to Sociology **4 Credit(s)**
- SOC 205Z - Social Change and Institutions **4 Credit(s)**
- SOC 206Z - Social Problems **4 Credit(s)**
- SOC 211 - Social Deviance and Social Control **3 Credit(s)**
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)**
- SOC 218 - Sociology of Gender **4 Credit(s)**
- SOC 228 - Environment and Society **4 Credit(s)**
- SOC 230 - Aging and Society **4 Credit(s)**
- SOC 235 - Chicano-a and Latino-a US History **4 Credit(s)** or HST 259
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- SOC 244 - Introduction to Criminology **4 Credit(s)**

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Science and Lab Science Electives

Complete at least three courses, two of which must have labs, from the following list, 11-13 credits.

Note that only one course can be a regional field studies course indicated by asterisk.

For list of SOU's General Education Capacities please go to their website.

- BI 100SB - Biology of Human Body Systems **3 Credit(s)** (non-lab course)
- BI 101 - Introduction to Biology I **3 Credit(s)** and BI 101L
- BI 102 - Introduction to Biology II **3 Credit(s)** and BI 102L
- BI 103 - Introduction to Biology III **3 Credit(s)** and BI 103L
- BI 121 - Elem Anatomy - Physiology I **3 Credit(s)** and BI 121L
- BI 122 - Intro Anatomy - Physiology II **3 Credit(s)** and BI 122L
- BI 221Z - Principles of Biology - Cells **5 Credit(s)**
- BI 222Z - Principles of Biology - Organisms **5 Credit(s)**

- BI 223Z - Principles of Bio - Ecology and Evo **5 Credit(s)**
- BI 231 - Anatomy and Physiology I **3 Credit(s)** and BI 231L
- BI 232 - Anatomy and Physiology II **3 Credit(s)** and BI 232L
- BI 233 - Anatomy and Physiology III **3 Credit(s)** and BI 233L
- BI 234 - Microbiology **3 Credit(s)** and BI 234L
- CHEM 104 - Introductory Chemistry **4 Credit(s)** and CHEM 104L
- CHEM 105 - Introductory Organic Chemistry **3 Credit(s)** and CHEM 105L
- CHEM 106 - Introductory Biochemistry **3 Credit(s)** and CHEM 106L
- CHEM 221Z - General Chemistry I **4 Credit(s)** and CHEM 227Z
- CHEM 222Z - General Chemistry II **4 Credit(s)** and CHEM 228Z
- CHEM 223Z - General Chemistry III **4 Credit(s)** and CHEM 229Z
- CIS 195 - Web Authoring I **4 Credit(s)** (non-lab course)
- ENV 111 - Intro to Environmental Science **3 Credit(s)** (non-lab course)
- G 100 - Fundamentals of Geology **3 Credit(s)** (non-lab course)
- G 101 - Intro to Geology I **3 Credit(s)** and G 101L
- G 102 - Intro to Geology II Surface Process **3 Credit(s)** and G 102L
- G 103 - Intro to Geology III Historical **3 Credit(s)** and G 103L
- GEOG 100 - Introduction to Physical Geography **3 Credit(s)** (non-lab course)
- GS 104 - Physical Science - Physics **3 Credit(s)** and GS 104L
- GS 107 - Physical Science - Astronomy **3 Credit(s)** and GS 107L
- GS 108 - Physical Science - Oceanography **3 Credit(s)** and GS 108L
- GS 170 - Regional Field Studies **3 Credit(s)** and GS 170L *
- PH 201 - General Physics I **4 Credit(s)** and PH 201L
- PH 202 - General Physics II **4 Credit(s)** and PH 202L
- PH 203 - General Physics III **4 Credit(s)** and PH 203L
- PH 211 - General Physics - Calculus I **4 Credit(s)** and PH 211L
- PH 212 - General Physics - Calculus II **4 Credit(s)** and PH 212L
- PH 213 - General Physics - Calculus III **4 Credit(s)** and PH 213L

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Program Electives

Complete 6-16 credits from the following list, as needed to meet the total degree requirements of at least 90 credits.

- HE 199 - Special Studies - Health Issues **Var. (1-3) Credit(s)**
- HE 208 - HIV and Infectious Diseases **1 Credit(s)**
- HE 250 - Personal Health **3 Credit(s)**
- HE 252 - First Aid - CPR **3 Credit(s)**
- PE 184 - Adaptive Physical Education **1 Credit(s)**
- PE 185 - Any physical education course not required within core requirements **variable Credit(s)**
- PE 199 - Special Studies - PE **Var. (1-3) Credit(s)**
- PE 280 - CWE - Physical Education **Var. (1-12) Credit(s)**
- Any lower division transfer course not already required **variable Credit(s)**

Notes:

¹ Approved Computer Information Science or Computer Science class, CIS 120 / CS120 or above, or documented computer proficiency within the past ten years.

For more information, contact the HPER Department:

Phone: 541-956-7500

Email: HPERInfo@roquecc.edu

Web address: www.roquecc.edu/HPER

TTY: Oregon Telecom Relay Service, 711

Associate of Arts Oregon Transfer - Outdoor Adventure Leadership Interest

About the Program

The Associate of Arts Oregon Transfer degree is a two-year program designed for students who intend to transfer to an Oregon university. Completion of the degree will satisfy lower division general education requirements and ensures junior standing at a university for registration purposes. Additionally, with careful planning, students may satisfy many of the lower division courses required in their academic majors.

Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the general education requirements of the school of their choice. Students are encouraged to work closely with their academic advisors to maximize the benefits of this degree.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to fulfill AAOT degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Discipline studies-approved coursework in humanities, social science, and science/math/computer science transferred from another Oregon community college will be accepted if students have a declared AAOT major at RCC and received a "C-" or better grade in the course(s). College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

Students must complete a minimum of 90 college-level credits with a minimum grade of "C-" or better, including at least one course designated as meeting cultural literacy criteria. Students must also have a 2.0 cumulative GPA at the time the AAOT is awarded.

The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AAOT framework. See the AAOT program map for full degree requirements. It is recommended that students also consult with the transfer college of choice regarding specific prerequisites since requirements for an outdoor adventure leadership major vary at each university.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate

classes in any given term. When transferring to a public four-year Oregon university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language, or
2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. If students intend to complete a Bachelor of Arts (B.A.) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Completing the first year of the college language sequence in terms 3-6 at RCC sets students up for the second-year sequence when they transfer. Students should inquire with their intended receiving institution for world language requirements.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor for any questions in preparing to complete your transfer degree.

Total Program Credits: 90

Program email address: HPERInfo@roguecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 95 - Intermediate Algebra **4 Credit(s)** or MTH 96 or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Term 1

Check in with Advisor

- G 101 - Intro to Geology I **3 Credit(s)** or approved AAOT Science Lab transfer course (credits vary)
- G 101L - Intro to Geology I Lab **1 Credit(s)** or approved AAOT Science Lab transfer course (credits vary)
- HE 131 - Intro to Exercise and Sport Science **3 Credit(s)**
- HE 253 - Wilderness First Aid **3 Credit(s)**
- PE 185KC - Kayaking the Sea Coast Adventure **1 Credit(s)** or PE 185SA
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 15

Term 2

- G 102 - Intro to Geology II Surface Process **3 Credit(s)** or approved AAOT Science Lab transfer course (credits vary)
- G 102L - Intro to Geology II Lab **1 Credit(s)** or approved AAOT Science Lab transfer course (credits vary)
- HPE 295 - Health and Fitness for Life **3 Credit(s)**
- PE 185WS - Winter Survival - Camping Adventure **1 Credit(s)** or PE 185MA
- STAT 243Z - Elementary Statistics I **4 Credit(s)** and STAT 243Q for non-STEM students who have not taken MTH 95 or MTH 96
- WR 122Z - Composition II **4 Credit(s)** or WR 227Z

Term credits: 16

Term 3

- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 218Z or COMM 115 ¹
- HE 259 - Athletic Injury Care and Prevention **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)** ¹ or ENG 275 or approved AAOT Humanities transfer course
- PE 185BP - Backpacking Adventure **1 Credit(s)** or PE 185RR
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)** or approved AAOT Social Science course

Term Credits: 15

Term 4

Check in with Advisor

- NFM 225 - Nutrition **4 Credit(s)** or approved AAOT Science transfer course (credits vary)
- OAL 150 - Outdoor Living Skills **2 Credit(s)**
- PE 185SA - Surfing Adventure **1 Credit(s)** or PE 185KC
- PHL 101 - Philosophical Problems **4 Credit(s)** or MUS 210 ¹ or approved AAOT Humanities transfer course
- SPAN 101 - First Year Spanish I **4 Credit(s)** or SPAN 201 ¹

Term Credits: 15

Term 5

- OAL 250 - Outdoor Adventure and Leadership **3 Credit(s)**
- PE 185MA - Mountaineering Adventure **1 Credit(s)** or PE 185WS
- PHL 102 - Ethics **4 Credit(s)** or ENG 260 ¹ approved AAOT Humanities course
- SOC 228 - Environment and Society **4 Credit(s)** or SOC 204Z ¹ approved AAOT Social Science course
- SPAN 102 - First Year Spanish II **4 Credit(s)** or SPAN 202 ¹

Term Credits: 16

Term 6

- BI 221Z - Principles of Biology - Cells **5 Credit(s)** or approved AAOT Science lab transfer course (credits vary)
- OAL 223 - Wilderness Navigation **2 Credit(s)** as needed to meet minimum program requirements of 90 credits
- PE 185RA - Rock Climbing Adventure **1 Credit(s)** or PE 185BP, PE 185ZL, PE 185RR as needed to meet minimum program requirements of 90 credits
- PSY 215 - Lifespan Human Development **4 Credit(s)** or approved AAOT Social Science course
- SOC 230 - Aging and Society **4 Credit(s)** or approved AAOT Social Science course

Term Credits: 16

Notes:

¹ Meets cultural literacy criteria (one course required).

General AAOT Requirements:

- Three courses required in the Humanities category from at least two disciplines (at least 2 prefixes).
- Four courses required in Social Science category, from at least two disciplines (at least 2 prefixes).
- Four courses required in Science/Math/Computer Science from two disciplines. Three must be lab science courses.
- Students who took writing classes of 3 credits each must have WR121, WR122 and either WR123 or WR227. Students taking classes of 4 credits each must take WR 121Z and either WR 122Z or WR 227Z.
- Fitness/Health/Physical Education (minimum of one or more courses totaling at least 3 credits).
- General elective(s) as needed to meet minimum program total requirement of 90 credits.

For more information, contact the HPER Department:

Phone: 541-956-7500

Email: HPERInfo@roquecc.edu

Web address: www.roquecc.edu/HPER

TTY: Oregon Telecom Relay Service, 711

Science, Technology, Engineering, Math Pathway

Associate of General Studies - Architecture Interest

About the Program

The Associate of General Studies degree is a two-year program designed to provide students the opportunity to acquire a broad education rather than pursuing a specific college major or program. The general studies degree may, in addition to general education coursework, include lower-division college transfer and career and technical education courses. Because of the flexibility of this degree, it may not fulfill requirements for transfer to a four-year institution.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to apply toward degree requirements. All courses listed meet those identified outcomes. For more information see this catalog.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Individual courses may be challenged based on the student's life experience or knowledge. Arrangements may be made on an individual basis with the instructor teaching the course to determine specific challenge procedures. College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

The Associate of General Studies degree will be awarded to students who complete a minimum of 90 credit hours of college transfer and career and technical courses from the curriculum listed. Students must receive a grade of "C-" or better in all coursework. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned a "C-" or better grade.

The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AGS framework. See the AGS program map for full degree requirements. It is recommended that students also consult with the transfer college of

choice regarding specific prerequisites since requirements for a geology major vary at each university.

The 100 series of Geology does not count toward a bachelor's in Geology and so is not included here.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate classes in any given term. When transferring to a public four-year Oregon college or university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language, or
2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. Additionally, if students intend to complete a Bachelor of Arts (BA) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Students should inquire with their intended receiving institution for world language requirements.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation.

Total Program Credits: 90

Program email address: ScienceInfo@roguecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 95 - Intermediate Algebra **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Fall

Check in with Advisor

- ART 131 - Introduction to Drawing - Value **3 Credit(s)**
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)** ¹
- MTH 111Z - Precalculus I - Functions **4 Credit(s)** or higher-level math
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 15

Winter

- ART 132 - Introduction to Drawing - Line **3 Credit(s)** ¹
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 115 or COMM 218Z
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)**

Term Credits: 15

Spring

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)** or any Social Science course
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)** ¹
- HPE 295 - Health and Fitness for Life **3 Credit(s)** or any Fitness/Health/PE course
- PE 185WL - Walking for a Healthy Lifestyle **1 Credit(s)** or any College-level course
- PE 185YO - Yoga **1 Credit(s)** or any College-level course

Term Credits: 13

Fall

Check in with Advisor

- PH 201 - General Physics I **4 Credit(s)** fall term only
- PH 201L - General Physics I Lab **1 Credit(s)** fall term only
- ART 276 - Sculpture I **3 Credit(s)** ¹
- ART 294 - Watercolor I **3 Credit(s)**
- WR 227Z - Technical Writing **4 Credit(s)**

Term Credits: 15

Winter

- PH 202 - General Physics II **4 Credit(s)** winter term only
- PH 202L - General Physics II Lab **1 Credit(s)** winter term only
- DDM 160 - Digital Imaging - Photoshop **3 Credit(s)** winter term only
- ART 281 - Painting I **3 Credit(s)**
- ART 257 - Jewelry and Metalsmithing I **3 Credit(s)**

Term Credits: 14

Spring

- PH 203 - General Physics III **4 Credit(s)** spring term only
- PH 203L - General Physics III Lab **1 Credit(s)** spring term only
- HST 105 - World Civ Byzantium - Present **4 Credit(s)** or any Social Science course
- ART 234 - Figure Drawing I **3 Credit(s)**
- ART 253 - Ceramics I **3 Credit(s)**
- DDM 125 - Digital Photography **3 Credit(s)**

Term Credits: 18

University-recommended and other courses

- ART 132 - Introduction to Drawing - Line **3 Credit(s)**
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)** ¹
- ART 205 - Renaissance to Baroque Art **4 Credit(s)** ¹
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)** ¹
- ART 276 - Sculpture I **3 Credit(s)** ¹
- DDM 160 - Digital Imaging - Photoshop **3 Credit(s)** ¹
- MTH 111Z - Precalculus I - Functions **4 Credit(s)**
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)**
- PH 201 - General Physics I **4 Credit(s)** ¹ and PH 201L
- PH 202 - General Physics II **4 Credit(s)** ¹ and PH 202L
- PH 203 - General Physics III **4 Credit(s)** ¹ and PH 203L
- WR 122Z - Composition II **4 Credit(s)**

Notes:

¹ University-recommended courses. Check with the specific transfer institution for more details.

For approved Humanities, Social Science and Science, see Associate of General Studies program map for Approved Electives

For more information, contact the Science Department:

Phone: 541-956-7500

Email: ScienceInfo@roquecc.edu

Web address: www.roquecc.edu/science

TTY: Oregon Telecom Relay Service, 711

Associate of General Studies - Biology Interest

About the Program

The Associate of General Studies degree is a two-year program designed to provide students the opportunity to acquire a broad education rather than pursuing a specific college major or program. The general studies degree may, in addition to general education coursework, include lower-division college transfer and career and technical education courses. Because of the flexibility of this degree, it may not fulfill requirements for transfer to a four-year institution.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to apply toward degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Individual courses may be challenged based on the student's life experience or knowledge. Arrangements may be made on an individual basis with the instructor teaching the course to determine specific challenge procedures. College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

The Associate of General Studies degree will be awarded to students who complete a minimum of 90 credit hours of college transfer and career and technical courses from the curriculum listed. Students must receive a grade of "C-" or better in all coursework. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned a "C-" or better grade.

The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AGS framework. See the AGS program map for full degree requirements. It is recommended that students also consult with the transfer college of choice regarding specific prerequisites since requirements for a biology major vary at each university.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate classes in any given term. When transferring to a public four-year Oregon college or university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language, or

2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. Additionally, if students intend to complete a Bachelor of Arts (BA) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Students should inquire with their intended receiving institution for world language requirements.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. At least one four-credit elective course needs to be taken to achieve the minimum 90 credits required to graduate.

Total Program Credits: 90

Program email address: ScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- BT 168 - Advanced Applications - Word **3 Credit(s)**
- CIS 120 - Concepts in Computing I **2 Credit(s)**
- MTH 111Z - Precalculus I - Functions **4 Credit(s)** or designated placement
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-17

Fall

Check in with Advisor

- BI 221Z - Principles of Biology - Cells **5 Credit(s)** fall term only
- HE 252 - First Aid - CPR **3 Credit(s)**
- MTH 251Z - Differential Calculus **4 Credit(s)** fall at RWC; fall/winter at RVC
- PE 185TC - Tai Chi **1 Credit(s)** or PE 185SS or any Fitness/Health/PE course

Term Credits: 13

Winter

- BI 222Z - Principles of Biology - Organisms **5 Credit(s)** winter term only
- HS 152 - Stress Management **1 Credit(s)** winter term only

- MTH 252Z - Integral Calculus **4 Credit(s)** winter at RWC; winter/spring at RVC
- PE 185WL - Walking for a Healthy Lifestyle **1 Credit(s)** or any College-level course
- PE 185YO - Yoga **1 Credit(s)** or any College-level course

Term Credits: 12

Spring

- BI 223Z - Principles of Bio - Ecology and Evo **5 Credit(s)** spring term only
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 13

Summer

- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 115 or COMM 218Z
- PE 185RR - Rafting the River **1 Credit(s)** or any Fitness/Health/PE course
- WR 227Z - Technical Writing **4 Credit(s)** Strongly recommended.

Term Credits: 9

Fall

Check in with Advisor

- CHEM 221Z - General Chemistry I **4 Credit(s)** fall term only
- CHEM 227Z - General Chemistry I Laboratory **1 Credit(s)** fall term only
- PH 201 - General Physics I **4 Credit(s)** fall term only
- PH 201L - General Physics I Lab **1 Credit(s)** fall term only
- PSY 201Z - Introduction to Psychology I **4 Credit(s)** or any Social Science course (credits vary)

Term Credits: 14

Winter

- CHEM 222Z - General Chemistry II **4 Credit(s)** winter term only
- CHEM 228Z - General Chemistry II Laboratory **1 Credit(s)** winter term only
- COMM 218Z - Interpersonal Communication **4 Credit(s)**

- PE 185WT - Weight Training - Conditioning **1 Credit(s)** or any Fitness/Health/PE course
- PH 202 - General Physics II **4 Credit(s)** winter term only
- PH 202L - General Physics II Lab **1 Credit(s)** or any Humanities course

Term Credits: 15

Spring

- CHEM 223Z - General Chemistry III **4 Credit(s)** spring term only
- CHEM 229Z - General Chemistry III Laboratory **1 Credit(s)** spring term only
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)** or any Social Science elective
- PH 203 - General Physics III **4 Credit(s)** spring term only
- PH 203L - General Physics III Lab **1 Credit(s)** spring term only

Term Credits: 14

Notes:

For approved Humanities, Social Science and Science, see Associate of General Studies program map for Approved Electives.

For more information, contact the Science Department:

Phone: 541-956-7500

Email: ScienceInfo@roguecc.edu

Web address: www.roguecc.edu/science

TTY: Oregon Telecom Relay Service, 711

Associate of General Studies - Chemistry Interest

About the Program

The Associate of General Studies degree is a two-year program designed to provide students the opportunity to acquire a broad education rather than pursuing a specific college major or program. The general studies degree may, in addition to general education coursework, include lower-division college transfer and career and technical education courses. Because of the flexibility of this degree, it may not fulfill requirements for transfer to a four-year institution.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to apply toward degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Individual courses may be challenged based on the student's life experience or knowledge. Arrangements may be made on an individual basis with the instructor teaching the course to determine specific challenge procedures. College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

The Associate of General Studies degree will be awarded to students who complete a minimum of 90 credit hours of college transfer and career and technical courses from the curriculum listed. Students must receive a grade of "C-" or better in all coursework. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned a "C-" or better grade.

The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AGS framework. See the AGS program map for full degree requirements. It is recommended that students also consult with the transfer college of choice regarding specific prerequisites since requirements for a chemistry major vary at each university.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate classes in any given term. When transferring to a public four-year Oregon college or university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language, or

2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. Additionally, if students intend to complete a Bachelor of Arts (BA) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Students should inquire with their intended receiving institution for world language requirements.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation.

Total Program Credits: 90

Program email address: ScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- BT 168 - Advanced Applications - Word **3 Credit(s)**
- CIS 120 - Concepts in Computing I **2 Credit(s)**
- MTH 111Z - Precalculus I - Functions **4 Credit(s)** or designated placement
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-17

Fall

Check in with Advisor

- CHEM 221Z - General Chemistry I **4 Credit(s)** fall term only
- CHEM 227Z - General Chemistry I Laboratory **1 Credit(s)** fall term only
- MTH 251Z - Differential Calculus **4 Credit(s)** fall at RWC; fall/winter at RVC
- PE 185YO - Yoga **1 Credit(s)** or any College-level course
- ECON 201Z - Principles of Microeconomics **4 Credit(s)** or any Social Science course

Term Credits: 14

Winter

- CHEM 222Z - General Chemistry II **4 Credit(s)** winter term only
- CHEM 228Z - General Chemistry II Laboratory **1 Credit(s)** winter term only

- MTH 252Z - Integral Calculus **4 Credit(s)** winter at RWC; winter/spring at RVC
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 13

Spring

- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
or any Humanities course
- CHEM 223Z - General Chemistry III **4 Credit(s)** spring term only
- CHEM 229Z - General Chemistry III Laboratory **1 Credit(s)** spring term only
- MTH 253Z - Calculus - Sequences and Series **4 Credit(s)** spring term only

Term Credits: 13

Summer

Check in with Advisor

- MTH 254 - Calculus IV - Vector Calculus **5 Credit(s)** summer term only
- MTH 256 - Differential Equations **5 Credit(s)** summer term only

Term Credits: 10

Fall

- PH 211 - General Physics - Calculus I **4 Credit(s)** fall term only
- PH 211L - General Physics - Calculus I Lab **1 Credit(s)** fall term only
- HE 252 - First Aid - CPR **3 Credit(s)** or any Fitness/Health/PE course
- WR 227Z - Technical Writing **4 Credit(s)** or any College-level course - talk to advisor

Term Credits: 12

Winter

- PH 212 - General Physics - Calculus II **4 Credit(s)** winter term only
- PH 212L - General Physics - Calculus II Lab **1 Credit(s)** winter term only
- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 115 or COMM 218Z
- PE 185CO - Core and Cardio **1 Credit(s)** or PE 185SB or any College-level course
- ENG 255 - American Lit - 20th Century **4 Credit(s)** or other Humanities course

Term Credits: 14

Spring

- PH 213 - General Physics - Calculus III **4 Credit(s)** spring term only
- PH 213L - General Physics - Calculus III Lab **1 Credit(s)** spring term only
- MTH 261 - Linear Algebra **5 Credit(s)** spring term only
- PSY 201Z - Introduction to Psychology I **4 Credit(s)** or any Social Science course

Term Credits: 14

Notes:

For approved Humanities, Social Science and Science, see Associate of General Studies program map for Approved Electives.

For more information, contact the Science Department:

Phone: 541-956-7500

Email: ScienceInfo@roguecc.edu

Web address: www.roguecc.edu/science

TTY: Oregon Telecom Relay Service, 711

Associate of General Studies - Geology Interest

About the Program

The Associate of General Studies degree is a two-year program designed to provide students the opportunity to acquire a broad education rather than pursuing a specific college major or program. The general studies degree may, in addition to general education coursework, include lower-division college transfer and career and technical education courses. Because of the flexibility of this degree, it may not fulfill requirements for transfer to a four-year institution.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to apply toward degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Individual courses may be challenged based on the student's life experience or knowledge. Arrangements may be made on an individual basis with the instructor teaching the course to determine specific challenge procedures. College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

The Associate of General Studies degree will be awarded to students who complete a minimum of 90 credit hours of college transfer and career and technical courses from the curriculum listed. Students must receive a grade of "C-" or better in all coursework. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned a "C-" or better grade.

The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AGS framework. See the AGS program map for full degree requirements. It is recommended that students also consult with the transfer college of choice regarding specific prerequisites since requirements for a geology major vary at each university.

The 100 series of Geology does not count toward a bachelor's in Geology and so is not included here.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate classes in any given term. When transferring to a public four-year Oregon college or university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language, or
2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. Additionally, if students intend to complete a Bachelor of Arts (BA) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Students should inquire with their intended receiving institution for world language requirements.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation.

Total Program Credits: 90

Program email address: ScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- BT 168 - Advanced Applications - Word **3 Credit(s)**
- CIS 120 - Concepts in Computing I **2 Credit(s)**
- MTH 111Z - Precalculus I - Functions **4 Credit(s)** or designated placement
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-17

Fall

Check in with Advisor

- CHEM 221Z - General Chemistry I **4 Credit(s)** fall term only
- CHEM 227Z - General Chemistry I Laboratory **1 Credit(s)** fall term only
- ECON 201Z - Principles of Microeconomics **4 Credit(s)** or ECON 202Z or any Social Science course
- MTH 251Z - Differential Calculus **4 Credit(s)** fall at RWC; fall/winter at RVC
- PE 185YO - Yoga **1 Credit(s)** or any College-level course

Term Credits: 14

Winter

- CHEM 222Z - General Chemistry II **4 Credit(s)** winter term only
- CHEM 228Z - General Chemistry II Laboratory **1 Credit(s)** winter term only
- MTH 252Z - Integral Calculus **4 Credit(s)** winter at RWC; winter/spring at RVC
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 13

Spring

- CHEM 223Z - General Chemistry III **4 Credit(s)** spring term only
- CHEM 229Z - General Chemistry III Laboratory **1 Credit(s)** spring term only
- ENG 255 - American Lit - 20th Century **4 Credit(s)** or other Humanities course
- MTH 253Z - Calculus - Sequences and Series **4 Credit(s)** spring term only

Term Credits: 13

Summer

Check in with Advisor

- MTH 254 - Calculus IV - Vector Calculus **5 Credit(s)** summer term only
- MTH 256 - Differential Equations **5 Credit(s)** summer term only

Term Credits: 10

Fall

- PH 211 - General Physics - Calculus I **4 Credit(s)** fall term only
- PH 211L - General Physics - Calculus I Lab **1 Credit(s)** fall term only
- HE 252 - First Aid - CPR **3 Credit(s)** or any Fitness/Health/PE course
- WR 227Z - Technical Writing **4 Credit(s)**

Term Credits: 12

Winter

- ART 205 - Renaissance to Baroque Art **4 Credit(s)** or any Humanities course
- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 115 or COMM 218Z
- PE 185WS - Winter Survival - Camping Adventure **1 Credit(s)** or PE 185YO or any College-level course

- PH 212 - General Physics - Calculus II **4 Credit(s)** winter term only
- PH 212L - General Physics - Calculus II Lab **1 Credit(s)** winter term only

Term Credits: 14

Spring

- ECON 202Z - Principles of Macroeconomics **4 Credit(s)** or ECON 201Z or any Social Science course
- MTH 261 - Linear Algebra **5 Credit(s)** spring term only
- PH 213 - General Physics - Calculus III **4 Credit(s)** spring term only
- PH 213L - General Physics - Calculus III Lab **1 Credit(s)** spring term only

Term Credits: 14

Notes:

For approved Humanities, Social Science and Science, see Associate of General Studies program map for Approved Electives.

For more information, contact the Science Department:

Phone: 541-956-7500

Email: ScienceInfo@roguecc.edu

Web address: www.roguecc.edu/science

TTY: Oregon Telecom Relay Service, 711

Associate of General Studies - Physics Interest

About the Program

The Associate of General Studies degree is a two-year program designed to provide students the opportunity to acquire a broad education rather than pursuing a specific college major or program. The general studies degree may, in addition to general education coursework, include lower-division college transfer and career and technical education courses. Because of the flexibility of this degree, it may not fulfill requirements for transfer to a four-year institution.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to apply toward degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Individual courses may be challenged based on the student's life experience or knowledge. Arrangements may be made on an individual basis with the instructor teaching the course to determine specific challenge procedures. College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

The Associate of General Studies degree will be awarded to students who complete a minimum of 90 credit hours of college transfer and career and technical courses from the curriculum listed. Students must receive a grade of "C-" or better in all coursework. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned a "C-" or better grade.

The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AGS framework. See the AGS program map for full degree requirements. It is recommended that students also consult with the transfer college of choice regarding specific prerequisites since requirements for a physics major vary at each university.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate classes in any given term. When transferring to a public four-year Oregon college or university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language, or

2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. Additionally, if students intend to complete a Bachelor of Arts (BA) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Students should inquire with their intended receiving institution for world language requirements.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation.

Total Program Credits: 90

Program email address: ScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- BT 168 - Advanced Applications - Word **3 Credit(s)**
- CIS 120 - Concepts in Computing I **2 Credit(s)**
- MTH 111Z - Precalculus I - Functions **4 Credit(s)** or designated placement
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-17

Fall

Check in with Advisor

- CHEM 221Z - General Chemistry I **4 Credit(s)** fall term only
- CHEM 227Z - General Chemistry I Laboratory **1 Credit(s)** fall term only
- ECON 201Z - Principles of Microeconomics **4 Credit(s)** or ECON 202Z or any Social Science course
- MTH 251Z - Differential Calculus **4 Credit(s)** fall at RWC; fall/winter at RVC
- PE 185YO - Yoga **1 Credit(s)** or any College-level course

Term Credits: 14

Winter

- CHEM 222Z - General Chemistry II **4 Credit(s)** winter term only

- CHEM 228Z - General Chemistry II Laboratory **1 Credit(s)** winter term only
- MTH 252Z - Integral Calculus **4 Credit(s)** winter at RWC; winter/spring at RVC
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 13

Spring

- ART 206 - 18th Century to Contemporary Art **4 Credit(s)** or any Humanities course
- CHEM 223Z - General Chemistry III **4 Credit(s)** spring term only
- CHEM 229Z - General Chemistry III Laboratory **1 Credit(s)** spring term only
- MTH 253Z - Calculus - Sequences and Series **4 Credit(s)** spring term only

Term Credits: 13

Summer

Check in with Advisor

- MTH 254 - Calculus IV - Vector Calculus **5 Credit(s)** summer term only
- MTH 256 - Differential Equations **5 Credit(s)** summer term only

Term Credits: 10

Fall

- PH 211 - General Physics - Calculus I **4 Credit(s)** fall term only
- PH 211L - General Physics - Calculus I Lab **1 Credit(s)** fall term only
- HE 252 - First Aid - CPR **3 Credit(s)** or any Fitness/Health/PE course
- WR 227Z - Technical Writing **4 Credit(s)**

Term Credits: 12

Winter

- PH 212 - General Physics - Calculus II **4 Credit(s)** winter term only
- PH 212L - General Physics - Calculus II Lab **1 Credit(s)** winter term only
- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 115, or COMM 218Z
- PE 185WS - Winter Survival - Camping Adventure **1 Credit(s)** or PE 185YO or any College-level course (1-4 credits as needed)

- ENG 255 - American Lit - 20th Century **4 Credit(s)** or other Humanities course

Term Credits: 14

Spring

- ECON 202Z - Principles of Macroeconomics **4 Credit(s)** or ECON 201Z or any Social Science course
- PH 213 - General Physics - Calculus III **4 Credit(s)** spring term only
- PH 213L - General Physics - Calculus III Lab **1 Credit(s)** spring term only
- MTH 261 - Linear Algebra **5 Credit(s)** spring term only

Term Credits: 14

Notes:

For approved Humanities, Social Science and Science, see Associate of General Studies program map for Approved Electives.

For more information, contact the Science Department:

Phone: 541-956-7500

Email: ScienceInfo@roguecc.edu

Web address: www.roguecc.edu/science

TTY: Oregon Telecom Relay Service, 711

Associate of General Studies - Pre-professional Medicine Interest

About the Program

The Associate of General Studies degree is a two-year program designed to provide students the opportunity to acquire a broad education rather than pursuing a specific college major or program. The general studies degree may, in addition to general education coursework, include lower-division college transfer and career and technical education courses. Because of the flexibility of this degree, it may not fulfill requirements for transfer to a four-year institution.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to apply toward degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Individual courses may be challenged based on the student's life experience or knowledge. Arrangements may be made on an individual basis with the instructor teaching the course to determine specific challenge procedures. College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

The Associate of General Studies degree will be awarded to students who complete a minimum of 90 credit hours of college transfer and career and technical courses from the curriculum listed. Students must receive a grade of "C-" or better in all coursework. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned a "C-" or better grade.

The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AGS framework. See the AGS program map for full degree requirements. It is recommended that students also consult with the transfer college of choice regarding specific prerequisites since requirements for a pre-professional medicine major vary at each university.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate classes in any given term. When transferring to a public four-year Oregon college or university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language, or
2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. Additionally, if students intend to complete a Bachelor of Arts (BA) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Students should inquire with their intended receiving institution for world language requirements.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation.

Total Program Credits: 90

Program email address: ScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- BT 168 - Advanced Applications - Word **3 Credit(s)**
- CIS 120 - Concepts in Computing I **2 Credit(s)**
- MTH 111Z - Precalculus I - Functions **4 Credit(s)** or designated placement
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)**

Prerequisite Credits: 0-17

Term 1

Check in with Advisor

- BI 221Z - Principles of Biology - Cells **5 Credit(s)** fall term only
- PE 185YO - Yoga **1 Credit(s)** or any College-level course
- PE 185CT - Circuit Training **1 Credit(s)** or any College-level course
- STAT 243Z - Elementary Statistics I **4 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 15

Term 2

- BI 222Z - Principles of Biology - Organisms **5 Credit(s)** winter term only

- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- HE 252 - First Aid - CPR **3 Credit(s)**
- MTH 251Z - Differential Calculus **4 Credit(s)** fall at RWC; fall/winter at RVC

Term Credits: 16

Term 3

- BI 223Z - Principles of Bio - Ecology and Evo **5 Credit(s)** spring term only
- MTH 252Z - Integral Calculus **4 Credit(s)** winter at RWC; winter/spring at RVC
- SOC 218 - Sociology of Gender **4 Credit(s)** or any Social Science course
- WR 227Z - Technical Writing **4 Credit(s)**

Term Credits: 17

Term 4

Check in with Advisor

- CHEM 221Z - General Chemistry I **4 Credit(s)** fall term only
- CHEM 227Z - General Chemistry I Laboratory **1 Credit(s)** fall term only
- MUS 208 - Film Music **3 Credit(s)** or any Humanities course
- PE 185WL - Walking for a Healthy Lifestyle **1 Credit(s)** or any College-level course
- PH 201 - General Physics I **4 Credit(s)**
- PH 201L - General Physics I Lab **1 Credit(s)**

Term Credits: 14

Term 5

- CHEM 222Z - General Chemistry II **4 Credit(s)** winter term only
- CHEM 228Z - General Chemistry II Laboratory **1 Credit(s)** winter term only
- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 115 or COMM 218Z
- PH 202 - General Physics II **4 Credit(s)**
- PH 202L - General Physics II Lab **1 Credit(s)**

Term Credits: 14

Term 6

- CHEM 223Z - General Chemistry III **4 Credit(s)** spring term only
- CHEM 229Z - General Chemistry III Laboratory **1 Credit(s)** spring term only
- PH 203 - General Physics III **4 Credit(s)**
- PH 203L - General Physics III Lab **1 Credit(s)**
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)** or any Social Science course

Term Credits: 14

For more information, contact the Science Department:

Phone: 541-956-7500

Email: ScienceInfo@roguecc.edu

Web address: www.roguecc.edu/science

TTY: Oregon Telecom Relay Service, 711

Computer Science Transfer to SOU

Associate of Science

About the Program

This Associate of Science (AS) degree is based on a signed articulation agreement with Southern Oregon University (SOU). The program is designed for students transferring to its baccalaureate degree program in computer science. Students must work closely with advisors in their areas of interest to ensure electives are appropriate.

The curriculum allows for 24 core credits within the major area. By completing all appropriate credits (including electives), students will have fulfilled all required lower-division coursework for transfer to SOU. Students should be aware, however, that if they transfer before completing this degree, courses will be evaluated individually toward the transfer requirements of the college of their choice.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. The program learning outcomes for the Computer Science Transfer to Southern Oregon University are:

Demonstrate the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined technology activities.

Ability to apply a knowledge of mathematics, science, engineering, and technology problems that require limited application of principles but extensive practical knowledge.

Ability to identify, analyze, and solve narrowly defined technology problems.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C-" or better. Students should be aware that SOU requires a grade of "B" in CS161 and CS162 for transfer. Certain required courses are also graded on a pass/no

pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult with an advisor regularly as you complete your transfer degree.

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Total Program Credits: 90-91

Program Email Address: ComputerScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- CIS 120 - Concepts in Computing I **2 Credit(s)**
- MTH 95 - Intermediate Algebra **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 2-10

Fall

Check in with Advisor

- CIS 145 - Introduction to Hardware - Software **5 Credit(s)**
- ENG 104Z - Introduction to Fiction **4 Credit(s)** or approved Humanities transfer course (credits vary)
- PSY 101 - Psychology of Human Relations **3 Credit(s)** or approved Social Science transfer course (credits vary)
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 16

Winter

- CIS 125DB - Advanced Applications - Access **3 Credit(s)**
- COMM 225 - Small Group Communication **4 Credit(s)**
- MTH 111Z - Precalculus I - Functions **4 Credit(s)**
- WR 227Z - Technical Writing **4 Credit(s)** or WR 122Z

Term Credits: 15

Spring

- CS 160 - Introduction to Computer Science **4 Credit(s)** or approved programming language course
- CIS 195 - Web Authoring I **4 Credit(s)** or approved Science transfer course (credits vary)
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)** or approved Humanities transfer course (credits vary)
- PHL 101 - Philosophical Problems **4 Credit(s)**

Term Credits: 16

Fall

Check in with Advisor

- CS 161U - Computer Science I - C++ **4 Credit(s)** fall term only
- MTH 251Z - Differential Calculus **4 Credit(s)** fall at RWC; fall/winter at RVC
- PH 201 - General Physics I **4 Credit(s)** or approved Science transfer course (credit vary)
- PH 201L - General Physics I Lab **1 Credit(s)** or approved Science transfer course (credits vary)
- CIS 240LX - Advanced Operating Systems - Linux **4 Credit(s)** or approved Computer Science elective

Term Credits: 17

Winter

- CS 162U - Computer Science II - C++ **4 Credit(s)** winter term only
- MTH 252Z - Integral Calculus **4 Credit(s)** winter at RWC; winter/spring at RVC
- PH 202 - General Physics II **4 Credit(s)** or approved Science Lab course (credits vary)
- PH 202L - General Physics II Lab **1 Credit(s)** or approved Science Lab course (credits vary)
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)** or approved Social Science transfer course (credits vary)

Term Credits: 17

Spring

- CS 275 - Data Base Development I **4 Credit(s)** spring term only

- CS 234U - Object Oriented Programming in C++ **4 Credit(s)** or approved Computer Science elective
- MUS 210 - Music in World Cultures **4 Credit(s)** or approved Humanities transfer course (credits vary)
- PSY 201Z - Introduction to Psychology I **4 Credit(s)** or approved Social Science transfer course (credits vary)

Term Credits: 16

Advising reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Humanities Electives

Complete at least three courses from the following list, 9-12 credits.

- ART 131 - Introduction to Drawing - Value **3 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- COMM 115 - Intercultural Communication **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 257 - African American Literature **4 Credit(s)**
- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**

- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- IS 110 - Intro to International Studies **4 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**
- TA 141 - Fundamentals of Acting I **4 Credit(s)**
- WR 241 - Imaginative Writing I **4 Credit(s)**
- WR 242 - Imaginative Writing II **4 Credit(s)**
- WR 243 - Imaginative Writing III **4 Credit(s)**

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Science Electives

Complete at least three courses, two of which must have labs, from the following list, 11-15 credits. Note that only one course can be a regional field studies course indicated by an asterisk. For list of SOU's General Education Capacities please go to their website.

- BI 103 - Introduction to Biology III **3 Credit(s)** **AND** BI 103L
- BI 121 - Elem Anatomy - Physiology I **3 Credit(s)** **AND** BI 121L
- CHEM 104 - Introductory Chemistry **4 Credit(s)** **AND** CHEM 104L **AND**
- CHEM 105 - Introductory Organic Chemistry **3 Credit(s)** **AND** CHEM 105L
- CHEM 106 - Introductory Biochemistry **3 Credit(s)** **AND** CHEM 106L
- CIS 195 - Web Authoring I **4 Credit(s)** (non-lab course)
- ENV 111 - Intro to Environmental Science **3 Credit(s)** (non-lab course)
- G 100 - Fundamentals of Geology **3 Credit(s)** (non-lab course)
- G 101 - Intro to Geology I **3 Credit(s)** **AND** G 101L
- G 102 - Intro to Geology II Surface Process **3 Credit(s)** **AND** G 102L
- GEOG 100 - Introduction to Physical Geography **3 Credit(s)** (non-lab course)
- GS 108 - Physical Science - Oceanography **3 Credit(s)** **AND** GS 108L
- PH 201 - General Physics I **4 Credit(s)** **AND** PH 201L **AND** PH 201R
- PH 202 - General Physics II **4 Credit(s)** **AND** PH 202L **AND**
- PH 203 - General Physics III **4 Credit(s)** **AND** PH 203L **AND**
- PH 211 - General Physics - Calculus I **4 Credit(s)** **AND** PH 211L **AND** PH 211R
- PH 212 - General Physics - Calculus II **4 Credit(s)** **AND** PH 212L **AND**
- PH 213 - General Physics - Calculus III **4 Credit(s)** **AND** PH 213L **AND**

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Social Science Electives

Complete at least three courses from the following list, 9-12 credits.

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)**
- ANTH 150 - Introduction to Archaeology **4 Credit(s)**
- SOC 244 - Introduction to Criminology **4 Credit(s)**
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**

- COMM 237 - Communication and Gender **4 Credit(s)**
- ECON 115 - Introduction to Economics **3 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- GEOG 120 - World Regional Geography **4 Credit(s)**
- HPE 295 - Health and Fitness for Life **3 Credit(s)**
- HST 104 - World Civ Prehistory - Middle Ages **4 Credit(s)**
- HST 105 - World Civ Byzantium - Present **4 Credit(s)**
- HST 201 - US History through Reconstruction **4 Credit(s)**
- HST 202 - US HST Post Reconstruction-Present **4 Credit(s)**
- PS 201 - US Gov Institutions and Policy **4 Credit(s)**
- PS 202 - US Gov Ideologies and Engagement **4 Credit(s)**
- PS 203 - State and Local Government **4 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**
- PSY 119 - Psychology of Personal Growth **4 Credit(s)**
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**
- PSY 219 - Introduction to Abnormal Psychology **4 Credit(s)**
- SOC 204Z - Introduction to Sociology **4 Credit(s)**
- SOC 205Z - Social Change and Institutions **4 Credit(s)**
- SOC 206Z - Social Problems **4 Credit(s)**
- SOC 211 - Social Deviance and Social Control **3 Credit(s)**
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)**
- SOC 218 - Sociology of Gender **4 Credit(s)**
- SOC 228 - Environment and Society **4 Credit(s)**
- SOC 230 - Aging and Society **4 Credit(s)**
- SOC 235 - Chicano-a and Latino-a US History **4 Credit(s)** or HST 259

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Computer Science Electives (0-9 Credits)

Depending upon how many credits are applied under Humanities, Social Science and Science, complete sufficient number of Computer Science elective courses from the list below in order to meet program total minimum credit requirement.

- CIS 179 - Introduction to Networks **4 Credit(s)**
- CIS 240LX - Advanced Operating Systems - Linux **4 Credit(s)**
- CIS 279 - Network Operating Systems **4 Credit(s)**
- CS 133C - Programming Using C Sharp **4 Credit(s)**
- CS 234U - Object Oriented Programming in C++ **4 Credit(s)**
- CS 260 - Data Structures I **4 Credit(s)**
- MTH 253Z - Calculus - Sequences and Series **4 Credit(s)**
- MTH 254 - Calculus IV - Vector Calculus **5 Credit(s)**

For more information, contact the Computer Science Department:

Phone: 541-956-7500

Email: ComputerScienceInfo@roguecc.edu

Web address: www.roguecc.edu/computerscience

TTY: Oregon Telecom Relay Service, 711

Cybersecurity Transfer to Oregon Tech

Associate of Science

About the Program

The Associate of Science (AS) degree is based on a signed articulation agreement with Oregon Tech. The program is designed for students transferring to its baccalaureate degree program in Cybersecurity. Students must work closely with advisors in their areas of interest to ensure electives are appropriate. The curriculum allows for 47 core credits within the major area. By completing all appropriate credits (including electives), students will fulfill required lower division coursework for transfer to Oregon Tech.

Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the transfer requirements of the college of their choice.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. The program learning outcomes for the Cybersecurity Transfer to Oregon Tech degree are:

Demonstrate the knowledge, techniques, skills, and modern tools of the discipline to defined information systems technology.

Ability to design and implement information systems using the latest technology and standard best practices.

Ability to identify, analyze, and solve technical issues with the use of information systems and technology.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C-" or better. Certain required courses are graded on a pass/no pass

basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90-92

Program email address: ComputerScienceInfo@roguecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- CIS 120 - Concepts in Computing I **2 Credit(s)**
- MTH 95 - Intermediate Algebra **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 2-10

Fall

Check in with Advisor

- BA 211Z - Principles of Financial Accounting **4 Credit(s)**
- CIS 145 - Introduction to Hardware - Software **5 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 17

Winter

- BA 213Z - Principles of Managerial Accounting **4 Credit(s)**
- CIS 179 - Introduction to Networks **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- MTH 111Z - Precalculus I - Functions **4 Credit(s)**

Term Credits: 16

Spring

- CIS 284 - Network Security Fundamentals **4 Credit(s)**
- COMM 111Z - Public Speaking **4 Credit(s)**
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)**
- WR 227Z - Technical Writing **4 Credit(s)**

Term Credits: 16

Fall

Check in with Advisor

- CIS 125DB - Advanced Applications - Access **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)** or approved Humanities transfer course (credits vary)
- CHEM 104 - Introductory Chemistry **4 Credit(s)** or approved Lab Science transfer course (credits vary)
- CHEM 104L - Introductory Chemistry Lab **1 Credit(s)** or approved Lab Science transfer course (credits vary)

Term Credits: 12

Winter

- BA 206 - Management Fundamentals **3 Credit(s)** offered winter term only
- CIS 240LX - Advanced Operating Systems - Linux **4 Credit(s)**
- COMM 225 - Small Group Communication **4 Credit(s)**
- CS 133C - Programming Using C Sharp **4 Credit(s)** offered winter term only

Term Credits: 15

Spring

- BA 226Z - Introduction to Business Law **4 Credit(s)**
- CIS 279 - Network Operating Systems **4 Credit(s)**
- CS 275 - Data Base Development I **4 Credit(s)** offered spring term only
- HUM 101 - Introduction to Humanities I **4 Credit(s)** or approved Humanities transfer course (credits vary)

Term Credits: 16

Approved Humanities Electives

Complete at least two courses from the following list below, 6-8 credits. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.

Oregon Tech Humanities Electives

- ART 115 - Basic Design - Composition **3 Credit(s) ***
- ART 116 - Basic Design - Color Theory **3 Credit(s) ***
- ART 131 - Introduction to Drawing - Value **3 Credit(s) ***
- ART 132 - Introduction to Drawing - Line **3 Credit(s) ***
- ART 133 - Intro to Drawing - Mixed Media **3 Credit(s) ***
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- ART 234 - Figure Drawing I **3 Credit(s) ***
- ART 235 - Figure Drawing II **3 Credit(s) ***
- ART 236 - Figure Drawing III **3 Credit(s) ***
- ART 237 - Illustration Black and White Media **3 Credit(s) ***
- ART 238 - Illustration - Color Media **3 Credit(s) ***
- ART 239 - Illustration - Perspective **3 Credit(s) ***
- ART 281 - Painting I **3 Credit(s) ***
- ART 282 - Painting II **3 Credit(s) ***
- ART 283 - Painting III **3 Credit(s) ***
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**

- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- MUS 101 - Music Fundamentals **3 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 111 - Music Theory I **3 Credit(s)**
- MUS 112 - Music Theory II **3 Credit(s)**
- MUS 113 - Music Theory III **3 Credit(s)**
- MUS 114 - Aural Skills I **1 Credit(s)**
- MUS 115 - Aural Skills II **1 Credit(s)**
- MUS 116 - Aural Skills III **1 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)**
- MUS 211 - Music Theory IV **3 Credit(s)**
- MUS 212 - Music Theory V **3 Credit(s)**
- MUS 213 - Music Theory VI **3 Credit(s)**

- MUS 224 - Aural Skills IV **1 Credit(s)**
- MUS 225 - Aural Skills V **1 Credit(s)**
- MUS 226 - Aural Skills VI **1 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- PHL 103 - Critical Reasoning **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**

Approved Science Electives

At least four credits must be completed from a laboratory-based science course in BI, CHEM or PH.

Electives

Complete a sufficient number of transfer-level elective (numbered 100 and above) courses to meet the total degree requirements of at least 90 credits.

For more information, contact the Computer Science Department:

Phone: 541-956-7500

Email: ComputerScienceInfo@roguecc.edu

Web address: www.roguecc.edu/computerscience

TTY: Oregon Telecom Relay Service, 711

Engineering Transfer to Oregon Tech - Civil

Associate of Science

About the Program

The Associate of Science - Engineering Transfer to Oregon Tech - Civil is for students interested in transferring to a bachelor's degree program at Oregon Tech.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Overall program learning outcomes for the Engineering Transfer to Oregon Tech - Civil are:

Identify the broad context of engineering problems.

Identify the fundamental elements of engineering design.

Employ mathematics, science, and computing techniques in a systematic and rigorous manner to support engineering problems.

Write and solve applicable equations of equilibrium for statically determinate objects.

Entry Requirements

Students in engineering majors are asked to work closely with the Science Department Chair, ScienceInfo@rogucecc.edu, to ensure success in academic planning.

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with a Science Department recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. Students must complete coursework in their major at a "C-" or better level before proceeding to advanced coursework. Engineering requires advanced coursework, and may take additional time for an associate's degree. The preparatory transfer coursework, which can be taken at RCC, may take up to three years.

Graduation Requirements

Students are required to complete all courses in this program with a grade of "C-" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90-92

Program email address: ScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING ¹

- BT 168 - Advanced Applications - Word **3 Credit(s)**
- CIS 120 - Concepts in Computing I **2 Credit(s)** ²
- MTH 111Z - Precalculus I - Functions **4 Credit(s)** or designated placement
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-17

Fall

Check in with Advisor

PE 185 - Activity course **1 Credit(s)** each, transferable general elective as needed to meet program minimum total credits.

- MTH 251Z - Differential Calculus **4 Credit(s)** fall at RWC; fall/winter at RVC
- ENGR 111 - Engineering Orientation I **3 Credit(s)**
- CHEM 221Z - General Chemistry I **4 Credit(s)** fall term only
- CHEM 227Z - General Chemistry I Laboratory **1 Credit(s)** fall term only

Term Credits: 13

Winter

- CHEM 222Z - General Chemistry II **4 Credit(s)** winter term only
- CHEM 228Z - General Chemistry II Laboratory **1 Credit(s)** winter term only
- ENGR 112 - Engineering Orientation II **3 Credit(s)** winter term only
- MTH 252Z - Integral Calculus **4 Credit(s)** winter at RWC; winter/spring at RVC
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 16

Spring

- ART 204 - Prehistoric to Gothic Art **4 Credit(s)** or approved transferable Humanities course
- BI 101 - Introduction to Biology I **3 Credit(s)**
- BI 101L - Introduction to Biology I Lab **1 Credit(s)**
- CHEM 223Z - General Chemistry III **4 Credit(s)** spring term only
- CHEM 229Z - General Chemistry III Laboratory **1 Credit(s)** spring term only

Term Credits: 13

Summer

Check in with Advisor

- MTH 254 - Calculus IV - Vector Calculus **5 Credit(s)** summer term only
- MTH 256 - Differential Equations **5 Credit(s)** summer term only

Term Credits: 10

Fall

- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- PH 211 - General Physics - Calculus I **4 Credit(s)** fall term only
- PH 211L - General Physics - Calculus I Lab **1 Credit(s)** fall term only
- WR 227Z - Technical Writing **4 Credit(s)** or WR 122Z

Term Credits: 13

Winter

- COMM 111Z - Public Speaking **4 Credit(s)**
- ENGR 211 - Statics **4 Credit(s)** winter term only
- PH 212 - General Physics - Calculus II **4 Credit(s)** winter term only
- PH 212L - General Physics - Calculus II Lab **1 Credit(s)** winter term only

Term Credits: 13

Spring

- ENGR 213 - Strength of Materials **4 Credit(s)** spring term only
- PH 213 - General Physics - Calculus III **4 Credit(s)** spring term only
- PH 213L - General Physics - Calculus III Lab **1 Credit(s)** spring term only
- PSY 201Z - Introduction to Psychology I **4 Credit(s)** or approved transferable Social Science course

Term Credits: 13

Approved Humanities Elective

One course, 3-4 credits, from the list below. A maximum of three performance or studio-based credits indicated by an asterisk are allowed. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.

Oregon Tech Humanities Electives

- ART 115 - Basic Design - Composition **3 Credit(s) ***
- ART 116 - Basic Design - Color Theory **3 Credit(s) ***
- ART 131 - Introduction to Drawing - Value **3 Credit(s) ***
- ART 132 - Introduction to Drawing - Line **3 Credit(s) ***
- ART 133 - Intro to Drawing - Mixed Media **3 Credit(s) ***
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- ART 234 - Figure Drawing I **3 Credit(s) ***
- ART 235 - Figure Drawing II **3 Credit(s) ***
- ART 236 - Figure Drawing III **3 Credit(s) ***
- ART 237 - Illustration Black and White Media **3 Credit(s) ***
- ART 238 - Illustration - Color Media **3 Credit(s) ***
- ART 239 - Illustration - Perspective **3 Credit(s) ***
- ART 281 - Painting I **3 Credit(s) ***
- ART 282 - Painting II **3 Credit(s) ***
- ART 283 - Painting III **3 Credit(s) ***
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**

- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- MUS 101 - Music Fundamentals **3 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 111 - Music Theory I **3 Credit(s)**
- MUS 112 - Music Theory II **3 Credit(s)**
- MUS 113 - Music Theory III **3 Credit(s)**
- MUS 114 - Aural Skills I **1 Credit(s)**
- MUS 115 - Aural Skills II **1 Credit(s)**

- MUS 116 - Aural Skills III **1 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)**
- MUS 211 - Music Theory IV **3 Credit(s)**
- MUS 212 - Music Theory V **3 Credit(s)**
- MUS 213 - Music Theory VI **3 Credit(s)**
- MUS 224 - Aural Skills IV **1 Credit(s)**
- MUS 225 - Aural Skills V **1 Credit(s)**
- MUS 226 - Aural Skills VI **1 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- PHL 103 - Critical Reasoning **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**

Approved Social Science Elective

(One course, 3-4 credits, from the list below.)

Oregon Tech Social Science Electives

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)**

- ANTH 150 - Introduction to Archaeology **4 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- GEOG 110 - Introduction to Human Geography **4 Credit(s)**
- GEOG 120 - World Regional Geography **4 Credit(s)**
- HST 104 - World Civ Prehistory - Middle Ages **4 Credit(s)**
- HST 105 - World Civ Byzantium - Present **4 Credit(s)**
- HST 201 - US History through Reconstruction **4 Credit(s)**
- HST 202 - US HST Post Reconstruction-Present **4 Credit(s)**
- PS 201 - US Gov Institutions and Policy **4 Credit(s)**
- PS 202 - US Gov Ideologies and Engagement **4 Credit(s)**
- PS 203 - State and Local Government **4 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**
- PSY 119 - Psychology of Personal Growth **4 Credit(s)**
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**
- PSY 202Z - Introduction to Psychology II **4 Credit(s)**
- PSY 219 - Introduction to Abnormal Psychology **4 Credit(s)**
- PSY 231 - Human Sexuality **3 Credit(s)**
- SOC 204Z - Introduction to Sociology **4 Credit(s)**
- SOC 205Z - Social Change and Institutions **4 Credit(s)**
- SOC 211 - Social Deviance and Social Control **3 Credit(s)**
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)**
- SOC 218 - Sociology of Gender **4 Credit(s)**
- SOC 221 - Juvenile Delinquency **4 Credit(s)**
- SOC 206Z - Social Problems **4 Credit(s)**
- SOC 228 - Environment and Society **4 Credit(s)**
- SOC 230 - Aging and Society **4 Credit(s)**
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- SOC 244 - Introduction to Criminology **4 Credit(s)**

Notes:

¹ Prerequisite courses may have additional requirements.

² Approved Computer Information Science or Computer Science class, CIS 120 / CS120 or above, or documented computer proficiency within the past ten years.

For more information, contact the Science Department:

Phone: 541-956-7500

Email: ScienceInfo@roguecc.edu

Web address: www.roguecc.edu/science

TTY: Oregon Telecom Relay Service, 711

Engineering Transfer to Oregon Tech - Electrical

Associate of Science

About the Program

The Associate of Science - Engineering Transfer to Oregon Tech - Electrical is for students interested in transferring to a bachelor's degree program at Oregon Tech.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Overall program learning outcomes for the Engineering Transfer to Oregon Tech - Electrical are:

Identify the broad context of engineering problems.

Identify the fundamental elements of engineering design

Employ mathematics, science, and computing techniques in a systematic and rigorous manner to support engineering problems.

Define how electrical concepts relate with each other.

Entry Requirements

Students in engineering majors are asked to work closely with the Science Department Chair, ScienceInfo@rogucecc.edu, to ensure success in academic planning.

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with a Science Department recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. Students must complete coursework in their major at a "C-" or better level before proceeding to advanced coursework. Engineering requires advanced coursework, and may take additional time for an associate's degree. The preparatory transfer coursework, which can be taken at RCC, may take up to three years.

Graduation Requirements

Students are required to complete all courses in this program with a grade of "C-" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90-92

Program email address: ScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING ¹

- BT 168 - Advanced Applications - Word **3 Credit(s)**
- CIS 120 - Concepts in Computing I **2 Credit(s)** ²
- MTH 111Z - Precalculus I - Functions **4 Credit(s)** or designated placement
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-17

Fall

Check in with Advisor

- CHEM 221Z - General Chemistry I **4 Credit(s)** fall term only
- CHEM 227Z - General Chemistry I Laboratory **1 Credit(s)** fall term only
- ENGR 111 - Engineering Orientation I **3 Credit(s)** fall term only
- MTH 251Z - Differential Calculus **4 Credit(s)** fall at RWC; fall/winter at RVC
- PSY 201Z - Introduction to Psychology I **4 Credit(s)** or approved Social Science course

Term Credits: 16

Winter

- CHEM 222Z - General Chemistry II **4 Credit(s)** winter term only
- CHEM 228Z - General Chemistry II Laboratory **1 Credit(s)** winter term only
- ENGR 112 - Engineering Orientation II **3 Credit(s)** winter term only
- MTH 252Z - Integral Calculus **4 Credit(s)** winter at RWC; winter/spring at RVC
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 16

Spring

- ART 204 - Prehistoric to Gothic Art **4 Credit(s)** or approved Humanities course
- COMM 111Z - Public Speaking **4 Credit(s)**
- MTH 261 - Linear Algebra **5 Credit(s)** spring term only

Term Credits: 13

Summer

Check in with Advisor

- MTH 254 - Calculus IV - Vector Calculus **5 Credit(s)** summer term only
- MTH 256 - Differential Equations **5 Credit(s)** summer term only

Term Credits: 10

Fall

- CS 161U - Computer Science I - C++ **4 Credit(s)** fall term only
- ENGR 201 - Electrical Fundamentals I **2 Credit(s)** fall term only
- ENGR 201L - Electrical Fundamentals I Lab **1 Credit(s)** fall term only
- PH 211 - General Physics - Calculus I **4 Credit(s)** fall term only
- PH 211L - General Physics - Calculus I Lab **1 Credit(s)** fall term only

Term Credits: 12

Winter

- CS 162U - Computer Science II - C++ **4 Credit(s)** winter term only
- ENGR 202 - Electrical Fundamentals II **2 Credit(s)** winter term only
- ENGR 202L - Electrical Fundamentals II Lab **1 Credit(s)** winter term only
- PH 212 - General Physics - Calculus II **4 Credit(s)** winter term only
- PH 212L - General Physics - Calculus II Lab **1 Credit(s)** winter term only

Term Credits: 12

Spring

- ECON 201Z - Principles of Microeconomics **4 Credit(s)** spring term only
- PH 213 - General Physics - Calculus III **4 Credit(s)** spring term only
- PH 213L - General Physics - Calculus III Lab **1 Credit(s)** spring term only
- WR 227Z - Technical Writing **4 Credit(s)** or WR 122Z

Term Credits: 13

Approved Humanities Elective

(One course, 3-4 credits, from the list below. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Oregon Tech Humanities Electives

- ART 115 - Basic Design - Composition **3 Credit(s) ***
- ART 116 - Basic Design - Color Theory **3 Credit(s) ***
- ART 131 - Introduction to Drawing - Value **3 Credit(s) ***
- ART 132 - Introduction to Drawing - Line **3 Credit(s) ***
- ART 133 - Intro to Drawing - Mixed Media **3 Credit(s) ***
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- ART 234 - Figure Drawing I **3 Credit(s) ***
- ART 235 - Figure Drawing II **3 Credit(s) ***
- ART 236 - Figure Drawing III **3 Credit(s) ***
- ART 237 - Illustration Black and White Media **3 Credit(s) ***
- ART 238 - Illustration - Color Media **3 Credit(s) ***
- ART 239 - Illustration - Perspective **3 Credit(s) ***
- ART 281 - Painting I **3 Credit(s) ***
- ART 282 - Painting II **3 Credit(s) ***
- ART 283 - Painting III **3 Credit(s) ***
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 106Z - Introduction to Poetry **4 Credit(s)**

- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- MUS 101 - Music Fundamentals **3 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 111 - Music Theory I **3 Credit(s)**
- MUS 112 - Music Theory II **3 Credit(s)**
- MUS 113 - Music Theory III **3 Credit(s)**
- MUS 114 - Aural Skills I **1 Credit(s)**
- MUS 115 - Aural Skills II **1 Credit(s)**
- MUS 116 - Aural Skills III **1 Credit(s)**

- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)**
- MUS 211 - Music Theory IV **3 Credit(s)**
- MUS 212 - Music Theory V **3 Credit(s)**
- MUS 213 - Music Theory VI **3 Credit(s)**
- MUS 224 - Aural Skills IV **1 Credit(s)**
- MUS 225 - Aural Skills V **1 Credit(s)**
- MUS 226 - Aural Skills VI **1 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- PHL 103 - Critical Reasoning **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**

Approved Social Science Elective

(One course, 3-4 credits, from the list below.)

Oregon Tech Social Science Electives

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)**
- ANTH 150 - Introduction to Archaeology **4 Credit(s)**

- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- GEOG 110 - Introduction to Human Geography **4 Credit(s)**
- GEOG 120 - World Regional Geography **4 Credit(s)**
- HST 104 - World Civ Prehistory - Middle Ages **4 Credit(s)**
- HST 105 - World Civ Byzantium - Present **4 Credit(s)**
- HST 201 - US History through Reconstruction **4 Credit(s)**
- HST 202 - US HST Post Reconstruction-Present **4 Credit(s)**
- PS 201 - US Gov Institutions and Policy **4 Credit(s)**
- PS 202 - US Gov Ideologies and Engagement **4 Credit(s)**
- PS 203 - State and Local Government **4 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**
- PSY 119 - Psychology of Personal Growth **4 Credit(s)**
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**
- PSY 202Z - Introduction to Psychology II **4 Credit(s)**
- PSY 219 - Introduction to Abnormal Psychology **4 Credit(s)**
- PSY 231 - Human Sexuality **3 Credit(s)**
- SOC 204Z - Introduction to Sociology **4 Credit(s)**
- SOC 205Z - Social Change and Institutions **4 Credit(s)**
- SOC 211 - Social Deviance and Social Control **3 Credit(s)**
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)**
- SOC 218 - Sociology of Gender **4 Credit(s)**
- SOC 221 - Juvenile Delinquency **4 Credit(s)**
- SOC 206Z - Social Problems **4 Credit(s)**
- SOC 228 - Environment and Society **4 Credit(s)**
- SOC 230 - Aging and Society **4 Credit(s)**
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- SOC 244 - Introduction to Criminology **4 Credit(s)**

Notes:

¹ Prerequisite courses may have additional requirements.

² Approved Computer Information Science or Computer Science class, CIS 120 / CS120 or above, or documented computer proficiency within the past ten years.

For more information, contact the Science Department:

Phone: 541-956-7500

Email: ScienceInfo@roguecc.edu

Web address: www.roguecc.edu/science

TTY: Oregon Telecom Relay Service, 711

Engineering Transfer to Oregon Tech - Mechanical

Associate of Science

About the Program

The Associate of Science - Engineering Transfer to Oregon Tech - Mechanical is for students interested in transferring to a bachelor's degree program at Oregon Tech.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Overall program learning outcomes for the Engineering Transfer to Oregon Tech - Mechanical are:

Identify the broad context of engineering problems.

Identify the fundamental elements of engineering design.

Employ mathematics, science, and computing techniques in a systematic and rigorous manner to support engineering problems.

Define how mechanical concepts relate with each other.

Entry Requirements

Students in engineering majors are asked to work closely with the Science Department Chair, ScienceInfo@rogucecc.edu, to ensure success in academic planning.

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with a Science Department recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. Students must complete coursework in their major at a "C-" or better level before proceeding to advanced coursework. Engineering requires advanced coursework, and may take additional time for an associate's degree. The preparatory transfer coursework, which can be taken at RCC, may take up to three years.

Graduation Requirements

Students are required to complete all courses in this program with a grade of "C-" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 91-92

Program email address: ScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING ¹

- BT 168 - Advanced Applications - Word **3 Credit(s)**
- CIS 120 - Concepts in Computing I **2 Credit(s)** ²
- MTH 111Z - Precalculus I - Functions **4 Credit(s)** or designated placement
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)** or designated placement
- WR 121Z - Composition I **4 Credit(s)** ³

Prerequisite Credits: 0-17

Fall

Check in with Advisor

- ENGR 111 - Engineering Orientation I **3 Credit(s)** fall term only
- CHEM 221Z - General Chemistry I **4 Credit(s)** fall term only
- CHEM 227Z - General Chemistry I Laboratory **1 Credit(s)** fall term only
- COMM 111Z - Public Speaking **4 Credit(s)**
- MTH 251Z - Differential Calculus **4 Credit(s)** fall at RWC; fall/winter at RVC

Term Credits: 16

Winter

- CHEM 222Z - General Chemistry II **4 Credit(s)** winter term only
- CHEM 228Z - General Chemistry II Laboratory **1 Credit(s)** winter term only
- COMM 225 - Small Group Communication **4 Credit(s)**
- ENGR 112 - Engineering Orientation II **3 Credit(s)** winter term only
- MTH 252Z - Integral Calculus **4 Credit(s)** winter at RWC; winter/spring at RVC

Term Credits: 16

Spring

- MTH 261 - Linear Algebra **5 Credit(s)** spring term only
- PSY 201Z - Introduction to Psychology I **4 Credit(s)** or approved Social Science course
- WR 227Z - Technical Writing **4 Credit(s)** or WR 122Z

Term Credits: 13

Summer

Check in with Advisor

- MTH 254 - Calculus IV - Vector Calculus **5 Credit(s)** summer term only
- MTH 256 - Differential Equations **5 Credit(s)** summer term only

Term Credits: 10

Fall

- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ENGR 201 - Electrical Fundamentals I **2 Credit(s)** fall term only
- ENGR 201L - Electrical Fundamentals I Lab **1 Credit(s)** fall term only
- PH 211 - General Physics - Calculus I **4 Credit(s)** fall term only
- PH 211L - General Physics - Calculus I Lab **1 Credit(s)** fall term only

Term Credits: 12

Winter

- ENGR 202 - Electrical Fundamentals II **2 Credit(s)** winter term only
- ENGR 202L - Electrical Fundamentals II Lab **1 Credit(s)** winter term only
- ENGR 211 - Statics **4 Credit(s)** winter term only
- PH 212 - General Physics - Calculus II **4 Credit(s)** winter term only
- PH 212L - General Physics - Calculus II Lab **1 Credit(s)** winter term only

Term Credits: 12

Spring

- ENGR 212 - Dynamics **4 Credit(s)** spring term only
- ENGR 213 - Strength of Materials **4 Credit(s)** spring term only

- PH 213 - General Physics - Calculus III **4 Credit(s)** spring term only
- PH 213L - General Physics - Calculus III Lab **1 Credit(s)** spring term only

Term Credits: 13

Approved Humanities Elective(s)

3-4 credits from the list below, as needed to meet program total minimum credits required.
(A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Oregon Tech Humanities Electives

- ART 115 - Basic Design - Composition **3 Credit(s)** *
- ART 116 - Basic Design - Color Theory **3 Credit(s)** *
- ART 131 - Introduction to Drawing - Value **3 Credit(s)** *
- ART 132 - Introduction to Drawing - Line **3 Credit(s)** *
- ART 133 - Intro to Drawing - Mixed Media **3 Credit(s)** *
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- ART 234 - Figure Drawing I **3 Credit(s)** *
- ART 235 - Figure Drawing II **3 Credit(s)** *
- ART 236 - Figure Drawing III **3 Credit(s)** *
- ART 237 - Illustration Black and White Media **3 Credit(s)** *
- ART 238 - Illustration - Color Media **3 Credit(s)** *
- ART 239 - Illustration - Perspective **3 Credit(s)** *
- ART 281 - Painting I **3 Credit(s)** *
- ART 282 - Painting II **3 Credit(s)** *
- ART 283 - Painting III **3 Credit(s)** *
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**

- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- MUS 101 - Music Fundamentals **3 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 111 - Music Theory I **3 Credit(s)**
- MUS 112 - Music Theory II **3 Credit(s)**
- MUS 113 - Music Theory III **3 Credit(s)**
- MUS 114 - Aural Skills I **1 Credit(s)**
- MUS 115 - Aural Skills II **1 Credit(s)**
- MUS 116 - Aural Skills III **1 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**

- MUS 206 - Introduction to Rock Music **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)**
- MUS 211 - Music Theory IV **3 Credit(s)**
- MUS 212 - Music Theory V **3 Credit(s)**
- MUS 213 - Music Theory VI **3 Credit(s)**
- MUS 224 - Aural Skills IV **1 Credit(s)**
- MUS 225 - Aural Skills V **1 Credit(s)**
- MUS 226 - Aural Skills VI **1 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- PHL 103 - Critical Reasoning **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**

Approved Social Science Elective

One course 3-4 credits from the list below, as needed to meet program total minimum credits required.

Oregon Tech Social Science Electives

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)**
- ANTH 150 - Introduction to Archaeology **4 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**

- GEOG 110 - Introduction to Human Geography **4 Credit(s)**
- GEOG 120 - World Regional Geography **4 Credit(s)**
- HST 104 - World Civ Prehistory - Middle Ages **4 Credit(s)**
- HST 105 - World Civ Byzantium - Present **4 Credit(s)**
- HST 201 - US History through Reconstruction **4 Credit(s)**
- HST 202 - US HST Post Reconstruction-Present **4 Credit(s)**
- PS 201 - US Gov Institutions and Policy **4 Credit(s)**
- PS 202 - US Gov Ideologies and Engagement **4 Credit(s)**
- PS 203 - State and Local Government **4 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**
- PSY 119 - Psychology of Personal Growth **4 Credit(s)**
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**
- PSY 202Z - Introduction to Psychology II **4 Credit(s)**
- PSY 219 - Introduction to Abnormal Psychology **4 Credit(s)**
- PSY 231 - Human Sexuality **3 Credit(s)**
- SOC 204Z - Introduction to Sociology **4 Credit(s)**
- SOC 205Z - Social Change and Institutions **4 Credit(s)**
- SOC 211 - Social Deviance and Social Control **3 Credit(s)**
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)**
- SOC 218 - Sociology of Gender **4 Credit(s)**
- SOC 221 - Juvenile Delinquency **4 Credit(s)**
- SOC 206Z - Social Problems **4 Credit(s)**
- SOC 228 - Environment and Society **4 Credit(s)**
- SOC 230 - Aging and Society **4 Credit(s)**
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- SOC 244 - Introduction to Criminology **4 Credit(s)**

Notes:

¹ Prerequisite courses may have additional requirements.

² Approved Computer Information Science or Computer Science class, CIS 120 / CS120 or above, or documented computer proficiency within the past ten years.

³ Required for graduation.

For more information, contact the Science Department:

Phone: 541-956-7500

Email: ScienceInfo@roguecc.edu

Web address: www.roguecc.edu/science

TTY: Oregon Telecom Relay Service, 711

Engineering Transfer to Oregon Tech - Renewable Energy

Associate of Science

About the Program

The Associate of Science - Engineering Transfer to Oregon Tech - Renewable Energy is for students interested in transferring to a bachelor's degree program at Oregon Tech.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Overall program learning outcomes for the Engineering Transfer to Oregon Tech - Renewable Energy are:

Identify the broad context of engineering problems.

Identify the fundamental elements of engineering design.

Employ mathematics, science, and computing techniques in a systematic and rigorous manner to support engineering problems.

Write and solve applicable equations of equilibrium for statically determinate objects.

Define how electrical concepts relate with each other.

Entry Requirements

Students in engineering majors are asked to work closely with the Science Department Chair, ScienceInfo@rogucecc.edu, to ensure success in academic planning.

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with a Science Department recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. Students must complete coursework in their major at a "C-" or better level before proceeding to advanced coursework. Engineering requires advanced coursework, and may take additional time for an associate's degree. The preparatory transfer coursework, which can be taken at RCC, may take up to three years.

Graduation Requirements

Students are required to complete all courses in this program with a grade of "C-" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 91-93

Program email address: ScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING ¹

- BT 168 - Advanced Applications - Word **3 Credit(s)**
- CIS 120 - Concepts in Computing I **2 Credit(s)** ²
- MTH 111Z - Precalculus I - Functions **4 Credit(s)** or designated placement
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-17

Fall

Check in with Advisor

- CHEM 221Z - General Chemistry I **4 Credit(s)** fall term only
- CHEM 227Z - General Chemistry I Laboratory **1 Credit(s)** fall term only
- ENGR 111 - Engineering Orientation I **3 Credit(s)** fall term only
- MTH 251Z - Differential Calculus **4 Credit(s)** fall at RWC; fall/winter at RVC

Term Credits: 12

Winter

- CHEM 222Z - General Chemistry II **4 Credit(s)** winter term only
- CHEM 228Z - General Chemistry II Laboratory **1 Credit(s)** winter term only
- ENGR 112 - Engineering Orientation II **3 Credit(s)** winter term only
- MTH 252Z - Integral Calculus **4 Credit(s)** winter at RWC; winter/spring at RVC

- PSY 201Z - Introduction to Psychology I **4 Credit(s)** or approved Social Science course

Term Credits: 16

Spring

- ART 204 - Prehistoric to Gothic Art **4 Credit(s)** or approved Humanities course
- CHEM 223Z - General Chemistry III **4 Credit(s)** spring term only
- CHEM 229Z - General Chemistry III Laboratory **1 Credit(s)** spring term only
- MTH 261 - Linear Algebra **5 Credit(s)** spring term only

Term Credits: 14

Summer

Check in with Advisor

- MTH 254 - Calculus IV - Vector Calculus **5 Credit(s)** summer term only
- MTH 256 - Differential Equations **5 Credit(s)** summer term only

Term Credits: 10

Fall

- PH 211 - General Physics - Calculus I **4 Credit(s)** fall term only
- PH 211L - General Physics - Calculus I Lab **1 Credit(s)** fall term only
- WR 121Z - Composition I **4 Credit(s)**
- ENGR 201 - Electrical Fundamentals I **2 Credit(s)** fall term only
- ENGR 201L - Electrical Fundamentals I Lab **1 Credit(s)** fall term only

Term Credits: 12

Winter

- PH 212 - General Physics - Calculus II **4 Credit(s)** winter term only
- PH 212L - General Physics - Calculus II Lab **1 Credit(s)** winter term only
- ENGR 202 - Electrical Fundamentals II **2 Credit(s)** winter term only
- ENGR 202L - Electrical Fundamentals II Lab **1 Credit(s)** winter term only
- ENGR 211 - Statics **4 Credit(s)** winter term only
- COMM 111Z - Public Speaking **4 Credit(s)**

Term Credits: 16

Spring

- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- PH 213 - General Physics - Calculus III **4 Credit(s)** spring term only
- PH 213L - General Physics - Calculus III Lab **1 Credit(s)** spring term only
- WR 227Z - Technical Writing **4 Credit(s)** or WR 122Z

Term Credits: 13

Approved Humanities Elective

(One course 3-4 credits, from the list below. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Oregon Tech Humanities Electives

- ART 115 - Basic Design - Composition **3 Credit(s) ***
- ART 116 - Basic Design - Color Theory **3 Credit(s) ***
- ART 131 - Introduction to Drawing - Value **3 Credit(s) ***
- ART 132 - Introduction to Drawing - Line **3 Credit(s) ***
- ART 133 - Intro to Drawing - Mixed Media **3 Credit(s) ***
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- ART 234 - Figure Drawing I **3 Credit(s) ***
- ART 235 - Figure Drawing II **3 Credit(s) ***
- ART 236 - Figure Drawing III **3 Credit(s) ***
- ART 237 - Illustration Black and White Media **3 Credit(s) ***
- ART 238 - Illustration - Color Media **3 Credit(s) ***
- ART 239 - Illustration - Perspective **3 Credit(s) ***
- ART 281 - Painting I **3 Credit(s) ***
- ART 282 - Painting II **3 Credit(s) ***
- ART 283 - Painting III **3 Credit(s) ***
- ENG 104Z - Introduction to Fiction **4 Credit(s)**

- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- MUS 101 - Music Fundamentals **3 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 111 - Music Theory I **3 Credit(s)**
- MUS 112 - Music Theory II **3 Credit(s)**
- MUS 113 - Music Theory III **3 Credit(s)**
- MUS 114 - Aural Skills I **1 Credit(s)**

- MUS 115 - Aural Skills II **1 Credit(s)**
- MUS 116 - Aural Skills III **1 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)**
- MUS 211 - Music Theory IV **3 Credit(s)**
- MUS 212 - Music Theory V **3 Credit(s)**
- MUS 213 - Music Theory VI **3 Credit(s)**
- MUS 224 - Aural Skills IV **1 Credit(s)**
- MUS 225 - Aural Skills V **1 Credit(s)**
- MUS 226 - Aural Skills VI **1 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- PHL 103 - Critical Reasoning **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**

Approved Social Science Elective

(One course, 3-4 credits, from the list below.)

Oregon Tech Social Science Electives

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)**
- ANTH 150 - Introduction to Archaeology **4 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- GEOG 110 - Introduction to Human Geography **4 Credit(s)**
- GEOG 120 - World Regional Geography **4 Credit(s)**
- HST 104 - World Civ Prehistory - Middle Ages **4 Credit(s)**
- HST 105 - World Civ Byzantium - Present **4 Credit(s)**
- HST 201 - US History through Reconstruction **4 Credit(s)**
- HST 202 - US HST Post Reconstruction-Present **4 Credit(s)**
- PS 201 - US Gov Institutions and Policy **4 Credit(s)**
- PS 202 - US Gov Ideologies and Engagement **4 Credit(s)**
- PS 203 - State and Local Government **4 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**
- PSY 119 - Psychology of Personal Growth **4 Credit(s)**
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**
- PSY 202Z - Introduction to Psychology II **4 Credit(s)**
- PSY 219 - Introduction to Abnormal Psychology **4 Credit(s)**
- PSY 231 - Human Sexuality **3 Credit(s)**
- SOC 204Z - Introduction to Sociology **4 Credit(s)**
- SOC 205Z - Social Change and Institutions **4 Credit(s)**
- SOC 211 - Social Deviance and Social Control **3 Credit(s)**
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)**
- SOC 218 - Sociology of Gender **4 Credit(s)**
- SOC 221 - Juvenile Delinquency **4 Credit(s)**
- SOC 206Z - Social Problems **4 Credit(s)**
- SOC 228 - Environment and Society **4 Credit(s)**
- SOC 230 - Aging and Society **4 Credit(s)**
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- SOC 244 - Introduction to Criminology **4 Credit(s)**

Notes:

¹ Prerequisite courses may have additional requirements.

² Approved Computer Information Science or Computer Science class, CIS 120 / CS120 or above, or documented computer proficiency within the past ten years.

For more information, contact the Science Department:

Phone: 541-956-7500

Email: ScienceInfo@roguecc.edu

Web address: www.roguecc.edu/science

TTY: Oregon Telecom Relay Service, 711

Information Technology Transfer to Oregon Tech

Associate of Science

About the Program

The Associate of Science (AS) degree is based on a signed articulation agreement with Oregon Tech. The program is designed for students transferring to its baccalaureate degree program in Information Technology. Students must work closely with advisors in their areas of interest to ensure electives are appropriate. The curriculum allows for 46 core credits within the major area. By completing all appropriate credits (including electives), students will fulfill required lower division coursework for transfer to Oregon Tech.

Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the transfer requirements of the college of their choice.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. The program learning outcomes for the Information Technology Transfer to Oregon Tech are:

Demonstrate the knowledge, techniques, skills, and modern tools of the discipline to defined information systems technology.

Ability to design and implement information systems using the latest technology and standard best practices.

Ability to identify, analyze, and solve technical issues with the use of information systems and technology.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C-" or better. Certain required courses are graded on a pass/no pass

basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 91-92

Program email address: ComputerScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- CIS 120 - Concepts in Computing I **2 Credit(s)**
- MTH 95 - Intermediate Algebra **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 2-10

Fall

Check in with Advisor

- BA 211Z - Principles of Financial Accounting **4 Credit(s)**
- CIS 145 - Introduction to Hardware - Software **5 Credit(s)**
- STAT 243Z - Elementary Statistics I **4 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 17

Winter

- CIS 179 - Introduction to Networks **4 Credit(s)**
- BA 223 - Principles of Marketing **3 Credit(s)**
- BA 213Z - Principles of Managerial Accounting **4 Credit(s)**
- PSY 202Z - Introduction to Psychology II **4 Credit(s)**

Term Credits: 15

Spring

- MTH 244 - Inferential Statistics **4 Credit(s)**
- CIS 240 - Advanced Operating Systems **4 Credit(s)**
- COMM 111Z - Public Speaking **4 Credit(s)**
- WR 227Z - Technical Writing **4 Credit(s)**

Term Credits: 16

Fall

Check in with Advisor

- BA 169Z - Data Analysis Using Microsoft Excel **4 Credit(s)**
- BI 221Z - Principles of Biology - Cells **5 Credit(s)** or approved Lab Science transfer course (credits vary)
- CIS 284 - Network Security Fundamentals **4 Credit(s)**
- ECON 201Z - Principles of Microeconomics **4 Credit(s)**

Term Credits: 17

Winter

- CS 133C - Programming Using C Sharp **4 Credit(s)** winter term only
- BA 206 - Management Fundamentals **3 Credit(s)** offered winter term only
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)**
- COMM 225 - Small Group Communication **4 Credit(s)**

Term Credits: 15

Spring

- CIS 279 - Network Operating Systems **4 Credit(s)**
- BA 226Z - Introduction to Business Law **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)** or approved Humanities transfer course (credit vary)

Term Credits: 12

Humanities Elective

(Complete at least one course from the following list, 3-4 credits. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Oregon Tech Humanities Electives

- ART 115 - Basic Design - Composition **3 Credit(s) ***
- ART 116 - Basic Design - Color Theory **3 Credit(s) ***
- ART 131 - Introduction to Drawing - Value **3 Credit(s) ***
- ART 132 - Introduction to Drawing - Line **3 Credit(s) ***
- ART 133 - Intro to Drawing - Mixed Media **3 Credit(s) ***
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- ART 234 - Figure Drawing I **3 Credit(s) ***
- ART 235 - Figure Drawing II **3 Credit(s) ***
- ART 236 - Figure Drawing III **3 Credit(s) ***
- ART 237 - Illustration Black and White Media **3 Credit(s) ***
- ART 238 - Illustration - Color Media **3 Credit(s) ***
- ART 239 - Illustration - Perspective **3 Credit(s) ***
- ART 281 - Painting I **3 Credit(s) ***
- ART 282 - Painting II **3 Credit(s) ***
- ART 283 - Painting III **3 Credit(s) ***
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**

- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- MUS 101 - Music Fundamentals **3 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 111 - Music Theory I **3 Credit(s)**
- MUS 112 - Music Theory II **3 Credit(s)**
- MUS 113 - Music Theory III **3 Credit(s)**
- MUS 114 - Aural Skills I **1 Credit(s)**
- MUS 115 - Aural Skills II **1 Credit(s)**
- MUS 116 - Aural Skills III **1 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)**
- MUS 211 - Music Theory IV **3 Credit(s)**
- MUS 212 - Music Theory V **3 Credit(s)**
- MUS 213 - Music Theory VI **3 Credit(s)**
- MUS 224 - Aural Skills IV **1 Credit(s)**
- MUS 225 - Aural Skills V **1 Credit(s)**

- MUS 226 - Aural Skills VI **1 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- PHL 103 - Critical Reasoning **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**

Approved Science Electives

At least four credits must be completed from a laboratory-based science course in BI, CHEM or PH.

For more information, contact the Computer Information Science Department:

Phone: 541-956-7500

Email: ComputerScienceInfo@roquecc.edu

Web address: www.roquecc.edu/computerscience

TTY: Oregon Telecom Relay Service, 711

Software Engineering Technology Transfer to Oregon Tech

Associate of Science

About the Program

This Associate of Science (AS) degree is based on a signed articulation agreement with Oregon Tech (OT). The degree transfers directly into the bachelor's degree program at Oregon Tech in software engineering technology. Students must work closely with advisors in their areas of interest to ensure electives are appropriate. The curriculum allows for 35 core credits within the major area. By completing all appropriate credits (including electives), students will fulfill required lower division coursework for transfer to OT.

Students must work closely with their advisors to ensure transferability of this program. If students transfer before completing this degree or transfer in a major not covered by prior agreements, courses will be evaluated individually toward the transfer requirements of the college of their choice. Students are advised to obtain written approval from Oregon Tech to guarantee their catalog of transfer for three years.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. The program learning outcomes for the Software Engineering Technology Transfer to Oregon Tech are:

Demonstrate the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities.

Ability to apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge.

Ability to identify, analyze, and solve narrowly defined technology problems.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate Department Chair before being accepted toward core requirements.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C-" or better. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade. Students should be aware that Oregon Tech requires a grade of "B" in CS 162U and CS 234U for transfer.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90-93

Program email address: ComputerScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- CIS 120 - Concepts in Computing I **2 Credit(s)**
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 2-6

Fall

Check in with Advisor

- ECON 201Z - Principles of Microeconomics **4 Credit(s)** or ECON 202Z
- MTH 111Z - Precalculus I - Functions **4 Credit(s)**
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 16

Winter

- COMM 225 - Small Group Communication **4 Credit(s)**
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)**
- PSY 202Z - Introduction to Psychology II **4 Credit(s)**
- WR 227Z - Technical Writing **4 Credit(s)**

Term Credits: 16

Spring

- CIS 145 - Introduction to Hardware - Software **5 Credit(s)**
- COMM 111Z - Public Speaking **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)** or approved Humanities transfer course (credits vary)
- REL 201 - World Religions **4 Credit(s)** or approved Humanities transfer course (credits vary)

Term Credits: 17

Fall

- CS 161U - Computer Science I - C++ **4 Credit(s)** fall term only
- MTH 251Z - Differential Calculus **4 Credit(s)** fall at RWC; fall/winter at RVC
- PH 211 - General Physics - Calculus I **4 Credit(s)** fall term only
- PH 211L - General Physics - Calculus I Lab **1 Credit(s)** fall term only

Term Credits: 13

Winter

- CS 162U - Computer Science II - C++ **4 Credit(s)** winter term only
- MTH 252Z - Integral Calculus **4 Credit(s)** winter at RWC; winter/spring at RVC
- PH 212 - General Physics - Calculus II **4 Credit(s)** winter term only
- PH 212L - General Physics - Calculus II Lab **1 Credit(s)** winter term only

Term Credits: 13

Spring

- CS 234U - Object Oriented Programming in C++ **4 Credit(s)** spring term only
- ENG 104Z - Introduction to Fiction **4 Credit(s)** or approved Humanities transfer course (credits vary by course)
- PH 213 - General Physics - Calculus III **4 Credit(s)** spring term only
- PH 213L - General Physics - Calculus III Lab **1 Credit(s)** spring term only

Term Credits: 13

Summer

- MTH 254 - Calculus IV - Vector Calculus **5 Credit(s)**

Term Credits: 5

Humanities Electives

(Complete three courses, 9-12 credits, from the following list. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Oregon Tech Humanities Electives

- ART 115 - Basic Design - Composition **3 Credit(s) ***
- ART 116 - Basic Design - Color Theory **3 Credit(s) ***
- ART 131 - Introduction to Drawing - Value **3 Credit(s) ***
- ART 132 - Introduction to Drawing - Line **3 Credit(s) ***
- ART 133 - Intro to Drawing - Mixed Media **3 Credit(s) ***
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- ART 234 - Figure Drawing I **3 Credit(s) ***
- ART 235 - Figure Drawing II **3 Credit(s) ***
- ART 236 - Figure Drawing III **3 Credit(s) ***
- ART 237 - Illustration Black and White Media **3 Credit(s) ***
- ART 238 - Illustration - Color Media **3 Credit(s) ***
- ART 239 - Illustration - Perspective **3 Credit(s) ***
- ART 281 - Painting I **3 Credit(s) ***
- ART 282 - Painting II **3 Credit(s) ***
- ART 283 - Painting III **3 Credit(s) ***
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**

- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- MUS 101 - Music Fundamentals **3 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 111 - Music Theory I **3 Credit(s)**
- MUS 112 - Music Theory II **3 Credit(s)**
- MUS 113 - Music Theory III **3 Credit(s)**
- MUS 114 - Aural Skills I **1 Credit(s)**
- MUS 115 - Aural Skills II **1 Credit(s)**
- MUS 116 - Aural Skills III **1 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)**
- MUS 211 - Music Theory IV **3 Credit(s)**

- MUS 212 - Music Theory V **3 Credit(s)**
- MUS 213 - Music Theory VI **3 Credit(s)**
- MUS 224 - Aural Skills IV **1 Credit(s)**
- MUS 225 - Aural Skills V **1 Credit(s)**
- MUS 226 - Aural Skills VI **1 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- PHL 103 - Critical Reasoning **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**

For more information, contact the Computer Science Department:

Phone: 541-956-7500

Email: ComputerScienceInfo@roguecc.edu

Web address: www.roguecc.edu/computerscience

TTY: Oregon Telecom Relay Service, 711

Computer Science - Associate of Science Oregon Transfer

About the Program

The statewide Associate of Science Oregon Transfer degree in Computer Science is designed for students transferring to baccalaureate degree programs in computer science or software engineering. Those completing the ASOT - Computer Science degree are assured junior level standing for registration purposes and will have met the lower division general education requirements of any institution in the Oregon public university system. Students should be aware that if they transfer before completing this degree, courses will be evaluated individually toward the general education requirements of the college of their choice. Students should use the ASOT-Computer Science university-specific degree requirements guide for specific transfer requirements for individual schools.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. The program learning outcomes for the Associate of Science Oregon Transfer - Computer Science are:

Demonstrate the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities.

Ability to apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge.

Ability to identify, analyze, and solve narrowly defined technology problems.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Computer Science Department Chair's approval. In order to ensure coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward course requirements.

Graduation Requirements

Students must complete a minimum of 90 term credits of lower division collegiate courses with a minimum grade of "C-" or better. Students must have a minimum cumulative GPA of 2.0 at the time the ASOT-Computer Science is awarded.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate classes in any given term. When transferring to a four-year Oregon state college or university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language
2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. Additionally, if students intend to complete a Bachelor of Arts (BA) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Completing the first year of the college language sequence in terms 4-6 at RCC sets students up for the second-year sequence when they transfer. Students should inquire with their intended receiving institution for world language requirements.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note, some prerequisites may be required for graduation. Please consult with an advisor regularly as you complete your transfer degree.

Total Program Credits: 90

Program email address: ComputerScienceInfo@rogucecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- CIS 120 - Concepts in Computing I **2 Credit(s)**
- MTH 111Z - Precalculus I - Functions **4 Credit(s)** or designated placement
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** (and WR115Q as required based on placement), or designated placement

Prerequisite Credits: 2-14

Fall

Check in with Advisor

- WR 121Z - Composition I **4 Credit(s)** ¹
- MTH 251Z - Differential Calculus **4 Credit(s)**
- PH 201 - General Physics I **4 Credit(s)** ² or approved Science transfer course
- PH 201L - General Physics I Lab **1 Credit(s)** ² or approved Science transfer course

Term Credits: 13

Winter

- WR 122Z - Composition II **4 Credit(s)**¹ or WR 227Z
- MTH 252Z - Integral Calculus **4 Credit(s)**
- PH 202 - General Physics II **4 Credit(s)**² or approved Science transfer course
- PH 202L - General Physics II Lab **1 Credit(s)**² or approved Science transfer course
- PSY 101 - Psychology of Human Relations **3 Credit(s)** or College-level course

Term Credits: 16

Spring

- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 115¹, or COMM 218Z
- PH 203 - General Physics III **4 Credit(s)**² or approved Science transfer course
- PH 203L - General Physics III Lab **1 Credit(s)**² or approved Science transfer course
- CS 160 - Introduction to Computer Science **4 Credit(s)** fall/spring term only
- PSY 201Z - Introduction to Psychology I **4 Credit(s)** or approved Social Science transfer course

Term Credits: 17

Fall

Check in with Advisor

- ART 115 - Basic Design - Composition **3 Credit(s)** or approved Humanities transfer course
- CIS 125DB - Advanced Applications - Access **3 Credit(s)** or College-level course
- CS 161U - Computer Science I - C++ **4 Credit(s)** fall term only
- PSY 202Z - Introduction to Psychology II **4 Credit(s)** or approved Social Science transfer course

Term Credits: 14

Winter

- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**³ or approved Humanities transfer course
- CS 133C - Programming Using C Sharp **4 Credit(s)** (CS 133C winter term only) or College-level course
- CS 162U - Computer Science II - C++ **4 Credit(s)** winter term only

- ECON 201Z - Principles of Microeconomics **4 Credit(s)** or approved Social Science transfer course

Term Credits: 16

Spring

- CS 260 - Data Structures I **4 Credit(s)** spring term only
- CS 234U - Object Oriented Programming in C++ **4 Credit(s)** (CS 234U spring term only) or College-level course
- MUS 208 - Film Music **3 Credit(s)** or approved Humanities transfer course
- HE 250 - Personal Health **3 Credit(s)** or approved Fitness/Health/PE course(s) 3 credits total

Term Credits: 14

Distribution Requirements

Fitness/Health/Physical Education

Minimum one or more courses totaling at least 3 credits.

- HE 112 - Emergency First Aid **1 Credit(s)**
- HE 208 - HIV and Infectious Diseases **1 Credit(s)**
- HE 250 - Personal Health **3 Credit(s)**
- HE 252 - First Aid - CPR **3 Credit(s)**
- HE 253 - Wilderness First Aid **3 Credit(s)**
- HE 261 - CPR - Basic Life Support Provider **1 Credit(s)**
- HPE 295 - Health and Fitness for Life **3 Credit(s)**
- PE 185 - Activity Courses **1-3 Credit(s)**
- PE 291 - Red Cross Lifeguard Training **2 Credit(s)**

Humanities 9-12

Choose three courses from at least two disciplines/prefixes. Courses must be at least 3 credits each and exclude first-year foreign language courses; second-year foreign language is acceptable.

Social Science 12-16

Complete four courses from at least two disciplines/prefixes. Courses must be at least 3 credits each. See www.roguecc.edu/cs and a computer science advisor for university-specific transfer requirements.

Science 12-15

Complete three biological and/or physical science laboratory courses from at least two disciplines/prefixes. ²

Electives

Complete a sufficient number of college-level (numbered 100 and above) courses to meet the total degree requirement of at least 90 credits. Students should use the ASOT-CS university-specific degree requirements guide to determine elective requirements for the transfer institution. A maximum of 12 career and technical credits may be used toward this degree. Note: WR 115 Introduction to Expository Writing may be used as elective credit if taken summer term 2000 or after and completed with a letter grade of "C-" or better.

Notes:

¹ Students who took writing classes of 3 credits each must have WR121, WR122 or WR227. Students taking classes of 4 credits each must take WR 121Z and either WR 122Z or WR 227Z (A total of 8 credits is required.)

² Some schools require physics as the laboratory science chosen. It is recommended that students contact the specific school early in the first year of the program or use the ASOT-CS university-specific degree requirements guide to determine any additional science requirements and procedures for admission to a specific school or program.

³ Meets cultural literacy criteria (one course required).

For more information, contact the Computer Science Department:

Phone: 541-956-7500

Email: ComputerScienceInfo@roguecc.edu

Web address: www.roguecc.edu/computerscience

TTY: Oregon Telecom Relay Service, 711

Associate of Arts Oregon Transfer - Math Interest

About the Program

The Associate of Arts Oregon Transfer degree is a two-year program designed for students who intend to transfer to an Oregon university. Completion of the degree will satisfy lower division general education requirements and ensures junior standing at a university for registration purposes. Additionally, with careful planning, students may satisfy many of the lower division courses required in their academic majors.

Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the general education requirements of the school of their choice. Students are encouraged to work closely with their academic advisors to maximize the benefits of this degree.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to fulfill AAOT degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Discipline studies-approved coursework in humanities, social science, and science/math/computer science transferred from another Oregon community college will be accepted if students have a declared AAOT major at RCC and received a "C-" or better grade in the course(s). College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

Students must complete a minimum of 90 college-level credits with a minimum grade of "C-" or better, including at least one course designated as meeting cultural literacy criteria. Students must also have a 2.0 cumulative GPA at the time the AAOT is awarded.

The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AAOT framework. See the AAOT program map for full degree requirements. It is strongly recommended that a student also consult with the transfer college of choice regarding specific prerequisites since requirements for a math major vary at each university.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate

classes in any given term. When transferring to a public four-year Oregon university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language
2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. Additionally, if students intend to complete a Bachelor of Arts (B.A.) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Completing the first year of the college language sequence in terms 3-6 at RCC sets students up for the second-year sequence when they transfer. Students should inquire with their intended receiving institution for world language requirements.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult with an advisor regularly as you complete your transfer degree.

Total Program Credits: 90

Program email address: MathInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 95 - Intermediate Algebra **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Fall

Check in with Advisor

- MTH 111Z - Precalculus I - Functions **4 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)**
- HE 252 - First Aid - CPR **3 Credit(s)** or approved AAOT Fitness/Health/PE course
- PHL 101 - Philosophical Problems **4 Credit(s)** or approved AAOT Humanities transfer course

Term Credits: 15

Winter

- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)**

- WR 122Z - Composition II **4 Credit(s)** or WR 227Z
- PHL 102 - Ethics **4 Credit(s)** or approved AAOT Humanities transfer course
- ECON 201Z - Principles of Microeconomics **4 Credit(s)** or approved AAOT Social Science transfer course

Term Credits: 16

Spring

- STAT 243Z - Elementary Statistics I **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)** ¹ or COMM 115 ¹ or approved AAOT Humanities transfer course
- ECON 202Z - Principles of Macroeconomics **4 Credit(s)** or approved AAOT Social Science transfer course
- PS 201 - US Gov Institutions and Policy **4 Credit(s)** or approved AAOT Social Science transfer course

Term Credits: 16

Fall

Check in with Advisor

- MTH 251Z - Differential Calculus **4 Credit(s)** fall at RWC; fall/winter at RVC
- PH 211 - General Physics - Calculus I **4 Credit(s)** or approved AAOT Lab Science transfer course
- PH 211L - General Physics - Calculus I Lab **1 Credit(s)** or approved AAOT Lab Science transfer course
- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 218Z

Term Credits: 14

Winter

- MTH 252Z - Integral Calculus **4 Credit(s)** winter at RWC; winter/spring at RVC
- PH 212 - General Physics - Calculus II **4 Credit(s)** or approved AAOT Lab Science transfer course
- PH 212L - General Physics - Calculus II Lab **1 Credit(s)** or approved AAOT Lab Science transfer course
- PS 202 - US Gov Ideologies and Engagement **4 Credit(s)** or GEOG 110 ¹ or approved AAOT Social Science transfer course

Term Credits: 14

Spring

- MTH 253Z - Calculus - Sequences and Series **4 Credit(s)** spring term only
- MTH 261 - Linear Algebra **5 Credit(s)** spring term only
- PH 213 - General Physics - Calculus III **4 Credit(s)** or approved AAOT Lab Science transfer course
- PH 213L - General Physics - Calculus III Lab **1 Credit(s)** or approved AAOT Lab Science transfer course

Term Credits: 15

Summer

MTH 254, MTH 256 offered summer term only. Strongly suggested course to ensure prerequisites are met to begin junior level math classes.

Additional Math Options. Please Speak with an Advisor.

- MTH 211 - Fundamentals of Elementary Math I **4 Credit(s)** * Elective
- MTH 212 - Fundamentals of Elementary Math II **4 Credit(s)** * Elective
- MTH 213 - Fundamentals of Elementary Math III **4 Credit(s)** * Elective

Notes:

¹ Meets cultural literacy criteria (one course required).

* For students interested in teaching.

General AAOT Requirements:

- Three courses required in the Humanities category from at least two disciplines (at least 2 prefixes).
- Four courses required in Social Science category, from at least two disciplines (at least 2 prefixes).
- Four courses required in Science/Math/Computer Science from two disciplines. Three must be lab science courses.
- Students who took writing classes of 3 credits each must have WR121, WR122 and either WR123 or WR227. Students taking classes of 4 credits each must take WR 121Z and either WR 122Z or WR 227Z
- Fitness/Health/Physical Education (minimum of one or more courses totaling at least 3 credits).
- General elective(s) as needed to meet minimum program total requirement of 90 credits.

For more information, contact the Mathematics Department:

Phone: 541-956-7500

Email: MathInfo@roquecc.edu

Web address: www.roquecc.edu/mathematics

TTY: Oregon Telecom Relay Service, 711

Biology

Associate of Science Transfer

About the Program

This Major Transfer Map Curriculum Articulation Policy (MTM CAP) outlines specific course requirements for students at any participating Oregon community college who plan to transfer to a participating four-year public university and earn a Bachelor of Science in Biology. A completed Core Transfer Map will transfer to any of the 7 Oregon Public Universities (OPU). A complete MTM-CAP will give students all guarantees listed in this MTM CAP at the participating OPUs listed in this agreement. The MTM CAP is intended for students who know they want to transfer and earn a Bachelor of Science in Biology, but who are unsure of their intended transfer destination. Students should work with an advisor to ensure they fulfill the requirements of this major transfer map. Students who are certain of both their major and their intended transfer destination should consult an advisor for information on an existing specific articulation agreement or degree map that will prescribe their course requirements.

If students complete a Major Transfer Map and meet public university admissions requirements, they are guaranteed transfer to a participating Oregon four-year public university with junior standing, and their coursework will count toward a bachelor's degree in that specific major. On this page, educators and partners can find the current list of approved MTMs, as well as information guiding the ongoing implementation of MTMs in Oregon.

For additional information, refer to the Higher Education Coordinating Commission Transfer Map website.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Upon completion of the AST in Biology, students will be able to:

Apply the process of science to biological phenomena.

Use quantitative reasoning to present evidence-based arguments.

Communicate an emerging understanding of the impact of scientific discovery and research on society.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Science Department Chair's approval. In order to ensure coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward course requirements.

Graduation Requirements

Students must complete a minimum of 90 term credits of lower division collegiate courses with a minimum grade of "C-" or better. Students must have a minimum cumulative GPA of 2.0 at the time the Biology Associate of Science Transfer is awarded. Students should also refer to the Higher Education Coordinating Commission Transfer Map website for additional course GPA requirements that may be applicable at their transfer institution.

Core Transfer Requirements

Category	Course	Credits
Writing - 1st course	WR 121Z	4
Mathematics - 1st course	MTH 111Z or higher (includes STAT 243Z)	4-5
Arts & Letters - 1st course	Select from AAOT course list	3-4
Arts & Letters - 2nd course	Select from AAOT course list; must have different prefixes	3-4
Natural Sciences - 1st course	BI 221Z	5
Natural Sciences - 2nd course	CHEM 221Z and CHEM 227Z	5
Social Sciences - 1st course	Select from AAOT course list	3-4
Social Sciences - 2nd course	Select from AAOT course list; must have different prefixes	3-4

At least 1 Core Transfer Requirement course must also satisfy Cultural Literacy outcomes for AAOT.

Core Transfer Requirement Total: 30-35

Biology Major Courses

Category	Course	Credits
Biology	BI 222Z - BI 223Z	10
Chemistry	CHEM 222Z - CHEM 223Z (& labs CHEM 228Z - CHEM 229Z)	10
Math	MTH 112Z or higher	4-5
Physics	PH 201, PH 202, PH 203 or PH 211, PH 212, PH 213	12-15

Biology Requirements Total: 36-40

Additional General Education Course(s)

Category	Course	Credits
Writing	WR 227Z	4

Additional General Education Total: 4

Additional Courses to Reach 90 Credits

See an advisor for recommended courses.

At this point [above = 70-79 credits], it is recommended students pursue these options:

1. Take courses that will apply to **the major** at the Oregon public university of their choice (work with an advisor):
 - Students considering a pre-professional degree should take organic chemistry, if possible, prior to transferring. Talk with an advisor about appropriate options.
 - The MTM contains the minimum math required in the Biology major; additional math may be required by the transfer university and should be taken before transferring, if possible. See post-transfer crosswalk for additional math requirements.
2. Take courses that will apply to general education or the minor of choice, that will transfer to the Oregon public university of their choice (work with an advisor).
3. Take electives to reach 90 credits, that will transfer to the Oregon public university of their choice (work with an advisor).

MTM Total 90 credits

For more information, contact the Science Department:

Phone: 541-956-7500

Email: ScienceInfo@roquecc.edu

Web address: www.roquecc.edu/science

TTY: Oregon Telecom Relay Service, 711

Computer Science

Associate of Science Transfer

About the Program

This Major Transfer Map Curriculum Articulation Policy (MTM CAP) outlines specific course requirements for students at any participating Oregon community college who plan to transfer to a participating four-year public university and earn a Bachelor of Science in Computer Science. A completed Core Transfer Map will transfer to any of the 7 Oregon Public Universities (OPU). A complete MTM-CAP will give students all guarantees listed in this MTM CAP at the participating OPUs listed in this agreement. The MTM CAP is intended for students who know they want to transfer and earn a Bachelor of Science in Computer Science, but who are unsure of their intended transfer destination. Students should work with an advisor to ensure they fulfill the requirements of this major transfer map. Students who are certain of both their major and their intended transfer destination should consult an advisor for information on an existing specific articulation agreement or degree map that will prescribe their course requirements. **There is a decision point at the end of the first year of community college studies, at which point a student must decide between transfer to the OSU/PSU/UO cluster or the EOU/SOU/WOU cluster of university degree programs. More about these two pathways is included below.**

If students complete a Major Transfer Map and meet public university admissions requirements, they are guaranteed transfer to a participating Oregon four-year public university with junior standing, and their coursework will count toward a bachelor's degree in that specific major. On this page, educators and partners can find the current list of approved MTMs, as well as information guiding the ongoing implementation of MTMs in Oregon.

For additional information, refer to the Higher Education Coordinating Commission Transfer Map website.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. The program learning outcomes for the Computer Science Associate of Science Transfer are:

Develop software using both structured and object-oriented paradigms that meets the requirements of a written specification.

Explain the software development lifecycle and the specific tools and processes used to create software.

Design, analyze, and implement algorithms to solve computational problems using various data structures as problem-solving tools. These data structures must include arrays, stacks, queues, linked lists, trees, and hash tables.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Computer Science Department Chair's approval. In order to ensure coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward course requirements.

Graduation Requirements

Students must complete a minimum of 90 term credits of lower division collegiate courses with a minimum grade of "C-" or better. Students must have a minimum cumulative GPA of 2.0 at the time the Computer Science Associate of Science Transfer is awarded. Students should also refer to the Higher Education Coordinating Commission Transfer Map website for additional course GPA requirements that may be applicable at their transfer institution.

Core Transfer Requirements

See an advisor for recommended courses before your first term.

Category	Course	Credits
Writing - 1st course	WR 121Z	4
Arts & Letters - 1st course	Select from AAOT course list	3-4
Arts & Letters - 2nd course	Select from AAOT course list	3-4
Social Sciences - 1st course	Select from AAOT course list	3-4
Social Sciences - 2nd course	Select from AAOT course list	3-4
Natural Sciences - two courses	Select two lab science courses. This selection should occur after deciding between OSU/PSU/UO and EOU/SOU/WOU clusters.	8-10
	OSU/PSU/UO The first TWO courses from ONE of the following sequences, together with the associated lab course sections: • PH 201, PH 202, PH 203 (General Physics) • PH 211, PH 212, PH 213 (General Physics with Calculus) • CHEM 221Z, CHEM 222Z, CHEM 223Z (Chemistry)	

	- CHEM 221Z, BI 221Z, BI 222Z (Chemistry and Biology) - BI 221Z, BI 222Z, BI 223Z (Biology) - G201, G202, G203 (Geology)	
	EOU/SOU/WOU Any two lab science courses.	
Mathematics - two courses	Select from MTH 111Z, MTH 112Z, MTH 251Z, MTH 252Z	8

At least 1 Core Transfer Requirement course must also satisfy Cultural Literacy outcomes for AAOT.

Core Transfer Requirement Total: 32-38

Additional General Education Courses

See an advisor for recommended courses.

Category	EOU/SOU/WOU Course	Credits	OSU/PSU/UO Course	Credits
Writing	WR 122Z	4	WR 227Z	4
Oral Communication	COMM 111Z	4	COMM 111Z	4

Additional General Education Courses: 8

Computer Science Courses

See an advisor for recommended courses.

Category	EOU/SOU/WOU Course	Credits	OSU/PSU/UO Course	Credits
Computer Science	CS 160, CS161, CS162, CS 260	16	CS 160, CS161, CS162, CS 260, CS205 (Note: RCC does not offer CS 205)	20
Mathematics	MTH 251Z, MTH 252Z (if not completed as part of Core Transfer Map)	8	MTH 251Z, MTH 252Z (if not completed as part of Core Transfer Map)	8

Discrete Math	-----	---	MTH231, MTH232 or CS250, CS251 (Note: RCC does not offer MTH231, MTH232 or CS250, CS251)	8
Natural Sciences	-----	---	Complete Sequence done under CTM (the third class listed for each sequence.)	4-5
	Computer Science Major Coursework Total	30-32	Computer Science Major Coursework Total	46-49
Electives	Elective courses to 90 credits	20-29	Elective courses to 90 credits	3-13

Additional Courses to Reach 90 Credits

See an Advisor for recommended courses.

At this point [above = 47-78 credits], it is recommended students pursue these options:

1. Take courses that will apply to general education or the major that will transfer to the Oregon public university of their choice.
2. Take courses that will apply to a minor at the Oregon public university of their choice.
3. Take electives to reach 90 credits that will transfer to the Oregon public university of their choice (see Appendix B for university-specific recommendations).

MTM Total 90 credits

For more information, contact the Computer Science Department

Phone: 541-956-7500

Email: ComputerScienceInfo@roquecc.edu

Web address: www.roquecc.edu/computerscience

TTY: Oregon Telecom Relay Service, 711

For additional information go to the Higher Education Coordinating Commission website.

Social and Behavioral Science, Education Pathway

Early Childhood Education - Basic

Career Pathway Certificate

About the Program

The Early Childhood Education program prepares students to work with young children from birth through 8 years of age and their families in a variety of settings including child-care centers, family child-care, preschools, Head Start, school age programs, home visiting, and parent education. It is planned to accommodate both full- and part-time students, including those currently employed in the field.

The program has as its foundation the one-term basic certificate which also fulfills the formal training requirement for the Child Development Associate (CDA) credential. The basic certificate prepares students to work in entry-level positions in child-care programs, Head Start, or other early childhood settings. Students may choose to complete the CDA assessment process to achieve the CDA credential. The early childhood basic certificate is the first step in the Early Childhood Education career pathway leading to the intermediate certificate, the one-year certificate, and the AAS degree.

For the corresponding relationship of the Early Childhood Education coursework to the *Oregon Registry: Pathways to Professional Recognition in Childhood Care and Education*, visit the Oregon Center for Career Development in Childhood Care and Education and click on Rogue Community College.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Early Childhood Education Basic Career Pathway Certificate are:

Identify stages of child development for ages birth through age 8, across developmental domains.

Describe developmentally and culturally appropriate curriculum and teaching practices for young children.

Explain the importance of building family and community partnerships to support successful outcomes for children.

Examine one's role as a professional in field of education.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Practicum placement and classroom observations will require proof of measles immunization status, RCC Student ID, and may require proof of COVID vaccination status or criminal history background check. More information is available from the Early Childhood and Elementary Education Department.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Early Childhood and Elementary Education Department Chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now student must meet with the department chair to determine placement.

Credits earned in the successful completion of Career Pathways Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Required Program Courses

(Courses may be taken over multiple terms. Not all courses offered every term.)

- ECE 125 - Early Childhood Development **3 Credit(s)**
- ECE 126 - ECE Best Practices **3 Credit(s)**
- ECE 135 - Applied Child Development **3 Credit(s)**
- ECE 136 - ECE Professional Overview **3 Credit(s)**
- ED 170 - Introductory Practicum **Var. (1-2) Credit(s)**

Total Program Credits: 13

For more information, contact the Early Childhood and Elementary Education Department:

Phone: 541-956-7500

Email: ECEInfo@roquecc.edu

Web address: www.roquecc.edu/ecee

TTY: Oregon Telecom Relay Service, 711

Early Childhood Education - Intermediate

Career Pathway Certificate

About the Program

The Early Childhood Education three-term program prepares students to work with young children from birth through 8 years of age and their families in a variety of settings including child-care centers, family child-care, preschools, Head Start, school age programs, home visiting, and parent education. It is planned to accommodate both full- and part-time students, including those currently employed in the field.

The program has as its foundation the basic certificate which also fulfills the formal training requirement for the Child Development Associate (CDA) credential. The three-term intermediate certificate is the second step on the career pathway leading to the one-year certificate and the AAS degree. The intermediate certificate prepares students to work as teacher assistants in child-care programs, Head Start, or other early childhood settings.

For the corresponding relationship of the early childhood education coursework to the *Oregon Registry: Pathways to Professional Recognition in Childhood Care and Education*, visit the Oregon Center for Career Development in Childhood Care and Education and click on Rogue Community College.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Early Childhood Education (Intermediate) Career Pathway Certificate are:

Identify stages of child development for ages birth through age 8, across developmental domains.

Describe developmentally and culturally appropriate curriculum and teaching practices for young children.

Explain the importance of building family and community partnerships to support successful outcomes for children.

Examine one's role as a professional in field of education.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Practicum placement and classroom observations will require proof of measles immunization status, RCC Student ID, and may require proof of COVID vaccination status or criminal history background check. More information is available from the Early Childhood and Elementary Education Department.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Early Childhood and Elementary Education Department chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with the department chair to determine placement.

Credits earned in the successful completion of Career Pathways Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 32

Program email address: ECEInfo@roquecc.edu

Fall

Check in with Advisor

- ECE 125 - Early Childhood Development **3 Credit(s)**
- ECE 126 - ECE Best Practices **3 Credit(s)**
- ECE 135 - Applied Child Development **3 Credit(s)**
- ECE 136 - ECE Professional Overview **3 Credit(s)**

Term Credits: 12

Winter

- ECE 151 - Guiding Children in Group Settings **3 Credit(s)**
- ECE 154 - Children's Literature and Literacy **3 Credit(s)**
- ECE 163 - Preschool - Primary Development **3 Credit(s)**
- ED 170 - Introductory Practicum **Var. (1-2) Credit(s)** Total of 2 credits for completion (1 credit/term)
- ECE 175 - Dev Appropriate Practices **3 Credit(s)** Winter term only

Term Credits: 13

Spring

- ECE 161 - Infant - Toddler Development **3 Credit(s)** Spring term only
- ECE 152 - Fostering Creativity **3 Credit(s)** Spring term only
- ED 170 - Introductory Practicum **Var. (1-2) Credit(s)** Total of 2 credits for completion (1 credit/term)

Term Credits: 7

For more information, contact the Early Childhood and Elementary Education Department:

Phone: 541-956-7500

Email: ECEInfo@roguecc.edu

Web address: www.roguecc.edu/ecee

TTY: Oregon Telecom Relay Service, 711

Family Support Services

Career Pathway Certificate

About the Program

The Family Support Services four-term program is designed to provide pre-employment training and education for entry-level family support workers through classroom studies and practical training. Graduates may serve families as family advocates, home visitors, parent educators, or family outreach workers, among other occupations. Coursework for this program spans the disciplines of human services and early childhood development to provide a strong base for work with children and families in a variety of settings. It is designed to accommodate both full- and part-time students and those currently employed in the field. Embedded within the program is training which meets requirements for community health worker certification through the Oregon Health Authority.

Some courses in this program may not transfer to other institutions. Students intending to transfer should seek advisor assistance to determine transferability.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Family Support Services Career Pathway Certificate are:

Describe trauma-informed strategies to build positive reciprocal relationships with children and families.

Identify strategies to embed opportunities for targeted learning across developmental domains and in the child's natural environment, for young children with developmentally diverse needs.

Describe strategies that build and sustain family and community partnerships to support successful outcomes for children.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Practicum placement and classroom observations will require proof of measles immunization status, RCC Student ID, and may require proof of COVID vaccination status or criminal history background check. More information is available from the Early Childhood and Elementary Education Department.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Early Childhood and Elementary Education Department Chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core

requirements. Each College Now credit student must meet with the Early Childhood and Elementary Education Department Chair to determine placement.

Graduation Requirements

To graduate, students must complete all courses in this program with a grade of "C-" or better. Certain prerequisite courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 32-34

Program email address: FamilySupportServicesInfo@roquecc.edu

Fall

Check in with Advisor

- ECE 125 - Early Childhood Development **3 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term Credits: 9-10

Winter

- HS 155 - Interviewing Theory and Techniques **4 Credit(s)** winter term only
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**

Term Credits: 8

Spring

- ECE 275 - Equity- Diversity- Inclusion in ED **3 Credit(s)** or SOC 213
- HS 158 - Trauma Informed Theory and Practice **3 Credit(s)** spring term only

Term Credits: 6

Fall

Check in with Advisor

- ECE 258 - Family Education and Support **3 Credit(s)** fall term only
- HS 200 - Child Abuse and Neglect **3 Credit(s)** fall term only
- HS 201 - Family Dynamics **3 Credit(s)** fall term only

Term Credits: 9

For more information, contact the Early Childhood and Elementary Education Department:

Phone: 541-956-7500

Email: FamilySupportServicesInfo@roquecc.edu

Web address: www.roquecc.edu/ecee

TTY: Oregon Telecom Relay Service, 711

Addiction Studies

Certificate of Completion

About the Program

Addiction Studies is a three-term certificate program. It is designed for individuals who need coursework to complete the educational requirements to become a Certified Alcohol and Drug Counselor (CADC). In addition to the educational requirements, CADC certification requires 1,000 hours in the field and a passing score on the CADC exam. CADC status is a basic requirement for employment in the addictions field. Because some courses are offered only once per year, students may not be able to complete all requirements in a calendar year.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Addiction Studies Certificate of Completion are:

Apply ethical principles and demonstrate professional behavior in interactions with clients and colleagues.

Establish therapeutic rapport and practice active listening.

Function effectively to provide coordinated and client-centered care.

Entry Requirements

The Addiction Studies Certificate is a professional development curriculum requiring attendance at an Information Session and completion of an online application. For more details on Information Sessions, visit the Human Services website at www.roguecc.edu/humanservices.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Human Services Department Coordinator's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with a Human Services Department advisor to determine placement.

Graduation Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive their certificates. **For admission to the SOU Human Services program, RCC students must earn a minimum grade of "C" in Human Services, Psychology and other core courses.**

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some

prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 24-25

Program email address: HumanServicesInfo@roguecc.edu

Fall

Check in with Advisor

- CIS 120 - Concepts in Computing I **2 Credit(s)** (check in with advisor before registering for CIS 120)
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term Credits: 9-10

Winter

Check in with Advisor

- HS 152 - Stress Management **1 Credit(s)**
- HS 155 - Interviewing Theory and Techniques **4 Credit(s)** winter term only
- HS 175 - Ethics for Counselors **1 Credit(s)** winter term only
- HS 260 - Group Counseling **4 Credit(s)** winter term only

Term Credits: 10

Spring

Check in with Advisor

- HE 208 - HIV and Infectious Diseases **1 Credit(s)** fall/spring term only
- HS 115 - Principles of Client Record Mgmt **1 Credit(s)** spring term only
- HS 202 - Substance Abuse Counseling **3 Credit(s)** spring term only

Term Credits: 5

For more information, contact the Human Services Department:

Phone: 541-956-7500

Email: HumanServicesInfo@roguecc.edu

Web address: www.roguecc.edu/humanservices

TTY: Oregon Telecom Relay Service, 711

Early Childhood Education

Certificate of Completion

About the Program

The Early Childhood Education four-term certificate program prepares students to work with young children from birth through 8 years of age and their families in a variety of settings including child-care centers, family child-care, preschools, Head Start, school age programs, home visiting, and parent education. It is planned to accommodate both full- and part-time students, including those currently employed in the field.

The program has as its basis preparation for the Child Development Associate (CDA) credential. Students may choose to complete the CDA assessment process and be eligible for entry-level jobs at that point. The CDA preparation courses serve as the foundation of the core coursework for the Early Childhood Education certificate, a one-year certificate which prepares students to work as teacher assistants or teachers in child-care programs, Head Start, or other early childhood settings.

For the corresponding relationship of the Early Childhood Education coursework to the *Oregon Registry: Pathways to Professional Recognition in Childhood Care and Education*, visit the Oregon Center for Career Development in Childhood Care and Education and click on Rogue Community College.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Early Childhood Education Certificate of Completion are:

Evaluate stages of child development for ages birth through age 8, across developmental domains.

Design developmentally and culturally appropriate curriculum and teaching practices for young children.

Analyze strategies to build and sustain family and community partnerships to support successful outcomes for children.

Examine one's role as a professional in field of education.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Practicum placement and classroom observations will require proof of measles immunization status, RCC Student ID, and may require proof of COVID vaccination status or criminal history background check. More information is available from the Early Childhood and Elementary Education Department.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Early Childhood and Elementary Education Department Chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with the department chair to determine placement.

Credits earned in the successful completion of Career Pathways Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 51-52

Program email address: ECEInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement

Prerequisite Credits: 0-4

Fall

Check in with Advisor

- ECE 125 - Early Childhood Development **3 Credit(s)**
- ECE 126 - ECE Best Practices **3 Credit(s)**
- ECE 135 - Applied Child Development **3 Credit(s)**
- ECE 136 - ECE Professional Overview **3 Credit(s)**
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or WR 114 Expository Writing in Spanish, or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term Credits: 15-16

Winter

- ECE 154 - Children's Literature and Literacy **3 Credit(s)** winter term only
- ECE 163 - Preschool - Primary Development **3 Credit(s)**
- ED 170 - Introductory Practicum **Var. (1-2) Credit(s)** Total of 2 credits for completion (1 credit/term)
- ECE 175 - Dev Appropriate Practices **3 Credit(s)** winter term only
- MTH 102CT - Math for CTE Professionals **4 Credit(s)**¹ or MTH 60 or higher-level math

Term Credits: 14

Spring

- ECE 152 - Fostering Creativity **3 Credit(s)** spring term only
- ECE 161 - Infant - Toddler Development **3 Credit(s)** spring term only
- ED 170 - Introductory Practicum **Var. (1-2) Credit(s)** Total of 2 credits for completion (1 credit/term)
- ECE 246 - Family and School Engagement **3 Credit(s)** or ECE 258 (offered fall term)
- ECE 254 - Preschool Curriculum and Env **3 Credit(s)** or ECE 255; spring term only
- ECE 266 - Supporting Dual Language Learners **3 Credit(s)**

Term Credits: 16

Summer

Check in with Advisor

- ECE 151 - Guiding Children in Group Settings **3 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**

Term Credits: 6

Notes:

¹Or higher-level math as designated by placement or MTH 60 Fundamentals of Algebra I (MTH 105Z or higher recommended for transfer).

For more information, contact the Early Childhood and Elementary Education Department:

Phone: 541-956-7500

Email: ECEInfo@roquecc.edu

Web address: www.roquecc.edu/ecee

TTY: Oregon Telecom Relay Service, 711

Family Support Services

Certificate of Completion

About the Program

The Family Support Services four-term program is designed to provide pre-employment training and education for entry-level family support workers through classroom studies and practical training. Graduates may serve families as family advocates, home visitors, parent educators, or family outreach workers, among other occupations. Coursework for this program spans the disciplines of human services and early childhood development to provide a strong base for work with children and families in a variety of settings. It is designed to accommodate both full- and part-time students and those currently employed in the field. Embedded within the program is training which meets requirements for community health worker certification through the Oregon Health Authority.

Some courses in this program may not transfer to other institutions. Students intending to transfer should seek advisor assistance to determine transferability.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Family Support Services Certificate of Completion are:

Describe trauma-informed strategies to build positive reciprocal relationships with children and families.

Design strategies to embed opportunities for targeted learning across developmental domains and in the child's natural environment, for young children with developmentally diverse needs.

Analyze strategies that build and sustain family and community partnerships to support successful outcomes for children

Examine one's role as a professional in field of child and family services.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Practicum placement and classroom observations will require proof of measles immunization status, RCC Student ID, and may require proof of COVID vaccination status or criminal history background check. More information is available from the Early Childhood and Elementary Education Department.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Early Childhood and Elementary Education Department Chair's approval. In

order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with the Early Childhood and Elementary Education Department Chair to determine placement.

Graduation Requirements

To graduate, students must complete all courses in this program with a grade of "C-" or better. Certain prerequisite courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 52-54

Program email address: FamilySupportServicesInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement

Prerequisite Credits: 0-4

Fall

Check in with Advisor

- ECE 125 - Early Childhood Development **3 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term Credits: 13-14

Winter

- ECE 151 - Guiding Children in Group Settings **3 Credit(s)**
- ECE 265 - Children at Risk **3 Credit(s)**
- HS 155 - Interviewing Theory and Techniques **4 Credit(s)** winter term only
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**

Term Credits: 14

Spring

- ECE 275 - Equity- Diversity- Inclusion in ED **3 Credit(s)** or SOC 213
- HS 158 - Trauma Informed Theory and Practice **3 Credit(s)** spring term only
- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or higher-level math
- HS 261C - Human Services Practicum - Seminar **3 Credit(s)**

Term Credits: 13

Fall

Check in with Advisor

- ECE 245 - Social and Emotional Learning- ECE **3 Credit(s)** fall term only
- ECE 258 - Family Education and Support **3 Credit(s)** fall term only
- HS 200 - Child Abuse and Neglect **3 Credit(s)** fall term only
- HS 201 - Family Dynamics **3 Credit(s)** fall term only

Term Credits: 12

For more information, contact the Early Childhood and Elementary Education Department:

Phone: 541-956-7500

Email: FamilySupportServicesInfo@roquecc.edu

Web address: www.roquecc.edu/ecee

TTY: Oregon Telecom Relay Service, 711

Substance Abuse Counseling

Certificate of Completion

About the Program

The Substance Abuse Counseling Certificate is a three-term certificate program. It is designed for individuals to complete the educational requirements needed to become a Certified Alcohol and Drug Counselor (CADC). In addition to coursework, CADC certification requires 1,000 hours in the field and a passing score on the CADC exam. CADC status is a basic requirement for employment in the addictions field.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Substance Abuse Counseling Certificate of Completion are:

Apply ethical principles and demonstrate professional behavior in interactions with clients and colleagues.

Establish therapeutic rapport and practice active listening.

Function effectively to provide coordinated and client-centered care.

Entry Requirements

The Substance Abuse Counseling Certificate is a professional development curriculum requiring attendance at an Information Session and completion of an online application. For more details on Information Sessions, visit the Human Services website at www.roguecc.edu/humanservices.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Human Services Department Coordinator's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with a Human Services Department advisor to determine placement.

Graduation Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive their certificates.

Students completing the required credits in this program and passing the counseling skills competency requirement as demonstrated through a series of videotaped counseling interviews, will receive their certificates. Seven credits (231 hours) of documented practicum experience in an alcohol and drug treatment agency setting, supervised by a professional, is required. **For**

admission to the SOU Human Services program, RCC students must earn a minimum grade of "C" in Human Services, Psychology and other core courses.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 36-37

Program email address: HumanServicesInfo@roquecc.edu

Fall

- CIS 120 - Concepts in Computing I **2 Credit(s)**
- HS 210 - Motivational Interviewing **3 Credit(s)**
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- WR 115 - Introduction to Expository Writing **3 Credit(s)**
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Term Credits: 12-13

Winter

- HS 155 - Interviewing Theory and Techniques **4 Credit(s)**
- HS 175 - Ethics for Counselors **1 Credit(s)**
- HS 260 - Group Counseling **4 Credit(s)**
- HS 261C - Human Services Practicum - Seminar **3 Credit(s)**

Total Credits: 12

Spring

- HE 208 - HIV and Infectious Diseases **1 Credit(s)**
- HS 115 - Principles of Client Record Mgmt **1 Credit(s)**
- HS 158 - Trauma Informed Theory and Practice **3 Credit(s)**
- HS 202 - Substance Abuse Counseling **3 Credit(s)**
- HS 261D - Human Services Practicum - Seminar **4 Credit(s)**

Term Credits: 12

For more information, contact the Human Services Department:

Phone: 541-956-7500

Email: HumanServicesInfo@roquecc.edu

Web address: www.roquecc.edu/humanservices

TTY: Oregon Telecom Relay Service, 711

Early Childhood Education

Associate of Applied Science

About the Program

The Early Childhood Education (ECE) program prepares students to work with young children from birth through 8 years of age and their families in a variety of settings including child-care centers, family childcare, preschools, Head Start, school age programs, home visiting, and parent education. It is planned to accommodate both full- and part-time students, including those currently employed in the field.

The ECE program has as its basis preparation for the Child Development Associate (CDA) credential. Students may choose to complete the CDA assessment process and be eligible for entry-level jobs at that point. The CDA preparation courses serve as the foundation of the core coursework for the Early Childhood Education certificate, a one-year certificate which prepares students to work as teacher assistants or teachers in child-care programs, Head Start, or other early childhood settings.

The Associate of Applied Science (AAS) degree in Early Childhood Education is based on the Guidelines for Preparation of Early Childhood Professionals from the National Association for the Education of Young Children (NAEYC). It is a comprehensive program that incorporates the core coursework for the ECE certificate and qualifies a student to become a head teacher in a child-care facility licensed by the Oregon Child Care Division, a teacher in Head Start, or a home visitor, among other professional roles. Students will have a choice of specialty areas: infant/toddler, preschool, or family childcare, and will complete 192 supervised practicum hours as part of the curriculum. Some courses in the program may not transfer to other institutions. Students intending to transfer should seek advisor assistance to determine transferability.

For the corresponding relationship of the Early Childhood Education coursework to the *Oregon Registry: Pathways to Professional Recognition in Childhood Care and Education*, visit the Oregon Center for Career Development in Childhood Care and Education and click on Rogue Community College.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Early Childhood Education Associate of Applied Science are:

Evaluate stages of child development for ages birth through age 8, across developmental domains.

Design developmentally and culturally appropriate curriculum and teaching practices for young children.

Analyze strategies to build and sustain family and community partnerships to support successful outcomes for children.

Examine one's role as a professional in field of education.

Utilize screening and assessment tools to respond to children's developmental strengths and needs in curriculum planning.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Practicum placement and classroom observations will require proof of measles immunization status, RCC Student ID, and may require proof of COVID vaccination status or criminal history background check. More information is available from the Early Childhood and Elementary Education Department.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Early Childhood and Elementary Education Department chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with the department chair to determine placement.

Credits earned in the successful completion of Career Pathways Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students completing the required credits in this program with a grade of "C-" or better will receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade. Students will complete between 240 and 288 supervised practicum hours unless a waiver is granted for approved activities.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 92

Program email address: ECEInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or WR114 Expository Writing in Spanish, or higher-level writing course, or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-9

Fall

Check in with Advisor

- ECE 125 - Early Childhood Development **3 Credit(s)**
- ECE 126 - ECE Best Practices **3 Credit(s)** fall term only
- ECE 135 - Applied Child Development **3 Credit(s)**
- ECE 136 - ECE Professional Overview **3 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)** or

Term Credits: 16

Winter

- ECE 151 - Guiding Children in Group Settings **3 Credit(s)**
- ECE 154 - Children's Literature and Literacy **3 Credit(s)** winter term only
- ECE 163 - Preschool - Primary Development **3 Credit(s)**
- ED 170 - Introductory Practicum **Var. (1-2) Credit(s)** Total of 2 credits for completion (1 credit/term)
- ECE 175 - Dev Appropriate Practices **3 Credit(s)** winter term only
- PSY 101 - Psychology of Human Relations **3 Credit(s)**

Term Credits: 16

Spring

- ECE 152 - Fostering Creativity **3 Credit(s)** spring term only
- ECE 161 - Infant - Toddler Development **3 Credit(s)** spring term only
- ED 170 - Introductory Practicum **Var. (1-2) Credit(s)** Total of 2 credits for completion (1 credit/term)
- ECE 246 - Family and School Engagement **3 Credit(s)**
- ECE 254 - Preschool Curriculum and Env **3 Credit(s)** or ECE 255; spring term only

Term Credits: 13

Fall

Check in with Advisor

- ECE 243 - Child Health - Physical Dev **3 Credit(s)** fall term only
- ECE 245 - Social and Emotional Learning- ECE **3 Credit(s)** fall term only
- ECE 258 - Family Education and Support **3 Credit(s)**
- ECE 261 - Advanced Practicum and Seminar **3 Credit(s)** Permission required Total of 6 credits for completion (3 credits/term)
- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60 or higher-level math

Term Credits: 16

Winter

- COMM 218Z - Interpersonal Communication **4 Credit(s)** or COMM 111Z or COMM 115
- ECE 244 - Observation and Assessment **3 Credit(s)** winter term only
- ECE 265 - Children at Risk **3 Credit(s)**
- ECE 285 - The Early Childhood Professional **3 Credit(s)** winter term only
- HE 250 - Personal Health **3 Credit(s)** or HPE 295

Term Credits: 16

Spring

- ECE 241 - Promoting Cognitive Development **3 Credit(s)** spring term only
- ECE 248 - Developmentally Diverse Learners **3 Credit(s)** spring term only
- ECE 261 - Advanced Practicum and Seminar **3 Credit(s)** permission required Total of 6 credits for completion (3 credits/term)
- ECE 266 - Supporting Dual Language Learners **3 Credit(s)**
- ECE 275 - Equity- Diversity- Inclusion in ED **3 Credit(s)**

Term Credits: 15

For more information, contact the Early Childhood and Elementary Education Department.

Phone: 541-956-7500

Email: ECEInfo@roguecc.edu

Web address: www.roguecc.edu/ecee

TTY: Oregon Telecom Relay Service, 711

Family Support Services

Associate of Applied Science

About the Program

The Family Support Services program is designed to provide pre-employment training and education for entry-level family support workers through classroom studies and practical training. Graduates may serve families as family advocates, home visitors, parent educators, or family outreach workers, among other occupations. Coursework for this program spans the disciplines of human services and early childhood development to provide a strong base for work with children and families in a variety of settings. It is designed to accommodate both full- and part-time students and those currently employed in the field. Embedded within the program is training which meets requirements for community health worker certification through the Oregon Health Authority.

Some courses in this program may not transfer to other institutions. Students intending to transfer should seek advisor assistance to determine transferability.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Family Support Services Associate of Applied Science are:

Describe trauma-informed strategies to build positive reciprocal relationships with children and families.

Design strategies to embed opportunities for targeted learning across developmental domains and in the child's natural environment, for young children with developmentally diverse needs.

Analyze strategies that build and sustain family and community partnerships to support successful outcomes for children

Examine one's role as a professional in field of child and family services.

Explain ethical decision-making principles within the helping relationship.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Practicum placement and classroom observations will require proof of measles immunization status, RCC Student ID, and may require proof of COVID vaccination status or criminal history background check. More information is available from the Early Childhood and Elementary Education Department.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Early Childhood and Elementary Education Department Chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with the Early Childhood and Elementary Education Department Chair to determine placement.

Graduation Requirements

To graduate, students must complete all courses in this program with a grade of "C-" or better. Certain prerequisite courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90-91

Program email address: FamilySupportServicesInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-9

Fall

Check in with Advisor

- ECE 125 - Early Childhood Development **3 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 14

Winter

- ECE 151 - Guiding Children in Group Settings **3 Credit(s)**
- HS 155 - Interviewing Theory and Techniques **4 Credit(s)** winter term only

- HS 175 - Ethics for Counselors **1 Credit(s)** winter term only
- MTH 102CT - Math for CTE Professionals **4 Credit(s)** or MTH 60, or higher-level math
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**

Term Credits: 16

Spring

- HC 100 - Community Health Worker **6 Credit(s)**
- HS 158 - Trauma Informed Theory and Practice **3 Credit(s)** spring term only
- PSY 215 - Lifespan Human Development **4 Credit(s)**
- HS 261C - Human Services Practicum - Seminar **3 Credit(s)** Total of 9 credits for completion (3 credits per term)

Term Credits: 16

Fall

Check in with Advisor

- ECE 245 - Social and Emotional Learning- ECE **3 Credit(s)** fall term only
- ECE 258 - Family Education and Support **3 Credit(s)** fall term only
- HS 200 - Child Abuse and Neglect **3 Credit(s)** fall term only
- HS 201 - Family Dynamics **3 Credit(s)** fall term only
- HS 210 - Motivational Interviewing **3 Credit(s)** fall term only

Term Credits: 15

Winter

- ECE 265 - Children at Risk **3 Credit(s)**
- HS 260 - Group Counseling **4 Credit(s)** winter term only
- HS 261C - Human Services Practicum - Seminar **3 Credit(s)** Total of 9 credits for completion (3 credits per term)
- HS 266 - Crisis Intervention Strategies **3 Credit(s)** winter term only

Term Credits: 13

Spring

- COMM 218Z - Interpersonal Communication **4 Credit(s)** or COMM 115, COMM 111Z, COMM 100Z
- ECE 248 - Developmentally Diverse Learners **3 Credit(s)**
- ECE 254 - Preschool Curriculum and Env **3 Credit(s)**
- ECE 275 - Equity- Diversity- Inclusion in ED **3 Credit(s)** or SOC 213
- HS 261C - Human Services Practicum - Seminar **3 Credit(s)** Total of 9 credits for completion (3 credits per term)

Term Credits: 16

For more information, contact the Early Childhood and Elementary Education Department.

Phone: 541-956-7500

Email: FamilySupportServicesInfo@roguecc.edu

Web address: www.roguecc.edu/ecee

TTY: Oregon Telecom Relay Service, 711

Human Services

Associate of Applied Science

About the Program

The Human Services program is designed to provide pre-employment training and education for entry-level social service workers and addictions counselors through classroom studies and practical experience. They may be serving people in such areas as senior services, crisis counseling, corrections, health, recreation, developmental disabilities, residential treatment or chemical dependency. The agencies provide inpatient and outpatient programs. Students are prepared during the program to take the exam that provides Certified Alcohol Drug Counselor (CADC) Level 1 certification.

Some courses in this program may not transfer to other institutions. Students intending to transfer should seek advisor assistance to determine transferability.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Human Services Associate of Applied Science are:

Apply ethical principles and demonstrate professional behavior in interactions with clients and colleagues.

Establish therapeutic rapport and practice active listening.

Function effectively to provide coordinated and client-centered care.

Entry Requirements

Students are required to complete the college placement process to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by the Placement Process.

Prospective students should be aware of entry requirements of human services agencies prior to considering human services as a career choice. Practicum placement may require passing a criminal history background check. The inability to pass this check may preclude completion of the program. Students in recovery seeking placement in substance abuse treatment programs may also be required to demonstrate two years' sobriety. More information is available from the Human Services Department.

Human Services is a professional development program requiring attendance at an Information Session and completion of an online application. For more details on Information Sessions, visit the Human Services website at www.roguecc.edu/humanservices.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Human Services Department Coordinator's approval. In order to ensure that coursework is current, social science courses over 10 years old must be reviewed and approved

by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with a faculty member to determine placement.

Graduation Requirements

Students completing the required credits in this program with a grade of "C-" or better and passing the counseling skills competency requirement as demonstrated through a series of videotaped counseling interviews will receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade. A total of 528 hours of documented practicum (13 credits) is required. A minimum of three practicum seminars must also be completed. **For admission to the SOU Human Services program, RCC students must earn a minimum grade of "C" in Human Services, Psychology and other core courses.**

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 93-94

Program email address: HumanServicesInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Fall

Check in with Advisor

- CIS 120 - Concepts in Computing I **2 Credit(s)**
- HS 100 - Intro to Human Services **3 Credit(s)** fall term only
- HS 170 - Introduction to Practicum **3 Credit(s)** fall term only
- MTH 105Z - Math in Society **4 Credit(s)**
- MTH 105Q - Corequisite Support for MTH105Z **1 Credit(s)** for students who have not completed MTH 95 or MTH 96
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**

Term Credits: 16-17

Winter

- HS 144 - Introduction to Assertiveness **1 Credit(s)** winter term only
- HS 152 - Stress Management **1 Credit(s)** winter term only
- HS 155 - Interviewing Theory and Techniques **4 Credit(s)** winter term only
- HS 175 - Ethics for Counselors **1 Credit(s)** winter term only
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 15

Spring

- HS 115 - Principles of Client Record Mgmt **1 Credit(s)** spring term only
- HS 158 - Trauma Informed Theory and Practice **3 Credit(s)** spring term only
- HS 202 - Substance Abuse Counseling **3 Credit(s)** spring term only
- HE 208 - HIV and Infectious Diseases **1 Credit(s)**
- HS 261D - Human Services Practicum - Seminar **4 Credit(s)** 12 total credits required (two terms of HS261 are required)
- HS 265 - Introduction to Counseling Theories **3 Credit(s)** spring term only

Term Credits: 15

Fall

Check in with Advisor

- HS 200 - Child Abuse and Neglect **3 Credit(s)** fall term only
- HS 201 - Family Dynamics **3 Credit(s)** fall term only
- HS 210 - Motivational Interviewing **3 Credit(s)** fall term only
- HS 261D - Human Services Practicum - Seminar **4 Credit(s)** 12 total credits required (two terms of HS261 are required)
- PSY 101 - Psychology of Human Relations **3 Credit(s)**

Term Credits: 16

Winter

- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 115 or COMM 218Z

- HS 260 - Group Counseling **4 Credit(s)** winter term only
- HS 261D - Human Services Practicum - Seminar **4 Credit(s)** 12 total credits required (two terms of HS261 are required)
- HS 266 - Crisis Intervention Strategies **3 Credit(s)** winter term only
- HS 268 - Intro to Co-occurring Disorders **3 Credit(s)** winter term only

Term Credits: 18

Spring

- HS 185 - EDI in the Workplace **3 Credit(s)** spring term only
- HS 271 - HS Capstone - Applied Skills **2 Credit(s)**
- PSY 202Z - Introduction to Psychology II **4 Credit(s)** spring term only
- SOC 230 - Aging and Society **4 Credit(s)** winter/spring term only, or PSY 215

Term Credits: 13

For more information, contact the Human Services Department:

Phone: 541-956-7500

Email: HumanServicesInfo@roquecc.edu

Web address: www.roquecc.edu/humanservices

TTY: Oregon Telecom Relay Service, 711

Early Childhood Development Transfer to SOU

Associate of Science

About the Program

Based on a signed articulation agreement, Rogue Community College (RCC) and Southern Oregon University (SOU) Department of Education offer an Associate of Science degree for students who want to work with children ages birth to 8 and their families that do not require a teaching license. This degree was developed as a cooperative venture between SOU and RCC and offers knowledge and application components drawn from curriculum at both institutions.

The Associate of Science degree articulates directly into a bachelor's degree program at SOU that will fulfill the standards of the National Association for the Education of Young Children, as the program objectives are designed to align with the national professional standards.

Students should work closely with their advisors to ensure transferability of this program. They should also contact the SOU School of Education early in the first year of the program to be advised about additional requirements and procedures for admission to SOU. Students transferring to SOU will be required to complete ECE300 at SOU during their first quarter. If students transfer before completing this degree or transfer in a major not covered by prior agreements, their courses will be evaluated individually toward the transfer requirements of the college of their choice.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Early Childhood Development Transfer to Southern Oregon University are:

Evaluate stages of child development for ages birth through age 8, across developmental domains.

Design developmentally and culturally appropriate curriculum and teaching practices for young children.

Analyze strategies to build and sustain family and community partnerships to support successful outcomes for children.

Examine one's role as a professional in field of education.

Utilize screening and assessment tools to respond to children's developmental strengths and needs in curriculum planning.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Practicum placement and classroom observations will require proof of measles immunization status, RCC Student ID, and may require

proof of COVID vaccination status or criminal history background check. More information is available from the Early Childhood and Elementary Education Department.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Early Childhood and Elementary Education Department Chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now student must meet with the department chair to determine placement.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C-" or better. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Total Program Credits: 90-93

Program email address: ECEInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 96 - Applied Algebra II **4 Credit(s)** or MTH 95 or designated placement; Check with Advisor
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Fall

Check in with Advisor

- ECE 163 - Preschool - Primary Development **3 Credit(s)**
- ECE 100 - Intro - Early Childhood Education **3 Credit(s)** fall term only
- PSY 101 - Psychology of Human Relations **3 Credit(s)**

- WR 121Z - Composition I **4 Credit(s)**
- COMM 218Z - Interpersonal Communication **4 Credit(s)** or COMM 111Z

Term Credits: 17

Winter

- ECE 154 - Children's Literature and Literacy **3 Credit(s)** winter term only
- ECE 151 - Guiding Children in Group Settings **3 Credit(s)**
- WR 122Z - Composition II **4 Credit(s)**
- ECE 175 - Dev Appropriate Practices **3 Credit(s)** winter term only
- ENG 104Z - Introduction to Fiction **4 Credit(s)** or MUS 210 or approved Humanities transfer course (credits vary)

Term Credits: 17

Spring

- ECE 161 - Infant - Toddler Development **3 Credit(s)** spring term only
- ECE 152 - Fostering Creativity **3 Credit(s)** spring term only
- ECE 254 - Preschool Curriculum and Env **3 Credit(s)** or ECE 255; spring term only
- ED 170 - Introductory Practicum **Var. (1-2) Credit(s)** total of 2 credits for completion (1 credit/term)
- BI 103 - Introduction to Biology III **3 Credit(s)** or G 103 or approved Science Lab transfer course (credits vary)
- BI 103L - Introduction to Biology III Lab **1 Credit(s)** or G 103L or approved Science Lab transfer course (credits vary)

Term Credits: 14

Fall

- ECE 243 - Child Health - Physical Dev **3 Credit(s)** fall term only
- ECE 245 - Social and Emotional Learning- ECE **3 Credit(s)** fall term only
- ECE 258 - Family Education and Support **3 Credit(s)** or ECE 246
- ED 170 - Introductory Practicum **Var. (1-2) Credit(s)** total of 2 credits for completion (1 credit/term)
- BI 101 - Introduction to Biology I **3 Credit(s)** or CHEM 104 or approved Science Lab transfer course (credits vary)

- BI 101L - Introduction to Biology I Lab **1 Credit(s)** or CHEM 104L or approved Science Lab transfer course (credits vary)

Term Credits: 14

Winter

- ECE 244 - Observation and Assessment **3 Credit(s)** winter term only
- ECE 285 - The Early Childhood Professional **3 Credit(s)** winter term only
- STAT 243Z - Elementary Statistics I **4 Credit(s)** ¹ or MTH 105Z or approved Math course; Check with Advisor
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)** or MUS 201 or approved Humanities transfer course (credits vary)

Term Credits: 14

Spring

- G 100 - Fundamentals of Geology **3 Credit(s)** or BI 100SB or other approved Science course (credits vary)
- ECE 266 - Supporting Dual Language Learners **3 Credit(s)**
- ECE 275 - Equity- Diversity- Inclusion in ED **3 Credit(s)**
- ECE 248 - Developmentally Diverse Learners **3 Credit(s)** or approved Early Childhood Education elective
- ECE 261 - Advanced Practicum and Seminar **3 Credit(s)** Permission required

Term Credits: 15

Approved Early Childhood Education Electives

Complete one course from the following list.

- ECE 135 - Applied Child Development **3 Credit(s)**
- ECE 241 - Promoting Cognitive Development **3 Credit(s)**
- ECE 248 - Developmentally Diverse Learners **3 Credit(s)**
- ECE 265 - Children at Risk **3 Credit(s)**

Approved Math Electives

Complete one course from the following list.

- MTH 105Z - Math in Society **4 Credit(s)**
- MTH 111Z - Precalculus I - Functions **4 Credit(s)**

- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)**
- MTH 211 - Fundamentals of Elementary Math I **4 Credit(s)** and MTH 212 (must take both)
- STAT 243Z - Elementary Statistics I **4 Credit(s)**

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Humanities Electives

Complete at least two courses from the following list, 7-8 credits. For list of SOU's General Education Capacities please go to their website. At least one course must meet SOU General Education requirements for the Creativity & Innovation general education capacity.

- ART 131 - Introduction to Drawing - Value **3 Credit(s)**
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- COMM 115 - Intercultural Communication **4 Credit(s)**
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 257 - African American Literature **4 Credit(s)**

- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- IS 110 - Intro to International Studies **4 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- PHL 103 - Critical Reasoning **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**

- SPAN 203 - Second Year Spanish III **4 Credit(s)**
- TA 141 - Fundamentals of Acting I **4 Credit(s)**
- WR 241 - Imaginative Writing I **4 Credit(s)**
- WR 242 - Imaginative Writing II **4 Credit(s)**
- WR 243 - Imaginative Writing III **4 Credit(s)**

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Science and Lab Science Electives

Complete at least two courses, 8 credits, from the following list. At least one course must be a physical science and one a biological science.

Note that only one course can be a regional field studies course indicated by asterisk.

Complete a third course - either lab or non-lab Science 3-4 credit course.

At least one course must meet SOU General Education requirements for the Inquiry and Analysis general education capacity.

For list of SOU's General Education Capacities please go to their website.

- BI 100SB - Biology of Human Body Systems **3 Credit(s)** (non-lab course)
- BI 101 - Introduction to Biology I **3 Credit(s)** and BI 101L
- BI 102 - Introduction to Biology II **3 Credit(s)** and BI 102L
- BI 103 - Introduction to Biology III **3 Credit(s)** and BI 103L
- BI 121 - Elem Anatomy - Physiology I **3 Credit(s)** and BI 121L
- BI 122 - Intro Anatomy - Physiology II **3 Credit(s)** and BI 122L
- BI 221Z - Principles of Biology - Cells **5 Credit(s)**
- BI 222Z - Principles of Biology - Organisms **5 Credit(s)**
- BI 223Z - Principles of Bio - Ecology and Evo **5 Credit(s)**
- BI 231 - Anatomy and Physiology I **3 Credit(s)** and BI 231L
- BI 232 - Anatomy and Physiology II **3 Credit(s)** and BI 232L
- BI 233 - Anatomy and Physiology III **3 Credit(s)** and BI 233L
- BI 234 - Microbiology **3 Credit(s)** and BI 234L
- CHEM 104 - Introductory Chemistry **4 Credit(s)** and CHEM 104L
- CHEM 105 - Introductory Organic Chemistry **3 Credit(s)** and CHEM 105L

- CHEM 106 - Introductory Biochemistry **3 Credit(s)** and CHEM 106L
- CHEM 221Z - General Chemistry I **4 Credit(s)** and CHEM 227Z
- CHEM 222Z - General Chemistry II **4 Credit(s)** and CHEM 228Z
- CHEM 223Z - General Chemistry III **4 Credit(s)** and CHEM 229Z
- G 100 - Fundamentals of Geology **3 Credit(s)** (no- lab course)
- G 101 - Intro to Geology I **3 Credit(s)** and G 101L
- G 102 - Intro to Geology II Surface Process **3 Credit(s)** and G 102L
- G 103 - Intro to Geology III Historical **3 Credit(s)** and G 103L
- GS 104 - Physical Science - Physics **3 Credit(s)** and GS 104L
- GS 107 - Physical Science - Astronomy **3 Credit(s)** and GS 107L
- GS 108 - Physical Science - Oceanography **3 Credit(s)** and GS 108L
- GS 170 - Regional Field Studies **3 Credit(s)** and GS 170L *
- NFM 225 - Nutrition **4 Credit(s)** (non-lab course)
- PH 201 - General Physics I **4 Credit(s)** and PH 201L
- PH 202 - General Physics II **4 Credit(s)** and PH 202L
- PH 203 - General Physics III **4 Credit(s)** and PH 203L
- PH 211 - General Physics - Calculus I **4 Credit(s)** and PH 211L
- PH 212 - General Physics - Calculus II **4 Credit(s)** and PH 212L
- PH 213 - General Physics - Calculus III **4 Credit(s)** and PH 213L

Notes:

¹ Complete at least one course, 4-5 credits – MTH 211, MTH 212 and MTH 213 are required for application to the Master of Arts in Teaching (MAT) program at SOU.

For more information, contact the Early Childhood and Elementary Education Department:

Phone: 541-956-7500

Email: ECEInfo@roquecc.edu

Web address: www.roquecc.edu/ecee

TTY: Oregon Telecom Relay Service, 711

Early Intervention Transfer to Western Oregon University

Associate of Science

About the Program

Based on a signed articulation agreement, Rogue Community College (RCC) and Western Oregon University (WOU) offer an Associate of Science degree for students who want to work with children ages birth to kindergarten entry with developmental delays or disabilities. This degree offers knowledge and application components drawn from curriculum at both institutions.

The Associate of Science degree articulates directly into a WOU Early Childhood bachelor's degree grounded with an Early Intervention/Early Childhood Special Education (EI/ECSE) concentration and license. The degree at RCC and WOU align with the standards of the National Association for the Education of Young Children.

Students should work closely with their advisors to ensure transferability of this program. They should also contact the WOU College of Education early in the first year of the program to be advised about additional requirements and procedures for admission to WOU. If students transfer before completing this degree or transfer in a major not covered by prior agreements, their courses will be evaluated individually toward the transfer requirements of the college of their choice.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Early Intervention Transfer to Western Oregon University are:

Evaluate stages of child development for ages birth through age 8, across developmental domains.

Design strategies to embed opportunities for targeted learning across developmental domains and in the child's natural environment, for young children with developmentally diverse needs.

Analyze strategies to build and sustain family and community partnerships to support successful outcomes for children.

Examine one's role as a professional in the field of education.

Utilize screening and assessment tools to respond to children's developmental strengths and needs in curriculum planning.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Practicum placement and classroom

observations will require proof of measles immunization status, RCC Student ID, and may require proof of COVID vaccination status or criminal history background check. More information is available from the Early Childhood and Elementary Education Department.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Early Childhood and Elementary Education Department Chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now student must meet with the department chair to determine placement.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C-" or better. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note, some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Total Program Credits: 90-94

Program Email Address: ECEInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 96 - Applied Algebra II **4 Credit(s)** or MTH 95 or designated placement; Check with Advisor.
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required by placement

Prerequisite Credits: 0-8

Fall

Check in with Advisor.

- ECE 100 - Intro - Early Childhood Education **3 Credit(s)** fall term only
- ECE 163 - Preschool - Primary Development **3 Credit(s)**
- PSY 101 - Psychology of Human Relations **3 Credit(s)**
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 13

Winter

- ECE 151 - Guiding Children in Group Settings **3 Credit(s)**
- ECE 154 - Children's Literature and Literacy **3 Credit(s)** winter term only
- ECE 175 - Dev Appropriate Practices **3 Credit(s)** winter term only
- ED 170 - Introductory Practicum **Var. (1-2) Credit(s)** total of 2 credits for completion (1 credit/term)
- WR 122Z - Composition II **4 Credit(s)**

Term Credits: 14

Spring

- ECE 254 - Preschool Curriculum and Env **3 Credit(s)**
- ECE 152 - Fostering Creativity **3 Credit(s)** spring term only
- ECE 161 - Infant - Toddler Development **3 Credit(s)** spring term only
- ED 170 - Introductory Practicum **Var. (1-2) Credit(s)** total of 2 credits for completion (1 credit/term)
- STAT 243Z - Elementary Statistics I **4 Credit(s)** or MTH 105Z
- STAT 243Q - Corequisite Support for STAT243Z **1 Credit(s)** for students who have not completed MTH 95 or MTH 96

Term Credits: 14-15

Summer

- COMM 218Z - Interpersonal Communication **4 Credit(s)** or COMM 111Z
- MUS 105 - Music Appreciation **3 Credit(s)** or ART 131 or approved Humanities course (credits vary)

Term Credits: 7

Fall

- ECE 243 - Child Health - Physical Dev **3 Credit(s)** fall term only
- ECE 245 - Social and Emotional Learning- ECE **3 Credit(s)** or approved ECE elective
- ECE 258 - Family Education and Support **3 Credit(s)** fall term only

- BI 101 - Introduction to Biology I **3 Credit(s)** or G 101 or approved Science Lab transfer course (credits vary)
- BI 101L - Introduction to Biology I Lab **1 Credit(s)** or G 101L or approved Science Lab transfer course (credits vary)

Term Credits: 13

Winter

- ECE 244 - Observation and Assessment **3 Credit(s)** winter term only
- HPE 295 - Health and Fitness for Life **3 Credit(s)**
- BI 102 - Introduction to Biology II **3 Credit(s)** or G 102 or approved Science Lab transfer course (credits vary)
- BI 102L - Introduction to Biology II Lab **1 Credit(s)** or G 102L or approved Science Lab transfer course (credits vary)
- ENG 104Z - Introduction to Fiction **4 Credit(s)** or approved Humanities course (credits vary)

Term Credits: 14

Spring

- ECE 248 - Developmentally Diverse Learners **3 Credit(s)** spring term only
- ECE 261 - Advanced Practicum and Seminar **3 Credit(s)** Permission required
- ECE 266 - Supporting Dual Language Learners **3 Credit(s)**
- ECE 275 - Equity- Diversity- Inclusion in ED **3 Credit(s)**
- G 100 - Fundamentals of Geology **3 Credit(s)**

Term Credits: 15

Approved ECE Electives

(complete one course from the following list)

- ECE 135 - Applied Child Development **3 Credit(s)**
- ECE 241 - Promoting Cognitive Development **3 Credit(s)**
- ECE 245 - Social and Emotional Learning- ECE **3 Credit(s)**
- ECE 255 - Infant-Toddler Curriculum and Env **3 Credit(s)**
- ECE 265 - Children at Risk **3 Credit(s)**
- ECE 285 - The Early Childhood Professional **3 Credit(s)**

Approved Math Courses

(complete one course from the following list)

- MTH 105Z - Math in Society **4 Credit(s)**
- MTH 111Z - Precalculus I - Functions **4 Credit(s)**
- MTH 112Z - Precalculus II - Trigonometry **4 Credit(s)**
- MTH 211 - Fundamentals of Elementary Math I **4 Credit(s)**
- MTH 212 - Fundamentals of Elementary Math II **4 Credit(s)**
- MTH 251Z - Differential Calculus **4 Credit(s)**
- STAT 243Z - Elementary Statistics I **4 Credit(s)**

Approved Humanities Courses

(complete two courses from the following list, 7-8 credits)

- ART 131 - Introduction to Drawing - Value **3 Credit(s)**
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- COMM 115 - Intercultural Communication **4 Credit(s)**
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**
- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**

- ENG 257 - African American Literature **4 Credit(s)**
- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- IS 110 - Intro to International Studies **4 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**
- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- PHL 103 - Critical Reasoning **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**

- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**
- TA 141 - Fundamentals of Acting I **4 Credit(s)**
- WR 241 - Imaginative Writing I **4 Credit(s)**
- WR 242 - Imaginative Writing II **4 Credit(s)**
- WR 243 - Imaginative Writing III **4 Credit(s)**

Approved Lab Science Courses

(Complete at least two courses which must have labs, from the following list for a total of 8 credits. Note that only one course can be a regional field studies course indicated by asterisk.)

- BI 101 - Introduction to Biology I **3 Credit(s)** and BI 101L
- BI 102 - Introduction to Biology II **3 Credit(s)** and BI 102L
- BI 221Z - Principles of Biology - Cells **5 Credit(s)**
- BI 222Z - Principles of Biology - Organisms **5 Credit(s)**
- BI 223Z - Principles of Bio - Ecology and Evo **5 Credit(s)**
- CHEM 104 - Introductory Chemistry **4 Credit(s)** and CHEM 104L
- CHEM 105 - Introductory Organic Chemistry **3 Credit(s)** and CHEM 105L
- CHEM 221Z - General Chemistry I **4 Credit(s)** and CHEM 227Z
- CHEM 222Z - General Chemistry II **4 Credit(s)** and CHEM 228Z
- CHEM 223Z - General Chemistry III **4 Credit(s)** and CHEM 229Z
- G 101 - Intro to Geology I **3 Credit(s)** and G 101L
- G 102 - Intro to Geology II Surface Process **3 Credit(s)** and G 102L
- G 103 - Intro to Geology III Historical **3 Credit(s)** and G 103L
- GS 107 - Physical Science - Astronomy **3 Credit(s)** and GS 107L
- PH 201 - General Physics I **4 Credit(s)** and PH 201L
- PH 202 - General Physics II **4 Credit(s)** and PH 202L
- PH 203 - General Physics III **4 Credit(s)** and PH 203L
- PH 211 - General Physics - Calculus I **4 Credit(s)** and PH 211L
- PH 212 - General Physics - Calculus II **4 Credit(s)** and PH 212L
- PH 213 - General Physics - Calculus III **4 Credit(s)** and PH 213L

For more information, contact the Early Childhood and Elementary Education Department:

Phone: 541-956-7500

Email: ECEInfo@roquecc.edu

Web address: www.roquecc.edu/ecee

TTY: Oregon Telecom Relay Service, 711

Education Studies Transfer to SOU

Associate of Science

About the Program

Based on a signed articulation agreement, Rogue Community College (RCC) and Southern Oregon University (SOU) School of Education offer an Associate of Science degree for students who wish to ultimately obtain a Bachelor's in Education Studies and a teaching license in elementary education.

This degree was developed as a cooperative venture between SOU and RCC. It offers knowledge and application components drawn from curriculum at both institutions. The degree transfers directly into the bachelor's degree program in Education Studies at SOU. If a student's career goal is to teach in an elementary school, successful completion of the Bachelor's degree will lead to an initial teaching license.

Students must work closely with their advisors to ensure transferability of this program. If students transfer before completing this degree or in a major not covered by prior agreements, their courses will be evaluated individually toward the transfer requirements of the college of their choice.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Education Studies Transfer to Southern Oregon University are:

Design strategies that promote child development and learning across developmental domains relevant to the child's relational and cultural environments.

Design developmentally and culturally appropriate curriculum for elementary children.

Analyze strategies that build and sustain family and community partnerships to support successful outcomes for children.

Examine one's role as a professional in field of education.

Utilize screening and assessment tools to respond to children's developmental strengths and needs in curriculum planning.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Practicum placement and classroom observations will require proof of measles immunization status, RCC Student ID, and may require proof of COVID vaccination status or criminal history background check. More information is available from the Early Childhood and Elementary Education Department.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Early Childhood and Elementary Education Department Chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now student must meet with the department chair to determine placement.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C-" or better. Certain courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade.

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Total Program Credits: 90-92

Program email address: ECEInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 96 - Applied Algebra II **4 Credit(s)** ¹ or MTH 95 or designated placement
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Fall

Check in with Advisor

- ED 200 - Introduction to Teaching **4 Credit(s)** fall term only
- ED 225 - Child Development **4 Credit(s)**
- G 100 - Fundamentals of Geology **3 Credit(s)** or BI 100SB or other approved Science transfer course
- WR 121Z - Composition I **4 Credit(s)**

Term Credits: 15

Winter

- ECE 151 - Guiding Children in Group Settings **3 Credit(s)**
- ED 170 - Introductory Practicum **Var. (1-2) Credit(s)** Total of 3 credits for completion (1 credit/term)
- ED 256 - Elementary Curriculum Design **4 Credit(s)** winter term only
- GS 104 - Physical Science - Physics **3 Credit(s)** or CHEM 104 (offered fall term), or approved Physical Lab Science transfer course (credits vary)
- GS 104L - Physical Science - Physics Lab **1 Credit(s)** or CHEM 104L (offered fall term), or approved Physical Lab Science transfer course (credits vary)
- HST 202 - US HST Post Reconstruction-Present **4 Credit(s)** or HST 105, or approved History transfer course

Term Credits: 16

Spring

- BI 101 - Introduction to Biology I **3 Credit(s)** or BI 103, or approved Life Lab Science transfer course (credits vary)
- BI 101L - Introduction to Biology I Lab **1 Credit(s)** or BI 103L, or approved Life Lab Science transfer course (credits vary)
- ECE 248 - Developmentally Diverse Learners **3 Credit(s)** spring term only
- ED 170 - Introductory Practicum **Var. (1-2) Credit(s)** Total of 3 credits for completion (1 credit/term)
- ED 247 - Social and Emotional Learning K-6 **4 Credit(s)**
- WR 122Z - Composition II **4 Credit(s)**

Term Credits: 16

Fall

Check in with Advisor

- COMM 218Z - Interpersonal Communication **4 Credit(s)** or COMM 111Z or COMM 225
- ECE 246 - Family and School Engagement **3 Credit(s)** fall term only
- ED 170 - Introductory Practicum **Var. (1-2) Credit(s)** Total of 3 credits for completion (1 credit/term)
- HPE 295 - Health and Fitness for Life **3 Credit(s)**
- MTH 211 - Fundamentals of Elementary Math I **4 Credit(s)** fall term only

Term Credits: 15

Winter

- ECE 244 - Observation and Assessment **3 Credit(s)** winter term only
- ECE 265 - Children at Risk **3 Credit(s)**
- GEOG 110 - Introduction to Human Geography **4 Credit(s)**
- MTH 212 - Fundamentals of Elementary Math II **4 Credit(s)** winter term only

Term Credits: 14

Spring

- ECE 266 - Supporting Dual Language Learners **3 Credit(s)**
- ECE 275 - Equity- Diversity- Inclusion in ED **3 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)** or ENG 204 or approved Humanities Literature transfer course
- MTH 213 - Fundamentals of Elementary Math III **4 Credit(s)** spring term only

Term Credits: 14

Approved Humanities/Literature Electives

Complete any one course, 4 credits, from the following list.

- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Social Science/History Electives

Complete at least one history course, 4 credits, from the following list.

- HST 104 - World Civ Prehistory - Middle Ages **4 Credit(s)**
- HST 105 - World Civ Byzantium - Present **4 Credit(s)**
- HST 201 - US History through Reconstruction **4 Credit(s)**
- HST 202 - US HST Post Reconstruction-Present **4 Credit(s)**

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Science and Lab Science Electives

Complete at least three courses, 11-13 credits, from the following list. At least two courses must have labs, and at least one course must be a physical science and one a biological science.

Note that only one course can be a regional field studies course indicated by asterisk.

At least one course must meet SOU General Education requirements for the Inquiry and Analysis General Education Capacity.

For list of SOU's General Education Capacities please go to their website.

- BI 100SB - Biology of Human Body Systems **3 Credit(s)** (non-lab course)
- BI 101 - Introduction to Biology I **3 Credit(s)** and BI 101L
- BI 102 - Introduction to Biology II **3 Credit(s)** and BI 102L
- BI 103 - Introduction to Biology III **3 Credit(s)** and BI 103L
- BI 121 - Elem Anatomy - Physiology I **3 Credit(s)** and BI 121L
- BI 122 - Intro Anatomy - Physiology II **3 Credit(s)** and BI 122L
- BI 231 - Anatomy and Physiology I **3 Credit(s)**
- BI 221Z - Principles of Biology - Cells **5 Credit(s)**
- BI 222Z - Principles of Biology - Organisms **5 Credit(s)**
- BI 223Z - Principles of Bio - Ecology and Evo **5 Credit(s)** and BI 231L
- BI 232 - Anatomy and Physiology II **3 Credit(s)** and BI 232L
- BI 233 - Anatomy and Physiology III **3 Credit(s)** and BI 233L
- BI 234 - Microbiology **3 Credit(s)** and BI 234L
- CHEM 104 - Introductory Chemistry **4 Credit(s)** and CHEM 104L
- CHEM 105 - Introductory Organic Chemistry **3 Credit(s)** and CHEM 105L
- CHEM 106 - Introductory Biochemistry **3 Credit(s)** and CHEM 106L

- CHEM 221Z - General Chemistry I **4 Credit(s)** and CHEM 227Z
- CHEM 222Z - General Chemistry II **4 Credit(s)** and CHEM 228Z
- CHEM 223Z - General Chemistry III **4 Credit(s)** and CHEM 229Z
- G 100 - Fundamentals of Geology **3 Credit(s)** (non-lab course)
- G 101 - Intro to Geology I **3 Credit(s)** and G 101L
- G 102 - Intro to Geology II Surface Process **3 Credit(s)** and G 102L
- G 103 - Intro to Geology III Historical **3 Credit(s)** and G 103L
- GS 104 - Physical Science - Physics **3 Credit(s)** and GS 104L
- GS 107 - Physical Science - Astronomy **3 Credit(s)** and GS 107L
- GS 108 - Physical Science - Oceanography **3 Credit(s)** and GS 108L
- GS 170 - Regional Field Studies **3 Credit(s)** and GS 170L *
- PH 201 - General Physics I **4 Credit(s)** and PH 201L
- PH 202 - General Physics II **4 Credit(s)** and PH 202L
- PH 203 - General Physics III **4 Credit(s)** and PH 203L
- PH 211 - General Physics - Calculus I **4 Credit(s)** and PH 211L
- PH 212 - General Physics - Calculus II **4 Credit(s)** and PH 212L
- PH 213 - General Physics - Calculus III **4 Credit(s)** and PH 213L

Notes:

¹ MTH 96 is not accepted as a pre-requisite for MTH 211 at Southern Oregon University as it is at Rogue Community College. Students intending to take MTH 211 at SOU, who take MTH 96, will need to take the SOU Placement Test to determine that they have met the prerequisite.

For more information, contact the Early Childhood and Elementary Education Department:

Phone: 541-956-7500

Email: ECEInfo@roquecc.edu

Web address: www.roquecc.edu/ecee

TTY: Oregon Telecom Relay Service, 711

Human Services Transfer to SOU

Associate of Science

About the Program

The Associate of Science degree is based on a signed articulation agreement with Southern Oregon University (SOU). It has been developed in close cooperation with the School of Social Sciences, Health and Physical Education at SOU. The SOU departments of psychology and sociology/ anthropology offer an interdisciplinary bachelor's degree program focusing on the needs of human service professionals, a Bachelor of Arts or Science in Social Science. RCC's Associate of Science (AS) degree is articulated with SOU's Human Service program.

Students should contact the SOU Human Services program early in the first year of the AS program to be advised about additional requirements and procedures for admission to the school or program. Students should be aware that if they transfer before completing this degree, courses will be evaluated individually toward the general education requirements in effect at SOU.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Human Services Transfer to Southern Oregon University are:

Apply ethical principles and demonstrate professional behavior in interactions with clients and colleagues.

Establish therapeutic rapport and practice active listening.

Function effectively to provide coordinated and client-centered care.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Prospective students should be aware of entry requirements of human services agencies prior to considering human services as a career choice. Practicum placement may require passing a criminal history background check. The inability to pass this check may preclude completion of the program.

Students in recovery seeking placement in substance abuse treatment programs may also be required to demonstrate two years' sobriety. More information is available from the Human Services Department.

Human Services is a professional development program requiring attendance at an Information Session and completion of an online application. For details on Information Sessions, visit the Human Services website at www.roguecc.edu/humanservices.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the department coordinator's approval. In order to ensure that coursework is current, program courses over seven years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with a Human Services Department advisor to determine placement.

Graduation Requirements

Students must successfully complete all credits in this program with a grade of "C-" or better and passing the counseling skills competency requirement as demonstrated through a series of videotaped counseling interviews, to receive their degrees. A total of 264 hours (8 credits) of documented practicum is required and a minimum of two practicum seminars must also be completed. **For admission to the SOU Human Services program, RCC students must earn a minimum grade of "C" in Human Services, Psychology and other core courses.**

This guide lays out an optimal path to graduate. Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult an advisor with any program completion questions.

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Total Program Credits: 90-92

Program email address: HumanServicesInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- CIS 120 - Concepts in Computing I **2 Credit(s)** ¹ Required for graduation
- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 218Z; Required for graduation
- MTH 20 - Pre-algebra **4 Credit(s)** or designated placement; check in with Advisor
- WR 121Z - Composition I **4 Credit(s)** Required for graduation

Prerequisite Credits: 8-14

Fall

Check in with Advisor

- HS 100 - Intro to Human Services **3 Credit(s)** fall term only
- HS 170 - Introduction to Practicum **3 Credit(s)** fall term only
- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)**
- STAT 243Z - Elementary Statistics I **4 Credit(s)**

- STAT 243Q - Corequisite Support for STAT243Z **1 Credit(s)** for students who have not completed MTH 95 or MTH 96, or any college-level course as needed to meet program minimum credit requirements

Term Credits: 14-15

Winter

- BI 100SB - Biology of Human Body Systems **3 Credit(s)**
- HS 144 - Introduction to Assertiveness **1 Credit(s)** winter term only
- HS 152 - Stress Management **1 Credit(s)** winter term only
- HS 155 - Interviewing Theory and Techniques **4 Credit(s)** winter term only
- HS 175 - Ethics for Counselors **1 Credit(s)** winter term only
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**

Term Credits: 14

Spring

- HE 208 - HIV and Infectious Diseases **1 Credit(s)** fall/spring term only
- HS 115 - Principles of Client Record Mgmt **1 Credit(s)** spring term only
- HS 202 - Substance Abuse Counseling **3 Credit(s)** spring term only
- HS 158 - Trauma Informed Theory and Practice **3 Credit(s)** spring term only
- HS 265 - Introduction to Counseling Theories **3 Credit(s)** spring term only
- SOC 204Z - Introduction to Sociology **4 Credit(s)**

Term Credits: 15

Fall

Check in with Advisor

- HS 200 - Child Abuse and Neglect **3 Credit(s)** fall term only
- HS 201 - Family Dynamics **3 Credit(s)**
- HS 210 - Motivational Interviewing **3 Credit(s)** fall term only
- HS 261D - Human Services Practicum - Seminar **4 Credit(s)** 8 total credits required (two terms of HS261 are required)

Term Credits: 13

Winter

- HS 266 - Crisis Intervention Strategies **3 Credit(s)** winter term only
- HS 260 - Group Counseling **4 Credit(s)** winter term only
- HS 268 - Intro to Co-occurring Disorders **3 Credit(s)** winter term only
- HS 261D - Human Services Practicum - Seminar **4 Credit(s)** 8 total credits required (two terms of HS261 are required)
- WR 122Z - Composition II **4 Credit(s)** or WR 227Z

Term Credits: 18

Spring

- HS 185 - EDI in the Workplace **3 Credit(s)** spring term only
- HS 271 - HS Capstone - Applied Skills **2 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)** or MUS 201 or approved Lower Division Creativity and Innovation transfer course (credits vary)
- PSY 202Z - Introduction to Psychology II **4 Credit(s)**
- SOC 230 - Aging and Society **4 Credit(s)** winter or spring term

Term Credits: 17

Advising Reminder:

Work closely with an academic advisor to complete courses at RCC that will meet the SOU lower division general education capacity requirements.

Approved Humanities Electives

Complete one course from the following list, 3-4 credits, in order to meet minimum program requirement of 90 credits. For a list of SOU's General Education Capacities please go to their website.

- ART 131 - Introduction to Drawing - Value **3 Credit(s)**
- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**
- ART 205 - Renaissance to Baroque Art **4 Credit(s)**
- ART 206 - 18th Century to Contemporary Art **4 Credit(s)**
- COMM 115 - Intercultural Communication **4 Credit(s)**
- ENG 104Z - Introduction to Fiction **4 Credit(s)**
- ENG 105Z - Introduction to Drama **4 Credit(s)**

- ENG 106Z - Introduction to Poetry **4 Credit(s)**
- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**
- ENG 108 - World Lit Medieval to Renaissance **4 Credit(s)**
- ENG 109 - World Lit Enlightenment to Modern **4 Credit(s)**
- ENG 201 - Shakespeare I **4 Credit(s)**
- ENG 202 - Shakespeare II **4 Credit(s)**
- ENG 204 - English Lit Medieval - Renaissance **4 Credit(s)**
- ENG 205 - English Lit 18th Cent - Romantic **4 Credit(s)**
- ENG 206 - English Lit Victorian - Modern **4 Credit(s)**
- ENG 253 - American Lit - Colonial **4 Credit(s)**
- ENG 254 - American Lit - 19th Century **4 Credit(s)**
- ENG 255 - American Lit - 20th Century **4 Credit(s)**
- ENG 257 - African American Literature **4 Credit(s)**
- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- ENG 275 - The Bible as Literature **4 Credit(s)**
- HUM 101 - Introduction to Humanities I **4 Credit(s)**
- HUM 102 - Introduction to Humanities II **4 Credit(s)**
- HUM 103 - Introduction to Humanities III **4 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- MUS 105 - Music Appreciation **3 Credit(s)**
- MUS 210 - Music in World Cultures **4 Credit(s)**
- MUS 201 - Intro to Music History **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)**
- MUS 206 - Introduction to Rock Music **3 Credit(s)**
- MUS 208 - Film Music **3 Credit(s)**
- MUS 261 - History of Western Music I **4 Credit(s)**

- MUS 262 - History of Western Music II **4 Credit(s)**
- MUS 263 - History of Western Music III **4 Credit(s)**
- MUS 264 - History of Rock I **3 Credit(s)**
- MUS 265 - History of Rock II **3 Credit(s)**
- MUS 266 - History of Rock III **3 Credit(s)**
- PHL 101 - Philosophical Problems **4 Credit(s)**
- PHL 102 - Ethics **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)**
- SPAN 201 - Second Year Spanish I **4 Credit(s)**
- SPAN 202 - Second Year Spanish II **4 Credit(s)**
- SPAN 203 - Second Year Spanish III **4 Credit(s)**
- TA 141 - Fundamentals of Acting I **4 Credit(s)**
- WR 241 - Imaginative Writing I **4 Credit(s)**
- WR 242 - Imaginative Writing II **4 Credit(s)**
- WR 243 - Imaginative Writing III **4 Credit(s)**

Notes:

¹ Approved Computer Information Science or Computer Science class, CIS 120 / CS120 or above, or documented computer proficiency within the past ten years.

For more information, contact the Human Services Department:

Phone: 541-956-7500

Email: HumanServicesInfo@roguecc.edu

Web address: www.roguecc.edu/humanservices

TTY: Oregon Telecom Relay Service, 711

Associate of Arts Oregon Transfer - History Interest

About the Program

The Associate of Arts Oregon Transfer degree is a two-year program designed for students who intend to transfer to an Oregon university. Completion of the degree will satisfy lower division general education requirements and ensures junior standing at a university for registration purposes. Additionally, with careful planning, students may satisfy many of the lower division courses required in their academic majors.

Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the general education requirements of the school of their choice. Students are encouraged to work closely with their academic advisors to maximize the benefits of this degree.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to fulfill AAOT degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Discipline studies-approved coursework in humanities, social science, and science/math/computer science transferred from another Oregon community college will be accepted if students have a declared AAOT major at RCC and received a "C-" or better grade in the course(s). College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

Students must complete a minimum of 90 college-level credits with a minimum grade of "C-" or better, including at least one course designated as meeting cultural literacy criteria. Students must also have a 2.0 cumulative GPA at the time the AAOT is awarded.

The courses listed below are only meant to serve as a of recommended choices within categories required in the AAOT framework. See the AAOT program map for full degree requirements. It is recommended that a student also consult with the transfer college of choice regarding specific prerequisites since requirements for a history major vary at each university.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate

classes in any given term. When transferring to a public four-year Oregon university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language, or
2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. If students intend to complete a Bachelor of Arts (B.A.) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Completing the first year of the college language sequence in terms 3-6 at RCC sets students up for the second-year sequence when they transfer. Students should inquire with their intended receiving institution for world language requirements.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult with an advisor regularly as you complete your transfer degree.

Total Program Credits: 90

Program email address: SocialScienceInfo@roguecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING

- MTH 95 - Intermediate Algebra **4 Credit(s)** or designated placement; check in with Advisor
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Term 1

Check in with Advisor

- WR 121Z - Composition I **4 Credit(s)**
- COMM 111Z - Public Speaking **4 Credit(s)** or COMM 115 ¹ or COMM 218Z
- HST 104 - World Civ Prehistory - Middle Ages **4 Credit(s)** ¹

Term Credits: 12

Term 2

- HPE 295 - Health and Fitness for Life **3 Credit(s)** or HE 250 or HE 252 or approved Fitness/Health/PE course
- HST 105 - World Civ Byzantium - Present **4 Credit(s)** ¹

- WR 122Z - Composition II **4 Credit(s)**
- STAT 243Z - Elementary Statistics I **4 Credit(s)**
or MTH 105Z; Students should inquire with their receiving institution as to whether STAT 243Z is accepted.
- STAT 243Q - Corequisite Support for STAT243Z **1 Credit(s)** (for students who have not completed MTH 95 / MTH 96), or MTH 105Q

Term Credits: 15-16

Term 3

- ART 204 - Prehistoric to Gothic Art **4 Credit(s)**¹ or ART 205¹, ART 206¹, ENG 253, ENG 254, SPAN 201¹ or approved AAOT Humanities transfer course - talk to your advisor
- G 101 - Intro to Geology I **3 Credit(s)** or BI 101, GS 104, GS 108, GS 170 or approved AAOT Lab Science transfer course
- G 101L - Intro to Geology I Lab **1 Credit(s)** or BI 101L, GS 104L, GS 108L, GS 170L or approved AAOT Lab Science transfer course
- HST 201 - US History through Reconstruction **4 Credit(s)** 1
- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)**¹ or GEOG 110¹, GEOG 120, SPAN 101, ASL 101 or approved College-level course - talk with your advisor

Term Credits: 16

Term 4

Check in with Advisor

- HST 202 - US HST Post Reconstruction-Present **4 Credit(s)**¹
- G 102 - Intro to Geology II Surface Process **3 Credit(s)** or BI 102 or GS 170 or approved AAOT Lab Science transfer course
- G 102L - Intro to Geology II Lab **1 Credit(s)** or BI 102L or GS 170L or approved AAOT Lab Science transfer course
- PS 201 - US Gov Institutions and Policy **4 Credit(s)** or PS 202, PS 203, ECON 115, ECON 201Z, ECON 202Z, GEOG 110¹, GEOG 120 or approved College-level course - talk to your advisor
- MUS 201 - Intro to Music History **4 Credit(s)**¹ or MUS 205¹, MUS 261, MUS 262, MUS 263, MUS 265, SPAN 202¹ or approved AAOT Humanities transfer course - talk to your advisor

Term Credits: 16

Term 5

- ENG 107 - World Lit Ancient to Classical **4 Credit(s)**¹ or ENG 108¹, ENG 109¹, ENG 253, ENG 254, ENG 255, ENG 260¹, SPAN 203¹ or approved AAOT Humanities transfer course - talk to your advisor
- G 103 - Intro to Geology III Historical **3 Credit(s)** or BI 103 or GS 107, or approved AAOT Lab Science transfer course
- G 103L - Intro to Geology III Historical Lab **1 Credit(s)** or BI 103L or GS 107L or approved AAOT Lab Science transfer course
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)**¹ or HS 185, SOC 204Z¹, SOC 205Z¹, SPAN 102, ASL 102 or approved College-level course - talk to your advisor
- HST 259 - Chicano-a Latino-a US History **4 Credit(s)**¹ or SOC 235¹

Term Credits: 16

Term 6

- PHL 102 - Ethics **4 Credit(s)**
- ED 200 - Introduction to Teaching **4 Credit(s)** or BA 169Z, BT 168, HUM 101¹, HUM 102¹, HUM 103¹
- ENV 111 - Intro to Environmental Science **3 Credit(s)** or NFM 225 or approved AAOT Math/Science/Computer Science transfer course
- REL 201 - World Religions **4 Credit(s)**¹ or REL 243¹, COMM 115¹, COMM 201, COMM 218Z, COMM 225 or approved College-level course - talk to your advisor

Term Credits: 14

Notes:

¹ Meets cultural literacy criteria (one course required).

General AAOT Requirements:

- Three courses required in the Humanities category from at least two disciplines (at least 2 prefixes).
- Four courses required in Social Science category, from at least two disciplines (at least 2 prefixes).
- Four courses required in Science/Math/Computer Science from two disciplines. Three must be lab science courses.
- Students who took writing classes of 3 credits each must have WR 121, WR 122, and either WR 123 or WR 227. Students taking classes of 4 credits each must take WR 121Z and either WR 122Z or WR 227Z .
- Fitness/Health/Physical Education (minimum of one or more courses totaling at least 3 credits).
- General elective(s) as needed to meet minimum program total requirement of 90 credits.

For more information, contact the Social Science Department office:

Phone: 541-956-7500

Email: SocialScienceInfo@roguecc.edu

Web address: www.roguecc.edu/socialScience

TTY: Oregon Telecom Relay Service, 711

Associate of Arts Oregon Transfer - Psychology Interest

About the Program

The Associate of Arts Oregon Transfer degree is a two-year program designed for students who intend to transfer to an Oregon university. Completion of the degree will satisfy lower division general education requirements and ensures junior standing at a university for registration purposes. Additionally, with careful planning, students may satisfy many of the lower division courses required in their academic majors.

Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the general education requirements of the school of their choice. Students are encouraged to work closely with their academic advisors to maximize the benefits of this degree.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to fulfill AAOT degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Discipline studies-approved coursework in humanities, social science, and science/math/computer science transferred from another Oregon community college will be accepted if students have a declared AAOT major at RCC and received a "C-" or better grade in the course(s). College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

Students must complete a minimum of 90 college-level credits with a minimum grade of "C-" or better, including at least one course designated as meeting cultural literacy criteria. Students must also have a 2.0 cumulative GPA at the time the AAOT is awarded. **To earn a psychology degree at SOU students must earn a minimum grade of "C" in psychology and core courses.** It is recommended that students consult with the transfer college of choice regarding minimum grade requirements.

The courses listed below are only meant to serve as a of recommended choices within categories required in the AAOT framework. See the AAOT program map for full degree requirements. It is recommended that a student also consult with the transfer college of choice

regarding specific prerequisites since requirements for a psychology major vary at each university.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate classes in any given term. When transferring to a public four-year Oregon university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language, or
2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. If students intend to complete a Bachelor of Arts (B.A.) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Completing the first year of the college language sequence in terms 3-6 at RCC sets students up for the second-year sequence when they transfer. Students should inquire with their intended receiving institution for world language requirements.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult with an advisor regularly as you complete your transfer degree.

Total Program Credits: 90

Program email address: SocialScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING ¹

- MTH 95 - Intermediate Algebra **4 Credit(s)** or designated placement; check in with Advisor
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Term 1

Check in with Advisor

- WR 121Z - Composition I **4 Credit(s)**
- COMM 218Z - Interpersonal Communication **4 Credit(s)** or COMM 111Z, COMM 115 ¹
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**

Term Credits: 12

Term 2

- STAT 243Z - Elementary Statistics I **4 Credit(s)** Students should inquire with their receiving institution as to whether STAT 243Z is accepted
- STAT 243Q - Corequisite Support for STAT243Z **1 Credit(s)** (for students who have not completed MTH 95 or MTH 96)
- PSY 202Z - Introduction to Psychology II **4 Credit(s)**
- HPE 295 - Health and Fitness for Life **3 Credit(s)** or HE 250, HE 252, HE 253 or approved AAOT Fitness/Health/PE course
- WR 122Z - Composition II **4 Credit(s)**

Term Credits: 15-16

Term 3

- PSY 101 - Psychology of Human Relations **3 Credit(s)** or COMM 111Z, SPAN 101 or ASL 101 - talk to advisor
- BI 101 - Introduction to Biology I **3 Credit(s)** or approved AAOT Lab Science transfer course
- BI 101L - Introduction to Biology I Lab **1 Credit(s)** or approved AAOT Lab Science transfer course
- SOC 204Z - Introduction to Sociology **4 Credit(s)** ¹
- COMM 225 - Small Group Communication **4 Credit(s)** or COMM 115 ¹, COMM 237 ¹, SPAN 201 ¹, PHL 101, PHL 102 or approved AAOT Humanities transfer course

Term Credits: 15

Term 4

Check in with Advisor

- SOC 243 - Drugs - Crime - Addiction **4 Credit(s)** or PSY 219 or PSY 228
- BI 102 - Introduction to Biology II **3 Credit(s)** or approved AAOT Lab Science transfer course
- BI 102L - Introduction to Biology II Lab **1 Credit(s)** or approved AAOT Lab Science transfer course
- PSY 215 - Lifespan Human Development **4 Credit(s)** or PSY 219, PSY 228, PSY 231
- REL 201 - World Religions **4 Credit(s)** ¹ or MUS 210 ¹, REL 243 ¹, MUS 201 ¹, MUS 205 ¹, MUS 206 ¹, MUS 208, SPAN 202 ¹ or approved AAOT Humanities transfer course

Term Credits: 16

Term 5

- PHL 102 - Ethics **4 Credit(s)** or PHL 101, SPAN 203 ¹, HUM 101 ¹, HUM 102 ¹, HUM 103 ¹ or approved AAOT Humanities transfer course
- BI 103 - Introduction to Biology III **3 Credit(s)** or approved AAOT Lab Science transfer course
- BI 103L - Introduction to Biology III Lab **1 Credit(s)** or approved AAOT Lab Science transfer course
- PSY 231 - Human Sexuality **3 Credit(s)** or HS 185, SOC 213 ¹, SOC 218 ¹, SPAN 102, ASL 102 - talk to advisor
- OAL 250 - Outdoor Adventure and Leadership **3 Credit(s)** or ART 115, BI 121/BI 121L, ED 200, GEOG 110 ¹ or approved College-level course - talk to advisor
- HS 185 - EDI in the Workplace **3 Credit(s)** or BA 209 and HS 144; talk to your advisor

Term Credits: 17

Term 6

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)** ¹
- BA 169Z - Data Analysis Using Microsoft Excel **4 Credit(s)** ² or ART 133, ENG 106Z, BT 168, GEOG 110 ¹, GEOG 120; WR 241 or approved College-level course
- ENV 111 - Intro to Environmental Science **3 Credit(s)** or NFM 225 or approved AAOT Science/Math/Computer Science transfer course
- SOC 230 - Aging and Society **4 Credit(s)** or SOC 213 ¹, SOC 218 ¹, SOC 228 ¹, SOC 235 ¹ or approved College-level course - talk to advisor

Term Credits: 15

Notes:

¹ Meets cultural literacy criteria (one course required).

² Additional pre-req may apply.

Note:

- Three courses required in the Humanities category from at least two disciplines.
- Four courses required in Social Science category, from at least two disciplines.
- Four courses required in Science/Math/Computer Science from two disciplines. Three must be lab science courses.
- Students who took writing classes of 3 credits each must have WR121, WR122 and either WR123 or WR227. Students taking classes of 4 credits each must take WR 121Z and either WR 122Z or WR 227Z.
- Fitness/Health/Physical Education (minimum of one or more courses totaling at least 3 credits).

- General elective(s) as needed to meet minimum program total requirement of 90 credits.

For more information, contact the Social Science Department:

Phone: 541-956-7500

Email: SocialScienceInfo@roquecc.edu

Web address: www.roquecc.edu/socialScience

TTY: Oregon Telecom Relay Service, 711

Associate of Arts Oregon Transfer - Sociology-Social Work Interest

About the Program

The Associate of Arts Oregon Transfer degree is a two-year program designed for students who intend to transfer to an Oregon university. Completion of the degree will satisfy lower division general education requirements and ensures junior standing at a university for registration purposes. Additionally, with careful planning, students may satisfy many of the lower division courses required in their academic majors.

Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the general education requirements of the school of their choice. Students are encouraged to work closely with their academic advisors to maximize the benefits of this degree.

Program Learning Outcomes

The Higher Education Coordinating Commission has approved certain general education outcomes for courses selected to fulfill AAOT degree requirements. All courses listed meet those identified outcomes.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. Discipline studies-approved coursework in humanities, social science, and science/math/computer science transferred from another Oregon community college will be accepted if students have a declared AAOT major at RCC and received a "C-" or better grade in the course(s). College Now credit will be accepted in accordance with current agreement.

Graduation Requirements

Students must complete a minimum of 90 college-level credits with a minimum grade of "C-" or better, including at least one course designated as meeting cultural literacy criteria. Students must also have a 2.0 cumulative GPA at the time the AAOT is awarded.

The courses listed below are only meant to serve as a of recommended choices within categories required in the AAOT framework. See the AAOT program map for full degree requirements. It is recommended that a student also consult with the transfer college of choice regarding specific prerequisites since requirements for a sociology or social work major vary at each university.

This guide lays out an optimal path to graduate in two years as you prepare to transfer to a four-year Oregon college or university. Please meet with an advisor for any questions about alternate classes in any given term. When transferring to a public four-year Oregon university, one of the following options must be met as a requirement for admission:

1. Two years of the same high school-level world language, or
2. Two terms of college-level world language (may be first-year world language, which can be used as elective credits)

This is for students who have graduated from high school or completed a high school equivalency program in 1997 or after. If students intend to complete a Bachelor of Arts (B.A.) degree at a four-year school, they must complete two years of a college level world language regardless of when they graduated from high school or an equivalency program. Completing the first year of the college language sequence in terms 3-6 at RCC sets students up for the second-year sequence when they transfer. Students should inquire with their intended receiving institution for world language requirements.

Where zero credits are listed in the prerequisites, students may place into a higher level(s) based on designated placement. Note: some prerequisites may be required for graduation. Please consult with an advisor regularly as you complete your transfer degree.

Total Program Credits: 90

Program email address: SocialScienceInfo@roquecc.edu

Program Prerequisites:

MAY BE WAIVED BASED ON PLACEMENT - SEE ADVISING ¹

- MTH 95 - Intermediate Algebra **4 Credit(s)** or MTH 96 or designated placement; check in with Advisor
- WR 115 - Introduction to Expository Writing **3 Credit(s)** or designated placement
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Prerequisite Credits: 0-8

Term 1

Check in with Advisor

- WR 121Z - Composition I **4 Credit(s)**
- PE 185YO - Yoga **1 Credit(s)** or other approved College-level general elective
- SOC 204Z - Introduction to Sociology **4 Credit(s)** ¹
- COMM 115 - Intercultural Communication **4 Credit(s)** ¹ or COMM 111Z or COMM 218Z

Term Credits: 13

Term 2

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)** ¹
- WR 122Z - Composition II **4 Credit(s)**
- STAT 243Z - Elementary Statistics I **4 Credit(s)** or approved College-level math course; Students should inquire with their receiving institution as to whether STAT 243Z is accepted
- STAT 243Q - Corequisite Support for STAT243Z **1 Credit(s)** for students who have not completed MTH 95 or MTH 96
- HPE 295 - Health and Fitness for Life **3 Credit(s)** or HE 250, HE 252, HE 253 or approved Fitness/Health/PE course

Term Credits: 15-16

Term 3

- HST 201 - US History through Reconstruction **4 Credit(s)** ¹ or HST 202 ¹ or approved AAOT Social Science
- BI 101 - Introduction to Biology I **3 Credit(s)** or CHEM 104 or approved AAOT Lab Science transfer course - talk to advisor
- BI 101L - Introduction to Biology I Lab **1 Credit(s)** or CHEM 104L or approved AAOT Lab Science transfer course - talk to advisor
- PSY 201Z - Introduction to Psychology I **4 Credit(s)**
- MUS 205 - History of Jazz **3 Credit(s)** ¹ or ART 204 ¹, ART 205 ¹, ART 206 ¹, ENG 107 ¹, ENG 108 ¹, ENG 109 ¹; SPAN 201 ¹ or approved AAOT Humanities transfer course

Term Credits: 15

Term 4

Check in with Advisor

- PSY 202Z - Introduction to Psychology II **4 Credit(s)**
- BI 102 - Introduction to Biology II **3 Credit(s)** or GS 104 or approved AAOT Lab Science transfer course
- BI 102L - Introduction to Biology II Lab **1 Credit(s)** or GS 104L or approved AAOT Lab Science transfer course
- SOC 206Z - Social Problems **4 Credit(s)** ¹ or HST 202 ¹, SOC 205Z ¹, SOC 211, SOC 213 ¹, SOC 218¹, SOC 228 ¹, SOC 230, SOC 235 ¹, SOC 243
- REL 201 - World Religions **4 Credit(s)** ¹ or REL 243 ¹, SPAN 202 ¹, COMM 111Z, COMM 115 ¹, COMM 218Z, COMM 225; MUS 210 ¹ or approved AAOT Humanities transfer course

Term Credits: 16

Term 5

- SOC 218 - Sociology of Gender **4 Credit(s)**¹ or HS 185, SOC 235¹, SOC 211, SOC 213¹, SOC 228¹, SOC 230, SOC 243¹
- PSY 215 - Lifespan Human Development **4 Credit(s)** or PSY 231, PSY 228, GEOG 110¹, GEOG 120; SPAN 101 or ASL 101
- PSY 231 - Human Sexuality **3 Credit(s)** or PS 201, PS 202, PS 203, ECE 125, ECE 161, ED 200, HC 100
- BI 103 - Introduction to Biology III **3 Credit(s)** or G 101 or approved AAOT Lab Science transfer course - talk to your advisor
- BI 103L - Introduction to Biology III Lab **1 Credit(s)** or G 101L or approved AAOT Lab Science transfer course

Term Credits: 15

Term 6

- SOC 235 - Chicano-a and Latino-a US History **4 Credit(s)**¹ or SOC 228, SOC 230, SOC 205Z¹, SOC 211, SOC 213¹, SOC 218¹ or SPAN 102 or ASL 102
- COMM 201 - Media and Society **4 Credit(s)** or BA 169Z, BA 209, BT 168, OAL 250, SRV 101 or CIS 125PT (fall term only)
- ENG 255 - American Lit - 20th Century **4 Credit(s)** or MUS 264, MUS 265, MUS 266; IS 110¹, or approved AAOT Humanities transfer course
- ENV 111 - Intro to Environmental Science **3 Credit(s)** or NFM 225 or approved AAOT Science/Math/Computer Science non-lab transfer course

Term Credits: 15

Notes:

¹ Meets cultural literacy criteria (one course required).

Note:

- Three courses required in the Humanities category from at least two discipline.
- Four courses required in Social Science category, from at least two disciplines.
- Four courses required in Science/Math/Computer Science from two disciplines. Three must be lab science courses.
- Students who took writing classes of 3 credits each must have WR121, WR122, and either WR123 or WR227. Students taking classes of 4 credits each must take WR 121Z and either WR 122Z or WR 227Z.
- Fitness/Health/Physical Education (minimum of one or more courses totaling at least 3 credits).
- General elective(s) as needed to meet minimum program total requirement of 90 credits.

For more information, contact the Social Science Department:

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Email: SocialScienceInfo@roguecc.edu

Web address: www.roguecc.edu/socialScience

TTY: Oregon Telecom Relay Service, 711

Elementary Education

Associate of Arts Oregon Transfer

About the Program

Major Transfer Maps (MTMs) represent a streamlined path for students transferring from an Oregon community college to an Oregon university who know which major/bachelor's degree program they want to pursue. In contrast to other statewide transfer tools that prioritize university general education requirements (i.e., AAOT and ASOT), MTMs specify clear course-taking paths necessary for on-track progress towards a specific major/bachelor's degree, with a guarantee of transfer from any Oregon community college to any Oregon public university. MTMs build on the 30-credit general education foundation defined by the generic Core Transfer Map (CTM), although MTMs may specify particular relevant/required General Education courses as part of the 30-credit CTM component of the MTM. The statewide Elementary Education Major Transfer Map (MTM) will use the Associate of Arts Oregon Transfer degree (AAOT-ELEM ED).

If students complete a Major Transfer Map and meet public university admissions requirements, they are guaranteed transfer to a participating Oregon four-year public university with junior standing, and their coursework will count toward a bachelor's degree in that specific major. On this page, educators and partners can find the current list of approved MTMs, as well as information guiding the ongoing implementation of MTMs in Oregon.

For additional information, refer to the Higher Education Coordinating Commission Transfer Map website.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Elementary Education AAOT are:

Apply critical thinking to analyze social issues necessary to support the function of public education.

Describe culturally-responsive pedagogy and integration of social justice into a teaching philosophy.

Identify the ethics and responsibilities necessary to obtain a professional license in the teaching field and clarify career confirmation.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Elementary Education and Early Childhood Development Department Chair's approval. In order to ensure coursework is current, program courses over 10 years old must be

reviewed and approved by the appropriate department chair before being accepted toward course requirements.

Graduation Requirements

Students must complete a minimum of 90 term credits of lower division collegiate courses with a minimum grade of "C-" or better. Students must have a minimum cumulative GPA of 2.0 at the time the Elementary Education AAOT is awarded. Students should also refer to the Higher Education Coordinating Commission Transfer Map website for additional course GPA requirements that may be applicable at their transfer institution.

Core Transfer Requirements

See an advisor for recommended courses and to learn about professional Elementary Education application processes.

Category	Course #	Credits
Writing - One course	WR 121Z * * A student must have eight credits of Writing to satisfy the AAOT requirements or they will need to take a third Writing course.	3-4
Arts & Letters - 1st course	ENG 104Z, ENG 105Z or ENG 106Z	3-4
Arts & Letters - 2nd course	Intro to Drawing or Intro to Design (RCC recommended course: ART 115 or ART 131)	3-4
Social Sciences - 1st course	HST 201 or HST 202 or HST 203 (HST 203 is not offered at RCC)	3-4
Social Sciences - 2nd course	World / Cultural Geography or Cultural Anthropology (RCC recommended course: GEOG 110 or GEOG 120 or ANTH 110)	3-4
Natural Sciences 1st course	Biological Science w/lab (ORELA prep course, often BI 101) (RCC recommended course: BI 101 or BI 102 or BI 103)	4-5
Natural Sciences 2nd course	Earth Sciences w/lab (RCC recommended course: G 101 / G 101L or G 102 / G 102L or G 103 / G 103L)	4-5
Mathematics - One course	MTH 211	4-5

*****At least 1 Core Transfer Requirement course must also satisfy Cultural Literacy outcomes for AAOT.**

******Courses must total minimum of 30 credits, can be filled by an elective credit if needed.**

Core Transfer Requirement Total: 30-35

Additional General Education Courses

See an advisor for recommended courses and to learn about professional elementary education programs and application processes.

Category	Course	Credits
Writing	WR 122Z * <i>* A student must have eight credits of Writing to satisfy the AAOT requirements or they will need to take a third writing course.</i>	3-4
Communications	COMM 111Z	3-4
Arts & Letters	Select from AAOT outcomes <i>Students interested in the WOU 4 Yr. licensure program can also take linguistics.</i> <i>200-level world languages also recommended.</i>	3-4
3rd Social Science	American Government (RCC recommended course: PS 201)	3-4
4th Social Science	Psychology class PSY 201Z or PSY 202Z	3-4
Natural Sciences	3rd lab Science from AAOT course list w/lab or discussion section. (RCC recommended course: GS 104)	4-5
Math	MTH 212	4-5
Math	MTH 213	4-5
Health	Health and Wellness (RCC recommended course: HPE 295)	2-3

Additional General Education Total: 29-38

Education Courses*

** Each public university will accept at least 3 out of the 5 courses as meeting major requirements. One of those 3 must be Education Foundations / Introduction to Education.*

See an advisor for recommended courses and to learn more about professional elementary education programs and application processes.

Course	Credits
Education Foundations / Introduction to Education (RCC recommended course: ED 200)	3-4
Child Development / Learning & Development (RCC recommended course: ED 225)	3-4
Multicultural Education / Culturally Responsive Pedagogy (RCC recommended course: ECE 275)	3-4
Special Education (RCC recommended course: ECE 248)	3-4
Practicum (RCC recommended course: ED 170 - 1 credit, taken three terms)	3

Education Courses Total: 15-19

Electives

Elective courses to reach 90 credits. (See recommended electives on page 3 in program documentation at the Higher Education Coordinating Commission Transfer Map website.)

Major Transfer Map Total: 90

For more information, contact the Early Childhood and Elementary Education Department:

Phone: 541-956-7500

Email: ECEInfo@roguecc.edu

Web address: www.roguecc.edu/ecee

TTY: Oregon Telecom Relay Service, 711

Other Programs

Sustainable Community Development, Focus Award

The Sustainable Community Development focus award (16-22 credits) provides students with the knowledge, skills and experiences that will allow them to play a vital role in developing and strengthening their communities in the twenty-first century. Diversity and sustainability are issues that present great challenges as well as incredible opportunities to create strong, thriving communities that meet the needs of their members and the environment.

Community development includes nurturing the integration of diverse groups to work together for common interests and the expansion of sustainable practices. Community development is studied holistically, including learning communication skills, how to effectively utilize the diversity inherent in American communities, and how people can live sustainably.

Completing the Sustainable Community Development focus award is an excellent addition to a resume. Knowledge of sustainability and diversity issues may be skills employers consider. Students should be aware that prerequisites exist for most courses, so they should plan accordingly.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Sustainability Focus Award are:

Community Engagement: Demonstrate the ability to communicate effectively within a group setting. Demonstrate knowledge of community issues, needs, strengths, problems and resources.

Diversity: Analyze the relationship between diversity and social inequality and demonstrate knowledge of ways diverse groups can work together.

Sustainability: Apply the concept of sustainability in examining human relationships with the environment and identify sustainable solutions to environmental problems.

At least six of the credits of the Focus Award must be completed at RCC.

Required Courses

- SOC 213 - Race and Ethnicity in the US **4 Credit(s)** or SOC 218
- SOC 228 - Environment and Society **4 Credit(s)**
- SRV 101 - Service Learning **Var. (1-6) Credit(s)** (SRV 101 is 1 credit in this term), or HS 261H

Total Required Credits: 9

Electives

(Choose elective courses from the following):

Community Engagement (3-4 Credits Minimum)

- BA 214 - Business Communications **4 Credit(s)**
- COMM 111Z - Public Speaking **4 Credit(s)**
- COMM 115 - Intercultural Communication **4 Credit(s)**
- COMM 218Z - Interpersonal Communication **4 Credit(s)**
- ED 120 - Leadership I **1 Credit(s)**
- ED 121 - Leadership II **1 Credit(s)**
- ED 122 - Leadership III **1 Credit(s)**
- HS 261C - Human Services Practicum - Seminar **3 Credit(s)**
- WR 227Z - Technical Writing **4 Credit(s)**
- Cooperative Work Experience as approved within major **3 Credit(s)** ¹

Diversity (One Class, 2-4 Credits)

- ANTH 110 - Intro to Cultural Anthropology **4 Credit(s)**
- COMM 237 - Communication and Gender **4 Credit(s)**
- ECE 275 - Equity- Diversity- Inclusion in ED **3 Credit(s)**
- ENG 257 - African American Literature **4 Credit(s)**
- ENG 260 - Introduction to Women Writers **4 Credit(s)**
- GS 151 - Indigenous Science **3 Credit(s)**
- HS 185 - EDI in the Workplace **3 Credit(s)**
- HUM 215 - Indigenous Cultures Eskimo - Inuit **4 Credit(s)**
- HUM 216 - Indigenous Cultures NW Coast **4 Credit(s)**
- HUM 217 - Indigenous Cultures Plains Nations **4 Credit(s)**
- HUM 218 - Indigenous Cultures SW Nations **4 Credit(s)**
- HUM 219 - Indigenous Cultures Mexico **4 Credit(s)**
- IS 110 - Intro to International Studies **4 Credit(s)**
- REL 201 - World Religions **4 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)** (if not taken as Sustainability elective)
- SOC 213 - Race and Ethnicity in the US **4 Credit(s)** (if not taken as part of Required)
- SOC 218 - Sociology of Gender **4 Credit(s)** (if not taken as part of Required)

- SOC 235 - Chicano-a and Latino-a US History **4 Credit(s)** or HST 259

Sustainability (One Class, 3-5 Credits)

- ENV 111 - Intro to Environmental Science **3 Credit(s)**
- GEOG 100 - Introduction to Physical Geography **3 Credit(s)**
- GEOG 110 - Introduction to Human Geography **4 Credit(s)**
- GEOG 120 - World Regional Geography **4 Credit(s)**
- GS 151 - Indigenous Science **3 Credit(s)**
- REL 243 - Nature - Religion - and Ecology **4 Credit(s)** (if not taken as Diversity elective)
- Cooperative Work Experience classes as approved within major **3 Credit(s)** ¹

Total Elective Credits: 8-13

Total Focus Award Credits: 17-22

Notes:

This focus award is not a formal, transcribed degree or certificate but recognizes student achievement in a specific topic or theme. Focus awards may be earned in combination with a certificate or degree. Classes are lower-division collegiate courses (except where noted) that may transfer to a variety of programs at a four-year college or university as elective credits, program requirements, and/or graduation requirements for the receiving institution. Students are encouraged to check with the receiving institution and their RCC academic advisor for the most accurate transfer requirement information.

¹ A maximum of three Cooperative Work Experience credits may be used toward the focus award as approved by focus award advisor.

For more information, contact the Social Science Department:

Phone: 541-956-7500

Email: SocialScienceInfo@roquecc.edu

Web address: www.roquecc.edu/socialscience

TTY: Oregon Telecom Relay Service, 711

Apprenticeship

Industrial Mechanics and Maintenance Technology - Mechanical Maintenance Apprenticeship

Career Pathway Certificate

About the Program

The Mechanical Maintenance Apprenticeship certificate program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. The certificate is available only to BOLI-registered apprentices. If you are interested in becoming a registered apprentice in an Oregon state apprenticeship program, contact the Apprenticeship office at ApprenticeshipInfo@roquecc.edu. RCC supports these 4,000-hour BOLI-ATD trades: airframe/power plant technician and boiler operator.

The certificate is a credential within Rogue Community College's Industrial Mechanics and Maintenance Technology Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, ladder-type certificates of completion, and an optional transfer path into a Bachelor of Science degree at the Oregon Tech. It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Industrial Mechanics and Maintenance Technology Mechanical Maintenance Apprenticeship Career Pathway Certificate are:

Complete 4,000 hours State of Oregon-approved on-the-job-training (OJT).

Repair, install and maintain industrial equipment using trade specific tools and techniques in compliance with state regulations.

Complete a minimum of 288 to 440 State of Oregon-approved related training hours in the classroom.

Complete required related training with a grade C- or better.

Entry Requirements

Students are required to show documentation when applying that they meet the minimum requirements to apply to the desired Apprenticeship Program. Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As

part of their training program, students must begin with the courses within their skill level as determined by placement.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and approval of the Department Chair. Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway.

Completion Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship certificate and be recommended by the Joint Apprenticeship and Training Committee or Trades Apprenticeship and Training Committee. This certificate does not guarantee licensure.

Related Training

Airframe and Power Plant Technician

- APR 129A - Aviation General I **6 Credit(s)**
- APR 129B - Aviation General II **6 Credit(s)**
- APR 129C - Aviation General III **6 Credit(s)**
- APR 129F - Aviation Airframe I **3 Credit(s)**
- APR 229A - Aviation Airframe II **6 Credit(s)**
- APR 229B - Aviation Powerplant I **6 Credit(s)**
- APR 229C - Aviation Powerplant II **4 Credit(s)**

Total Airframe and Power Plant Technician Program Credits Required: 37

Boiler Operator & Repairer

- APR 120A - Introduction to Boiler Operation **4 Credit(s)**
- APR 120B - Mechanics of Steam Generated Power **4 Credit(s)**
- APR 120C - Boiler Design and Operation **4 Credit(s)**
- APR 120D - Steam Turbine Operation **4 Credit(s)**
- APR 120E - Boiler Instrumentation and Control **4 Credit(s)**
- APR 120F - Heating Boiler Operation - Install **4 Credit(s)**

Total Boiler Operator and Repairer Program Credits Required: 24

For more information, contact the Apprenticeship Department:

Phone: 541-956-7500

Email: ApprenticeshipInfo@roguecc.edu

Web address: www.roguecc.edu/apprenticeship

TTY: Oregon Telecom Relay Service, 711

Construction Trades General Apprenticeship

Certificate of Completion

About the Program

The Construction Trades, General Apprenticeship certificate program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. The certificate is available only to BOLI-registered apprentices. If you are interested in becoming registered in an Oregon state apprenticeship program, contact the Apprenticeship office at ApprenticeshipInfo@roquecc.edu. RCC supports the following BOLI-ATD trades: HVAC/R, Plumber and Sheet Metal (8,000-hour trades).

The certificate is a credential within Rogue Community College's Construction Trades, General Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, a ladder-type certificate of completion, and an optional transfer path into a Bachelor of Science degree at Oregon Tech. This program features general education courses prescribed by Rogue Community College, related training credits, college credit for an earned journey-level card, and industry electives. It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program Learning Outcomes for the Construction Trades General Apprenticeship Certificate of Completion are:

Complete a minimum of 4,000 to 8,000 hours State of Oregon-approved on-the-job training (OJT).

Repair, install, and maintain building construction projects using trade specific tools and techniques in compliance with building codes and OSHA regulations.

Complete a minimum of 288 to 576 State of Oregon-approved related training hours in the classroom.

Complete required related training with a grade C- or better.

Entry Requirements

Students are required to show documentation when applying that they meet the minimum requirements to apply to the desired Apprenticeship Program. Students are required to complete the Placement Process to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill level as determined by placement.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and approval of the Department Chair. Credits earned in the successful completion of

Career Pathways Certificates can be applied to other certificates and degrees in the Career Pathway.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship Certificate and be recommended by the Joint Apprenticeship and Training Committee or the Trades Apprenticeship and Training Committee. This certificate does not guarantee licensure.

Program email address: ApprenticeshipInfo@roquecc.edu

General Education Requirements

- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or MTH 102CT or higher-level math
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Total General Education Credits: 10-11

HVAC/R

- APR 107A - HVAC Basics **4 Credit(s)**
- APR 107B - HVAC Air Conditioning and Refrig **4 Credit(s)**
- APR 107C - HVAC Safety and Environ Controls **4 Credit(s)**
- APR 107D - HVAC Electrical Basics **4 Credit(s)**
- APR 107E - HVAC Electrical Circuit I **4 Credit(s)**
- APR 107F - HVAC Electrical Circuit II **4 Credit(s)**
- APR 207A - HVAC Systems I **4 Credit(s)**
- APR 207B - HVAC Systems II **2 Credit(s)**
- APR 207C - HVAC Systems III **2 Credit(s)**
- APR 207D - HVAC Airflow and Systems Control I **4 Credit(s)**
- APR 207F - HVAC Operation and Systems Review **4 Credit(s)**
- APR 211A - Water Supply Systems **4 Credit(s)**

Total HVAC Credits: 44

Plumber

- APR 111A - Introduction to Plumbing Skills **4 Credit(s)**
- APR 111B - Plumbing Principles I **4 Credit(s)**
- APR 111C - Plumbing Principles II **4 Credit(s)**
- APR 111D - Plumbing Commercial Drawing Math **4 Credit(s)**
- APR 111E - Water Piping and Fixture Install **4 Credit(s)**
- APR 111F - DWV Systems - Water Heaters Install **4 Credit(s)**
- APR 211A - Apprenticeship/Water Supply Systems **4 Credit(s)**
- APR 211B - Plumbing DWV and Compressed Air **4 Credit(s)**
- APR 211C - Plumbing Backflow Prevention **4 Credit(s)**
- APR 211D - Review of Oregon Plumbing Code **4 Credit(s)**
- APR 211E - Plumbing Test Prep I **4 Credit(s)**
- APR 211F - Plumbing Test Prep II **4 Credit(s)**

Total Plumbing Credits: 48

Sheet Metal

- APR 118A - Introduction to Sheet Metal **3 Credit(s)**
- APR 118B - Intro to Sheet Metal Duct Lay Out **3 Credit(s)**
- APR 118C - Sheet Metal Parallel Line Design **3 Credit(s)**
- APR 118D - Sheet Metal - Advanced Fittings **3 Credit(s)**
- APR 118E - Sheet Metal - Plans and Details **3 Credit(s)**
- APR 118F - Architectural Sheet Metal **3 Credit(s)**
- APR 218A - Sheet Metal - AutoCAD Basics **3 Credit(s)**
- APR 218B - Sheet Metal - Basic Welding **3 Credit(s)**
- APR 218C - Sheet Metal - Advanced Welding **3 Credit(s)**
- APR 218D - Sheet Metal - Brazing and Soldering **3 Credit(s)**
- APR 218E - Sheet Metal - SMACNA **3 Credit(s)**
- APR 218F - Sheet Metal - Project Management **3 Credit(s)**

Total Sheet Metal Credits: 36

Total Program Credits: 46-59

For more information, contact the Apprenticeship Department:

Phone: 541-956-7500

Email: ApprenticeshipInfo@roguecc.edu

Web address: www.roguecc.edu/apprenticeship

TTY: Oregon Telecom Relay Service, 711

Electrician Apprenticeship Technologies

Certificate of Completion

About the Program

The Electrician Apprenticeship Technologies program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. The certificate is available only to BOLI-registered apprentices. If you are interested in becoming a registered apprentice in an Oregon state apprenticeship program, contact the Apprenticeship office at ApprenticeshipInfo@roguecc.edu. RCC supports the following 8,000-hour BOLI-ATD trades: inside electrician, limited manufacturing plant electrician, and sign assembler/maker.

This certificate is a credential within Rogue Community College's Electrician Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, ladder-type certificates of completion, and an optional transfer path into a Bachelor of Science degree at the Oregon Tech. The certificate features general education courses prescribed by Rogue Community College and related training credits focusing on the repair or installation of electrical wire devices according to National Electrical Code (NEC) and Oregon Specific Codes (OSC). It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program Learning Outcomes for the Electrician Apprenticeship Technologies Certificate of Completion are:

Complete a minimum of 8,000 hours State of Oregon-approved on-the-job training (OJT).

Repair and install electrical wire devices according to licensure regulations to meet NEC and OSC guidelines.

Repair and install electrical wire devices according to licensure regulations to meet NEC and OSC for inside electrician, limited energy technician-license A, limited manufacturing plant electrician, sign assembler/fabricator, sign maker/erector, and stationary engineer.

Complete a minimum of 576 State of Oregon-approved related training hours in the classroom.

Complete required related training with a grade C- or better.

Entry Requirements

Students are required to show documentation when applying that they meet the minimum requirements to apply to the desired Apprenticeship Program. Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined by placement.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and approval of the Department Chair. Credits earned in the successful completion of Career Pathway Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship Certificate and be recommended by the Joint Apprenticeship and Training Committee or the Trades Apprenticeship and Training Committee. This certificate does not guarantee licensure.

Program email address: ApprenticeshipInfo@roquecc.edu

General Education Requirements

- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or MTH 102CT or higher-level math
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Total General Education Credits: 10-11

Related Training

Inside Electrician

- APR 127A - Electrical Theory I **4 Credit(s)**
- APR 127B - Electrical Theory II **4 Credit(s)**
- APR 127C - Electrical Theory III **4 Credit(s)**
- APR 127D - Advanced Electrical I **4 Credit(s)**
- APR 127E - Advanced Electrical II **4 Credit(s)**
- APR 127F - Advanced Electrical III **4 Credit(s)**
- APR 227A - National Electrical Code I **4 Credit(s)**
- APR 227B - National Electrical Code II **4 Credit(s)**
- APR 227C - National Electrical Code III **4 Credit(s)**
- APR 227D - Oregon Electrical License Prep I **4 Credit(s)**
- APR 227E - Oregon Electrical License Prep II **4 Credit(s)**

- APR 227F - Oregon Electrical License Prep III **4 Credit(s)**

Total Inside Electrician Credits: 48

Manufacturing Plant Electrician

- APR 127A - Electrical Theory I **4 Credit(s)**
- APR 127B - Electrical Theory II **4 Credit(s)**
- APR 127C - Electrical Theory III **4 Credit(s)**
- APR 127D - Advanced Electrical I **4 Credit(s)**
- APR 127E - Advanced Electrical II **4 Credit(s)**
- APR 227A - National Electrical Code I **4 Credit(s)**
- APR 227B - National Electrical Code II **4 Credit(s)**
- APR 227C - National Electrical Code III **4 Credit(s)**
- APR 227D - Oregon Electrical License Prep I **4 Credit(s)**
- APR 227E - Oregon Electrical License Prep II **4 Credit(s)**
- APR 227F - Oregon Electrical License Prep III **4 Credit(s)**

Total Manufacturing Plant Electrician Credits: 44

Sign Assembler/Maker

- APR 116E - Millwright Welding I **2 Credit(s)**
- APR 116F - Millwright Welding II **2 Credit(s)**
- APR 118A - Introduction to Sheet Metal **3 Credit(s)**
- APR 118B - Intro to Sheet Metal Duct Lay Out **3 Credit(s)**
- APR 118C - Sheet Metal Parallel Line Design **3 Credit(s)**
- APR 127A - Electrical Theory I **4 Credit(s)**
- APR 127B - Electrical Theory II **4 Credit(s)**
- APR 127C - Electrical Theory III **4 Credit(s)**
- APR 216C - Millwright Drafting **4 Credit(s)**
- APR 216F - Millwright Rigging **4 Credit(s)**
- APR 227E - Oregon Electrical License Prep II **4 Credit(s)**
- APR 227F - Oregon Electrical License Prep III **4 Credit(s)**

Total Sign Assembler/Maker Credits: 40

Total Program Credits Required: 50-59

For more information, contact the Apprenticeship Department:

Phone: 541-956-7500

Email: ApprenticeshipInfo@roguecc.edu

Web address: www.roguecc.edu/apprenticeship

TTY: Oregon Telecom Relay Service, 711

Electrician Apprenticeship Technologies - Limited

Electrician Apprenticeship Technologies

Certificate of Completion

About the Program

The Limited Electrician Apprenticeship Technologies less than one-year certificate program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. This certificate is available only to BOLI-registered apprentices. If you are interested in becoming a registered apprentice in an Oregon state apprenticeship program, contact the Apprenticeship office at ApprenticeshipInfo@roguecc.edu. RCC supports the 4,000-hour BOLI-ATD trade limited maintenance electrician.

The certificate is a credential within Rogue Community College's Electrician Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, ladder-type certificates of completion, and an optional transfer path into a Bachelor of Science degree at Oregon Tech. The certificate features related training credits specific to the limited maintenance electrician trade in order to repair or install electrical wire devices according to National Electrical Code (NEC) and Oregon Specific Codes (OSC). It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program Learning Outcomes for the Electrician Apprenticeship Technologies Limited Certificate of Completion are:

Complete 4,000 hours State of Oregon-approved on-the-job-training (OJT).

Repair and install electrical wire devices according to licensure regulations to meet NEC & OSC guidelines.

Repair or install electrical wire devices according to limited licensure regulations to meet NEC and OSC code for limited energy technician-license B, limited maintenance electrician, limited renewable energy technician, and limited residential electrician.

Complete a minimum of 288 State of Oregon-approved related training hours in the classroom.

Complete all required related training with a grade of C- or better.

Entry Requirements

Students are required to show documentation when applying that they meet the minimum requirements to apply to the desired Apprenticeship Program. Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined by placement.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and approval of the Department Chair. Credits earned in the successful completion of Career Pathway Certificates can be applied to other certificates and degrees in the Career Pathway.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship Certificate and be recommended by the Joint Apprenticeship and Training Committee or Trades Apprenticeship and Training Committee. This certificate does not guarantee licensure.

Related Training

- APR 127A - Electrical Theory I **4 Credit(s)**
- APR 127B - Electrical Theory II **4 Credit(s)**
- APR 127C - Electrical Theory III **4 Credit(s)**
- APR 227A - National Electrical Code I **4 Credit(s)**
- APR 227B - National Electrical Code II **4 Credit(s)**
- APR 227C - National Electrical Code III **4 Credit(s)**

Total Program Credits Required: 24

For more information, contact the Apprenticeship Department:

Phone: 541-956-7500

Email: ApprenticeshipInfo@roquecc.edu

Web address: www.roquecc.edu/apprenticeship

TTY: Oregon Telecom Relay Service, 711

Industrial Mechanics and Maintenance Technology Apprenticeship

Certificate of Completion

About the Program

The Industrial Mechanics and Maintenance Technology Apprenticeship certificate program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint and Trade Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. This certificate is available only to BOLI-registered apprentices. If you are interested in becoming a registered apprentice in an Oregon state apprenticeship program, contact the Apprenticeship office at ApprenticeshipInfo@roquecc.edu. RCC supports this 8,000-hour BOLI-ATD trade: millwright.

The certificate is a credential within Rogue Community College's Industrial Mechanics and Maintenance Technology Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, ladder-type certificates of completion, and an optional transfer path into a Bachelor of Science degree at the Oregon Tech. It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Industrial Mechanics and Maintenance Technology Apprenticeship Certificate of Completion are:

Complete a minimum of 8,000 hours State of Oregon approved on-the-job training (OJT).

Repair, install and maintain industrial equipment using trade specific tools and techniques in compliance with state regulations.

Complete a minimum of 576 State of Oregon-approved related training hours in the classroom.

Complete required related training with a grade C- or better.

Entry Requirements

Students are required to show documentation when applying that they meet the minimum requirements to apply to the desired Apprenticeship Program. Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined by placement.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and approval of the Department Chair. Credits earned in the successful completion of

Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship certificate and be recommended by the Joint Apprenticeship and Training Committee or the Trades Apprenticeship and Training Committee. This certificate does not guarantee licensure.

Program email address: ApprenticeshipInfo@roquecc.edu

General Education Requirements

- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or MTH 102CT or higher-level math
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Total General Education Credits: 10-11

Machinist

- APR 104A - Machinist Blueprint Reading **2 Credit(s)**
- APR 106A - Machinist CAD I Mech - Autodesk **2 Credit(s)**
- APR 106B - Machinist CAD I Mech - SolidWorks **2 Credit(s)**
- APR 112A - Machinist Materials and Metallurgy **2 Credit(s)**
- APR 113A - Machinist - MFG Processes I **2 Credit(s)**
- APR 113B - Machinist - MFG Processes II **2 Credit(s)**
- APR 113C - Machinist - MFG Processes III **2 Credit(s)**
- APR 201A - Machinist - CNC Controls **2 Credit(s)**
- APR 201B - Machinist CNC Programming - Mill **2 Credit(s)**
- APR 201C - Machinist CNC Programming - Lathe **2 Credit(s)**
- APR 202A - Machinist CAM I Mastercam 2D **2 Credit(s)**
- APR 202B - Machinist CAM II Mastercam 3D **2 Credit(s)**
- APR 202C - Machinist Mastercam 4th Axis Prgmg **2 Credit(s)**
- APR 203A - Machinist Welding Fundamentals I **2 Credit(s)**

- APR 203B - Machinist Welding Fundamentals II **2 Credit(s)**

Total Machinist Credits: 30

Millwright

- APR 116A - Millwright Basic Electricity **4 Credit(s)**
- APR 116C - Millwright Power Transmission **2 Credit(s)**
- APR 116D - Millwright Boilers **4 Credit(s)**
- APR 116E - Millwright Welding I **2 Credit(s)**
- APR 116F - Millwright Welding II **2 Credit(s)**
- APR 216A - Millwright Machine Shop I **2 Credit(s)**
- APR 216B - Millwright Machine Shop II **2 Credit(s)**
- APR 216C - Millwright Drafting **4 Credit(s)**
- APR 216D - Millwright Industrial Hydraulics I **2 Credit(s)**
- APR 216E - Millwright Industrial Hydraulics II **2 Credit(s)**
- APR 216F - Millwright Rigging **4 Credit(s)**
- APR 216G - Millwright Industrial Pneumatics **2 Credit(s)**

Total Millwright Credits: 32

Total Program Credits Required: 40-43

For more information, contact the Apprenticeship Department:

Phone: 541-956-7500

Email: ApprenticeshipInfo@roguecc.edu

Web address: www.roguecc.edu/apprenticeship

TTY: Oregon Telecom Relay Service, 711

Construction Trades General Apprenticeship

Associate of Applied Science

About the Program

The Construction Trades, General Apprenticeship program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. The degree is available only to BOLI-registered apprentices. If you are interested in becoming a registered apprenticeship in an Oregon state apprenticeship program, contact the Apprenticeship office at ApprenticeshipInfo@roquecc.edu.

RCC supports the following BOLI-ATD trades: HVAC/R, plumber and sheet metal (8,000-hour trades). It combines full-time, on-the-job work experience with trade-related theoretical instruction. This certificate is a limited entry program available only to BOLI-registered apprentices.

The AAS degree is a credential within Rogue Community College's Construction Trades, General Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, ladder-type certificate of completion, and an optional transfer path into a Bachelor of Science degree at Oregon Tech. The degree features general education courses prescribed by Rogue Community College, related training credits previously earned in the certificate of completion, college credit for an earned journey-level card, and industry electives. It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

If students intend to transfer to Southern Oregon University's Bachelor of Applied Science degree program, transfer courses should be chosen from the list of electives where possible. See an advisor for more information or visit www.sou.edu/degreecompletion.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program Learning Outcomes for the Construction Trades General Apprenticeship Associate of Applied Science are:

Complete a minimum of 8,000 hours State of Oregon-approved on-the-job training (OJT).

Repair, install and maintain building construction projects using trade specific tools and techniques in compliance with building codes and OSHA regulations.

Seventy-five percent of applicants will have documented trade-specific skills listed on the Construction Trades, General Apprenticeship Outcomes Assessment Tool.

Complete a minimum of 576 State of Oregon-approved related training hours in the classroom.

Complete required related training with a grade C- or better.

Entry Requirements

Students are required to show documentation when applying that they meet the minimum requirements to apply to the desired Apprenticeship Program. Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As

part of their training program, students must begin with the courses within their skill level as determined by placement.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and approval of the Department Chair.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship Certificate and be recommended by the Joint Apprenticeship and Training Committee or Trades Apprenticeship and Training Committee. This degree does not guarantee licensure.

Program email address: ApprenticeshipInfo@roquecc.edu

General Education Requirements

- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or MTH 102CT or higher-level math course
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Total General Education Credits: 10-11

Other Required Course(s)

- COMM 111Z - Public Speaking **4 Credit(s)** or higher-level COMM course

Total Other Required Course(s): 3-4

Credit for Prior Certification (Work-based Learning)

See footnote 1

- APR 105CO - Apprenticeship CPL - Construction **Var. (11-22) Credit(s)**
- HVAC/R (22 credits)
- Plumber (22 credits)
- Sheet Metal (22 credits)

Total Credit for Prior Certification: 22

HVAC/R

- APR 107A - HVAC Basics **4 Credit(s)**
- APR 107B - HVAC Air Conditioning and Refrig **4 Credit(s)**
- APR 107C - HVAC Safety and Environ Controls **4 Credit(s)**
- APR 107D - HVAC Electrical Basics **4 Credit(s)**
- APR 107E - HVAC Electrical Circuit I **4 Credit(s)**
- APR 107F - HVAC Electrical Circuit II **4 Credit(s)**
- APR 207A - HVAC Systems I **4 Credit(s)**
- APR 207B - HVAC Systems II **2 Credit(s)**
- APR 207C - HVAC Systems III **2 Credit(s)**
- APR 207D - HVAC Airflow and Systems Control I **4 Credit(s)**
- APR 207F - HVAC Operation and Systems Review **4 Credit(s)**
- APR 211A - Water Supply Systems **4 Credit(s)**

Total HVAC Credits: 44

Plumber

- APR 111A - Introduction to Plumbing Skills **4 Credit(s)**
- APR 111B - Plumbing Principles I **4 Credit(s)**
- APR 111C - Plumbing Principles II **4 Credit(s)**
- APR 111D - Plumbing Commercial Drawing Math **4 Credit(s)**
- APR 111E - Water Piping and Fixture Install **4 Credit(s)**
- APR 111F - DWV Systems - Water Heaters Install **4 Credit(s)**
- APR 211A - Water Supply Systems **4 Credit(s)**
- APR 211B - Plumbing DWV and Compressed Air **4 Credit(s)**
- APR 211C - Plumbing Backflow Prevention **4 Credit(s)**
- APR 211D - Review of Oregon Plumbing Code **4 Credit(s)**
- APR 211E - Plumbing Test Prep I **4 Credit(s)**
- APR 211F - Plumbing Test Prep II **4 Credit(s)**

Total Plumbing Credits: 48

Sheet Metal

- APR 118A - Introduction to Sheet Metal **3 Credit(s)**
- APR 118B - Intro to Sheet Metal Duct Lay Out **3 Credit(s)**
- APR 118C - Sheet Metal Parallel Line Design **3 Credit(s)**
- APR 118D - Sheet Metal - Advanced Fittings **3 Credit(s)**
- APR 118E - Sheet Metal - Plans and Details **3 Credit(s)**
- APR 118F - Architectural Sheet Metal **3 Credit(s)**
- APR 218A - Sheet Metal - AutoCAD Basics **3 Credit(s)**
- APR 218B - Sheet Metal - Basic Welding **3 Credit(s)**
- APR 218C - Sheet Metal - Advanced Welding **3 Credit(s)**
- APR 218D - Sheet Metal - Brazing and Soldering **3 Credit(s)**
- APR 218E - Sheet Metal - SMACNA **3 Credit(s)**
- APR 218F - Sheet Metal - Project Management **3 Credit(s)**

Total Sheet Metal Credits: 36

Approved Program Electives

- Any college-level course (numbered 100 or above) to meet minimum degree requirement
5-19 Credit(s)

Minimum Total Program Credits: 90

Notes:

¹ A maximum of 22 credits can be earned for documented work-based learning for registered apprentices and journey persons. Students must provide a State of Oregon Apprenticeship Training Journeyman card or BOLI-ATD certificate.

For more information, contact the Apprenticeship Department:

Phone: 541-956-7500

Email: ApprenticeshipInfo@roguecc.edu

Web address: www.roguecc.edu/apprenticeship

TTY: Oregon Telecom Relay Service, 711

Electrician Apprenticeship Technologies

Associate of Applied Science

About the Program

The Electrician Apprenticeship Technologies program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. The degree is available only to BOLI-registered apprentices or electricians holding a journey-level card. If you are interested in becoming a registered apprentice in an Oregon state apprenticeship program, contact the Apprenticeship office at ApprenticeshipInfo@roquecc.edu. RCC supports the following BOLI-ATD trades: limited maintenance electrician (4,000-hour trade); inside electrician, limited manufacturing plant electrician, and sign maker/erector (8,000-hour trades).

The AAS degree is a credential within Rogue Community College's Electrician Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, ladder-type certificates of completion, and an optional transfer path into a Bachelor of Science degree at Oregon Tech. The degree features general education courses prescribed by Rogue Community College, related training credits previously earned in the certificate of completion, college credit for an earned journey-level card, and some industry electives. It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for Electrician Apprenticeship Technologies Associate of Applied Science are:

Complete a minimum of 4,000 to 8,000 State of Oregon-approved on-the-job-training. Apply theory to electrical wiring.

Repair and install electrical wire devices according to licensure regulations to meet National Electrical Code (NEC) and Oregon Specific Code (OSC) guidelines.

Seventy-five percent of applicants will have documented trade-specific skills listed on the Electrician Apprenticeship Trades Outcomes Assessment Tool.

Complete a minimum of 576 State of Oregon-approved related training hours in the classroom.

Complete all required related training with a grade of C- or better.

Entry Requirements

Students are required to show documentation when applying that they meet the minimum requirements to apply to the desired Apprenticeship Program. Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined by placement.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and approval of the Department Chair. Credits earned in the successful completion of Career Pathways Certificates can be applied to other certificates and degrees in the Career Pathway.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship Certificate and be recommended by the Joint Apprenticeship and Training Committee or Trades Apprenticeship and Training Committee. This degree does not guarantee licensure.

Program email address: ApprenticeshipInfo@roquecc.edu

General Education Requirements

- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or MTH 102CT or higher-level math
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Total General Education Credits: 10-11

Other Required Course(s)

- COMM 111Z - Public Speaking **4 Credit(s)** or higher-level COMM course

Other Required Course(s): 3-4

Credit for Prior Certification (Work-based Learning)

See footnote 1. A maximum of 22 credits can be earned for documented work-based learning for registered apprentices and journey persons. Students must provide a State of Oregon Apprenticeship Training Journeyman card or BOLI-ATD certificate.

Total Credit for Prior Certification: 11-22

Related Training

Limited Maintenance Electrician

- APR 127A - Electrical Theory I **4 Credit(s)**

- APR 127B - Electrical Theory II **4 Credit(s)**
- APR 127C - Electrical Theory III **4 Credit(s)**
- APR 227A - National Electrical Code I **4 Credit(s)**
- APR 227B - National Electrical Code II **4 Credit(s)**
- APR 227C - National Electrical Code III **4 Credit(s)**

Total Limited Maintenance Electrician Credits: 24

Inside Electrician

- APR 127A - Electrical Theory I **4 Credit(s)**
- APR 127B - Electrical Theory II **4 Credit(s)**
- APR 127C - Electrical Theory III **4 Credit(s)**
- APR 127D - Advanced Electrical I **4 Credit(s)**
- APR 127E - Advanced Electrical II **4 Credit(s)**
- APR 127F - Advanced Electrical III **4 Credit(s)**
- APR 227A - National Electrical Code I **4 Credit(s)**
- APR 227B - National Electrical Code II **4 Credit(s)**
- APR 227C - National Electrical Code III **4 Credit(s)**
- APR 227D - Oregon Electrical License Prep I **4 Credit(s)**
- APR 227E - Oregon Electrical License Prep II **4 Credit(s)**
- APR 227F - Oregon Electrical License Prep III **4 Credit(s)**

Total Inside Electrician Credits: 48

Manufacturing Plant Electrician

- APR 127A - Electrical Theory I **4 Credit(s)**
- APR 127B - Electrical Theory II **4 Credit(s)**
- APR 127C - Electrical Theory III **4 Credit(s)**
- APR 127D - Advanced Electrical I **4 Credit(s)**
- APR 127E - Advanced Electrical II **4 Credit(s)**
- APR 227A - National Electrical Code I **4 Credit(s)**
- APR 227B - National Electrical Code II **4 Credit(s)**

- APR 227C - National Electrical Code III **4 Credit(s)**
- APR 227D - Oregon Electrical License Prep I **4 Credit(s)**
- APR 227E - Oregon Electrical License Prep II **4 Credit(s)**
- APR 227F - Oregon Electrical License Prep III **4 Credit(s)**

Total Manufacturing Plant Electrician Credits: 44

Sign Assembler/Maker

- APR 116E - Millwright Welding I **2 Credit(s)**
- APR 116F - Millwright Welding II **2 Credit(s)**
- APR 118A - Introduction to Sheet Metal **3 Credit(s)**
- APR 118B - Intro to Sheet Metal Duct Lay Out **3 Credit(s)**
- APR 118C - Sheet Metal Parallel Line Design **3 Credit(s)**
- APR 127A - Electrical Theory I **4 Credit(s)**
- APR 127B - Electrical Theory II **4 Credit(s)**
- APR 127C - Electrical Theory III **4 Credit(s)**
- APR 216C - Millwright Drafting **4 Credit(s)**
- APR 216F - Millwright Rigging **4 Credit(s)**
- APR 227E - Oregon Electrical License Prep II **4 Credit(s)**
- APR 227F - Oregon Electrical License Prep III **4 Credit(s)**

Total Sign Assembler/Maker Credits: 40

Approved Program Electives

- Any college-level course (numbered 100 or above) to meet minimum degree requirement **5-42 Credit(s)**

Minimum Total Program Credits Required: 90

Notes:

¹ A maximum of 22 credits can be earned for documented work-based learning for registered apprentices and journey persons. Students must provide a State of Oregon Apprenticeship Training Journeyman card or BOLI-ATD certificate.

For more information, contact the Apprenticeship Department:

Phone: 541-956-7500

Email: ApprenticeshipInfo@roguecc.edu

Web address: www.roguecc.edu/apprenticeship

TTY: Oregon Telecom Relay Service, 711

Industrial Mechanics and Maintenance Technology Apprenticeship

Associate of Applied Science

About the Program

The Industrial Mechanics and Maintenance Technology Apprenticeship program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint and Trades Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. The degree is available only to BOLI-registered apprentices. If you are interested in becoming a registered apprentice in an Oregon state apprenticeship program, contact the Apprenticeship office at ApprenticeshipInfo@roquecc.edu. RCC supports these BOLI-ATD trades: airframe/power plant technician and boiler operator (4,000 hours); and millwright (8,000 hours).

This AAS degree is a credential within Rogue Community College's Industrial Mechanics and Maintenance Technology Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, ladder-type certificates of completion, and an optional transfer path into a Bachelor of Science degree at Oregon Tech. If students intend to transfer to Southern Oregon University's Bachelor of Applied Science degree program, transfer courses should be chosen from the list of electives where possible. See an advisor for more information or visit www.sou.edu/degreecompletion.

The degree features general education courses prescribed by Rogue Community College, related training credits previously earned in the certificate of completion, college credit for an earned journey-level card, and some industry electives. It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for Industrial Mechanics and Maintenance Technology Apprenticeship Associate of Applied Science are:

Complete a minimum of 4,000 to 8,000 hours State of Oregon approved on-the-job training (OJT).

Repair, install and maintain industrial equipment using trade specific tools and techniques in compliance with state regulations.

Complete a minimum of 288 to 576 State of Oregon-approved related training hours in the classroom.

Complete required related training with a grade C- or better.

Entry Requirements

Students are required to show documentation when applying that they meet the minimum requirements to apply to the desired Apprenticeship Program. Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As

part of their training program, students must begin with the courses within their skill level as determined by placement.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and approval of the Department Chair. Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

Students must complete all courses in this program with a grade of "C-" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C-" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship certificate and be recommended by the Joint Apprenticeship and Training Committee or Trades Apprenticeship and Training Committee. This degree does not guarantee licensure.

Program email address: ApprenticeshipInfo@roquecc.edu

General Education Requirements

- BA 120 - Human Relations in Organizations **3 Credit(s)** or PSY 101
- MTH 60 - Fundamentals of Algebra I **4 Credit(s)** or MTH 102CT or higher-level math
- WR 117 - Writing for CTE Professionals **3 Credit(s)** or WR 115 or higher-level writing course
- WR 115Q - Corequisite Support for WR115 **1 Credit(s)** as required based on placement

Total General Education Credits: 10-11

Other Required Course(s)

- COMM 111Z - Public Speaking **4 Credit(s)** or higher-level COMM course

Other Required Course(s): 3-4

Credit for Prior Certification (Work-based Learning)

- APR 105IM - Apprenticeship CPL - Industrial **Var. (11-22) Credit(s)**
- Airframe and Power Plant Technician (16 credits)
- Boiler Operator (11 credits)
- Millwright (22 credits)

Total Credit for Prior Certification: 11-22

Airframe and Power Plant Technician

- APR 129A - Aviation General I **6 Credit(s)**
- APR 129B - Aviation General II **6 Credit(s)**
- APR 129C - Aviation General III **6 Credit(s)**
- APR 129F - Aviation Airframe I **3 Credit(s)**
- APR 229A - Aviation Airframe II **6 Credit(s)**
- APR 229B - Aviation Powerplant I **6 Credit(s)**
- APR 229C - Aviation Powerplant II **4 Credit(s)**

Total Program Credits Required: 37

Boiler Operator & Repairer

- APR 120A - Introduction to Boiler Operation **4 Credit(s)**
- APR 120B - Mechanics of Steam Generated Power **4 Credit(s)**
- APR 120C - Boiler Design and Operation **4 Credit(s)**
- APR 120D - Steam Turbine Operation **4 Credit(s)**
- APR 120E - Boiler Instrumentation and Control **4 Credit(s)**
- APR 120F - Heating Boiler Operation - Install **4 Credit(s)**

Total Program Credits Required: 24

Machinist

- APR 104A - Machinist Blueprint Reading **2 Credit(s)**
- APR 106A - Machinist CAD I Mech - Autodesk **2 Credit(s)**
- APR 106B - Machinist CAD I Mech - SolidWorks **2 Credit(s)**
- APR 112A - Machinist Materials and Metallurgy **2 Credit(s)**
- APR 113A - Machinist - MFG Processes I **2 Credit(s)**
- APR 113B - Machinist - MFG Processes II **2 Credit(s)**
- APR 113C - Machinist - MFG Processes III **2 Credit(s)**
- APR 201A - Machinist - CNC Controls **2 Credit(s)**
- APR 201B - Machinist CNC Programming - Mill **2 Credit(s)**
- APR 201C - Machinist CNC Programming - Lathe **2 Credit(s)**

- APR 202A - Machinist CAM I Mastercam 2D **2 Credit(s)**
- APR 202B - Machinist CAM II Mastercam 3D **2 Credit(s)**
- APR 202C - Machinist Mastercam 4th Axis Prgmg **2 Credit(s)**
- APR 203A - Machinist Welding Fundamentals I **2 Credit(s)**
- APR 203B - Machinist Welding Fundamentals II **2 Credit(s)**

Total Machinist Credits: 30

Millwright

- APR 116A - Millwright Basic Electricity **4 Credit(s)**
- APR 116C - Millwright Power Transmission **2 Credit(s)**
- APR 116D - Millwright Boilers **4 Credit(s)**
- APR 116E - Millwright Welding I **2 Credit(s)**
- APR 116F - Millwright Welding II **2 Credit(s)**
- APR 216A - Millwright Machine Shop I **2 Credit(s)**
- APR 216B - Millwright Machine Shop II **2 Credit(s)**
- APR 216C - Millwright Drafting **4 Credit(s)**
- APR 216D - Millwright Industrial Hydraulics I **2 Credit(s)**
- APR 216E - Millwright Industrial Hydraulics II **2 Credit(s)**
- APR 216F - Millwright Rigging **4 Credit(s)**
- APR 216G - Millwright Industrial Pneumatics **2 Credit(s)**

Total Program Credits Required: 32

Approved Program Electives

16-42 Credits

- Any college-level course (numbered 100 or above) to meet minimum degree requirement

Minimum Total Program Credits Required: 90

Notes:

¹ A maximum of 22 credits can be earned for documented work-based learning for registered apprentices and journey persons. Students must provide a State of Oregon Apprenticeship Training Journeyman card or BOLI-ATD certificate.

For more information, contact the Apprenticeship Department:

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Community and Workforce Training

Community Education

541-956-7303

[Community Education](#) courses are designed to enhance personal enrichment and support life long learning. There are a wide variety of courses offered and an opportunity for community members to submit a request to offer courses not otherwise represented. Community Education courses include, but are not limited to:

- Arts and Crafts
- Culinary
- Music and Theater
- Language Arts
- Home and Garden
- Personal Finance and Retirement
- Creative Writing
- Fitness and Recreation

Customized Training

Jackson or Josephine counties. 541-956-7303

RCC Continuing Education can [customize workforce training](#) for local employers. Contact us for details.

Driver Education

541-956-7116

The Rogue Community College [Driver Education Program](#) provides teens and young adults with the opportunity to acquire the needed skills to be safe, competent drivers throughout their lives. Our ODOT approved traffic safety course consists of 30 hours of classroom instruction and 12 hours in the car (6 hours behind-the-wheel and 6 hours of observation). A driver's permit is required prior to entering courses.

Small Business Development Center

541-956-7494

The [Small Business Development Center](#) (SBDC) is a community-based technical assistance resource available to both existing and prospective small businesses. The RCC Small Business Development Center welcomes you to our offices on the Rogue Community College Redwood

Campus, Building B, located just off Redwood Highway/199, at the West Entrance. Staffed by former small business owners and professionals, the SBDC offers:

- Free and confidential one-on-one advising
- Business training courses
- Industry and market research assistance

Funded through a partnership with the U.S. Small Business Administration, Business Oregon, the City of Grants Pass, Josephine County and Rogue Community College, the SBDC has been offering business assistance in the Rogue Valley since 1984. Typical areas of business advising and training include:

- Smart Start Your Business
- Business Planning
- Marketing Strategies
- Social Media/Technology for Your Business
- Personnel Management Issues
- Business Loan Packaging
- Financial Analysis
- Bookkeeping and Recordkeeping
- CCB and LCB Continuing Education
- Construction/Contractor pre-licensing
- Strategic Planning

Illinois Valley Business Entrepreneurial Center (IVBEC)

Kerby Belt Building, 24353 Redwood Hwy., Kerby, OR | 541-956- 7400

The RCC SBDC provides an accessible rural outreach center located in the Kerby building training center. One-on-one advising services, business training opportunities, and support resources are available at this location for both existing and prospective business owners of the Illinois Valley. This center also features meeting space, a computer lab, and a commercial kitchen available to entrepreneurs.

Small Business Management (SBM)

541-956-7494

The [Small Business Management](#) experience is designed to enable owners of established small businesses to be more successful in identifying and achieving their business goals. SBM is a highly effective training that has been offered in the Rogue Valley for over 25 years. It provides a client-tailored approach to business management practices that help business owners more effectively manage their operation and improve their bottom line.

The SBM nine-month curriculum is designed as an interactive classroom experience combined with one-on-one advising sessions. The course provides information and analysis tools that business owners can apply to achieve streamlined operations and improved profitability. The following topics are typically covered:

- Fundamental Business Practices
- Understanding Financial Management and Statements
- Principles of Marketing and E-Marketing
- Managing Cash Flow
- Employee Management and Supervision
- Strategic Management Principles
- Customer Service and Relations Management
- Leadership Principles and Managing Change
- Process Improvement and Quality Control

Workforce Training

541-956-7303

The [Community Education and Workforce Training](#) department empowers individuals and strengthens our region through accessible, high-quality learning. We offer industry-responsive training to support workforce growth and adaptability, while promoting lifelong learning and personal enrichment through community education-enhancing the quality of life in our communities.

[American Heart Association Training](#) Authorized American Heart Association Training Center Network serving Southern Oregon, offering several CPR/First Aid/AED/ACLS courses.

[Commercial Truck Driver Training](#) Class A and Class B, FMSCA registered Entry Level Driver provider.

[Community Health Worker](#) A 120-hour training, approved by the Oregon Health Authority, which will allow participants to be certified as a Community Health Worker in the state of Oregon.

[Individualized Career Training](#) (ICT) The Individualized Career Training department at RCC supports the Occupational and Employment Skills Training Certificates which combines RCC academic course work with on-the-job training. Programs are tailored to prepare students for employment in their chosen field.

[Employment Skills Training](#) (EST) A flexible, short-term training option (typically 1-2 terms) for students seeking quick entry into the workforce. EST plans are comprised of elective credits and on-the-job training that align with a specific occupational goal. EST can be used in conjunction with other degrees or certificates.

[Occupational Skills Training](#) (OST) A one-year credit certificate that combines college coursework with extended internships in local businesses with a focus on employment readiness and skills training.

[Forklift Operator Safety Training](#) Meets OSHA safety regulations for industry. The course contains both classroom and hands-on applications of safe forklift operation techniques, giving an operator safety card which is good for 3 years.

[Massage Therapy Continuing Education Units](#) These series of courses provide quality trainings to support and bolster licensed massage therapists.

[National Outdoor Leadership School \(NOLS\) Trainings](#) Wilderness medicine and leadership courses that provide certifications in Wilderness First Aid and Wilderness First Responder. [National Outdoor Leadership School \(NOLS\)](#)

[Nursing Assistant](#) Students who successfully complete this coursework and clinical hours will be able to apply to take the certification exam through the Oregon State Board of Nursing to become a Certified Nursing Assistant.

[Occupational Skills Training](#) (OST) one-year credit certificate that combines college coursework with extended internships in local businesses with a focus on employment readiness and skills training.

[Oregon Real Estate Broker License Training](#) This accelerated course prepares you to qualify for the Oregon Real Estate Broker's License Exam.

[Peer Support Specialist](#) A 56-hour Peer Support Specialist (PSS) certification training, approved by the Oregon Health Authority. Graduates can register as a peer support specialist within the state of Oregon.

[Property Management License Training](#) The class will prepare you to take the state exam and is taught by a licensed property manager. The course and instructor are certified by the OREA. State exam is not part of this class.

[Wildland Fire Continuing Education](#) Courses designed to support continuing education for wildland fire professionals.

[Customized Training](#) Targeted, custom-designed training in partnership with business, industry, K-12, and/or workforce development agencies.

Course Descriptions

Institutional Learning Outcomes (ILO):	Outcome:
Communication	Students will engage in effective communication using active reading and listening skills and expressing ideas appropriately in oral, written, and visual work.
Critical Thinking	Students will explore, reach, and support appropriate conclusions through the analysis, synthesis, and evaluation of information and varying opinions.
Equity, Diversity, Inclusion and Global Consciousness	Students will recognize and identify equity, diversity, inclusion and global consciousness as it applies to people and the world today.
Information Literacy	Students will identify an information need and to locate, evaluate, and use information effectively and ethically.
Quantitative Literacy and Reasoning	Students will reason through and solve quantitative problems by collecting and interpreting data and applying mathematical/statistical techniques.

Allied Health

AH 22 - Healthcare Calculations

3 Credit(s)

Prerequisite(s):

MTH 20 or designated placement.

Course Description: Teaches the calculations involved in the preparation and administration of pharmacological products. Topics include reading a prescription, converting measurements through dimensional analysis, dosage calculations and conversions, dilutions, concentrations, Total Parenteral Nutrition (TPN) milliliter-equivalents and industry related business math for Pharmacy Techs and Medical Assistants.

Course Learning Outcomes:

CLO#1: Read a prescription and define its meaning.

CLO#2: Identify and describe the components of dimensional analysis in unit conversion.

CLO#3: Use measurement techniques in various units to calculate proper medicine dosage.

CLO#4: Calculate accurate conversions, concentrations and dilutions. (ILO: Quantitative Literacy and Reasoning)

CLO#5: Identify and describe the components of the revenue cycle. Explain co-payments and calculate (AWP) insurance pricing.

Typical Required and Recommended Equipment and Materials: Scientific calculator (TI-30),

pencil, paper

ACTI Code and Course Type

351 Post-Secondary Remedial Math

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

AH 100 - Medical Terminology - Introduction

3 Credit(s)

Course Description: Provides a basic understanding of medical terminology using a word-building approach based on the systems of the human body. Prefixes, suffixes, word roots, combining forms, special endings, plural forms, abbreviations, and symbols are included in the content. Emphasis is placed on spelling, definition and usage.

Course Learning Outcomes:

CLO#1: Define and spell medical terms.

CLO#2: Construct and analyze medical terms. (ILO: Critical Thinking)

CLO#3: Describe basic anatomical terms and functions.

CLO#4: Explain the meaning of various medical abbreviations.

Typical Required and Recommended Equipment and Materials: Medical Terminology: The Basics. Publisher: Barcharts. ISBN: 9781572225381

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of thirty (30) and a standard RCC delivery of (33) lecture hours for one term, not to exceed (36) hours per term

AH 101 - Medical Assistant I Administrative

3 Credit(s)

Prerequisite(s):

Placement into WR 115

WR 115Q as required

Course Description: Covers a variety of topics including the role and scope of the medical assistant in a clinical front office environment. This includes an overview of recordkeeping, documentation and Electronic Health Records software. Students will be responsible for knowing insurance and billing, patient scheduling, and screening for patient check in are also included.

Course Learning Outcomes:

CLO#1: Identify and describe the role and scope of the Medical Assistant.

CLO#2: Perform entry-level administrative functions of medical assisting including patient check-in, screening, and completion of relevant documents for appointments. (ILO: Information Literacy)

CLO#3: Demonstrate and describe key principles of managed care, insurance plans, and current procedural coding systems.

CLO#4: Demonstrate medical record management and documentation.

CLO#5: Perform entry-level billing functions in an electronic medical record.

Typical Required and Recommended Equipment and Materials: Subscription to EHR GO software system.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

AH 102 - Medical Assistant II Clinical

4 Credit(s)

Prerequisite(s):

Placement into WR 115

WR 115Q as required

Course Description: Covers clinical topics for medical assisting. Students will learn how to collect a patient's history, prepare them for their appointments, provide instruction on patient care, take vital sign measurements, and assist provider with patient care. Calculating, administering, and recording medication will be addressed. Specimen collection, processing procedures, the use of personal protective equipment and infection control, and OSHA policies and procedures will be taught and reinforced.

Course Learning Outcomes:

CLO#1: Demonstrate proficiency in written and verbal communication within the simulated healthcare setting. (ILO: Communication)

CLO#2: Identify and implement proper infection control and safety standards.

CLO#3: Demonstrate clinical techniques used to assist providers with patient care, including rooming.

CLO#4: Obtain and distinguish between normal and abnormal vital signs.

CLO#5: Demonstrate procedures for calculating, preparing, administering and documenting medications.

CLO#6: Recognize and respond appropriately to simulated medical emergencies.

CLO#7: Perform CLIA waived specimen testing and collection procedures.

CLO#8: Describe student requirements for placement in a clinical.

Typical Required and Recommended Equipment and Materials: EHR GO software subscription.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term

AH 103 - Medical Assistant III Specialty

5 Credit(s)

Prerequisite(s):

AH 102

Course Description: Prepares students for medical assisting in specialty clinics. Students will learn how to perform specialty techniques and recognize the differences in treatment and diagnosis based on area of specialty. Students will demonstrate communication techniques that promote equity and diversity in each specialty area. Additionally, students will learn about clinical management and human resources in healthcare.

Course Learning Outcomes:

- CLO#1: Identify differences between specialty clinics in the medical community.
- CLO#2: Demonstrate written and verbal communication techniques and terminology within healthcare. (ILO: Communication)
- CLO#3: Identify and demonstrate competency in the tests and techniques used in each specialty area.
- CLO#4: Identify clinic management techniques and human resource procedures.
- CLO#5: Describe key principles of cardiac anatomy, physiology, and electrophysiology.
- CLO#6: Identify key principles in electrocardiogram (ECG) interpretation.
- CLO#7: Analyze conflict in the workplace and provide appropriate resolutions.

Typical Required and Recommended Equipment and Materials: EHR GO Software subscription

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (100) and a standard RCC delivery of (110) lecture/lab hours for term, not to exceed (120) hours per term.

AH 104 - Phlebotomy

3 Credit(s)

Prerequisite(s):

Acceptance into the Phlebotomy or Medical Assistant program.

Course Description: Introduces students to the concept of phlebotomy, including, but not limited to venipuncture procedures, specimen processing, and safety and compliance considerations. Additionally, the course prepares students to take the National Healthcareer Association (NHA), Certification Phlebotomy Technician (CPT) exam. Successful completion of this course and program, along with 30 unaided, successful venipunctures and 10 capillary collections on live individuals, will make students eligible to sit for the NHA CPT credential. This credential allows students to work as a nationally certified phlebotomist for 2 years, before certification renewal is required.

Course Learning Outcomes:

- CLO#1: Apply quality assurance and quality control to promote safety and patient confidentiality/HIPAA.
- CLO#2: Describe the human circulatory system using correct terminology.
- CLO#3: Perform specimen collection with correct volume, tube type, and additives. (ILO: Quantitative Literacy and Reasoning)
- CLO#4: Demonstrate effective verbal and nonverbal communication in the lab setting.

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours for term, not to exceed (72) hours per term

AH 107 - Electrocardiograms for MA

2 Credit(s)

Prerequisite(s):

Acceptance into the Medical Assistant Certificate program and successful completion of all prior program courses is required.

Course Description: This course focuses on how to perform and interpret an electrocardiogram (ECG) within a clinical setting. Students will learn how to prepare a patient, perform an ECG as well as identify and correct artifacts. In addition, this course includes an introduction and understanding of the human heart, and other cardiac procedures. Students will also learn basic electrophysiology and how to interpret various rhythms. This course certifies Medical Assistant students to sit for the NHA CET (Certified Electrocardiogram Technician) examination upon successful completion of the Medical Assistant Program.

Course Learning Outcomes:

- CLO#1: Describe key principles of cardiac anatomy, physiology, and electrophysiology.
- CLO#2: Identify key principles in electrocardiogram (ECG) interpretation.
- CLO#3: Compare and contrast ECG rhythms. (ILO: Critical Thinking)
- CLO#4: Accurately perform ECG's in a classroom setting.

Typical Required and Recommended Equipment and Materials: TBA

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of 40 and a standard RCC delivery of 44 lecture/lab hours for term, not to exceed 48 hours per term.

AH 108 - Intro to Pharmacology

3 Credit(s)

Course Description: Introduction of pharmacology, from safety and regulations, through medication preparation and dosages. This course will focus on patient conditions related to

medications, interactions, and effects of medications on the human body.

Course Learning Outcomes:

- CLO#1: Describe key principles of pharmacology, safety, and regulations.
- CLO#2: Identify drugs by name and classification and describe effects on the human body.
- CLO#3: Identify key principles in medication preparations and supplies, systems of measurement, and appropriate safe dosage calculations. (ILO: Quantitative Literacy and Reasoning)
- CLO#4: Describe routes of drug administration.
- CLO#5: Demonstrate industry standards of pharmacology related to special populations, including pediatrics, neonatal, and geriatrics.

Typical Required and Recommended Equipment and Materials: TBA

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of 30 and a standard RCC delivery of 33 lecture hours for term, not to exceed 36 hours per term

AH 110 - Medical Terminology - Clinical

3 Credit(s)

Prerequisite(s):

Admission to an Allied Health Occupations program and AH 100.

Course Description: Continues the study of medical terminology and medical records analysis. Focuses on the clinical aspects of terminology including pharmacology, medical specialties, medical records, diagnostic and treatment procedures, and laboratory testing.

Course Learning Outcomes:

- CLO#1: Define and spell medical terms.
- CLO#2: Build and analyze medical terms.
- CLO#3: Define medical terms through reading and writing.
- CLO#4: Differentiate types of medical terms and the relationships among terms.
- CLO#5: Analyze and interpret medical communications used to document health care. (ILO: Information Literacy)

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of thirty (30) and a standard RCC delivery of (33) lecture hours for one term, not to exceed (36) hours per term

AH 111 - Healthcare Communication

1 Credit(s)

Course Description:

Prepares students for practicum experiences and employment in the healthcare industry by understanding multicultural therapeutic communication and culturally competent communication and behavior. In addition, students will learn professional communication skills (oral and written), workplace ethics, and professional behavior.

Course Learning Outcomes:

CLO#1: Compare and contrast therapeutic and nontherapeutic communication.

CLO#2: Identify barriers to multicultural therapeutic communication.

CLO#3: Identify personal goals to improve culturally competent communication and behavioral skills. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (24) hours per term.

AH 123 - Healthcare Legal and Ethical Issues

2 Credit(s)

Course Description: Exposes students to a variety of legal and ethical dilemmas, helping students become more prudent and confident medical assistants or medical administrative assistants. Classroom content includes the legal system, the legal rights that define relationships between individuals, quality assurance, office protocols and patient records, and legal issues that affect employment.

Course Learning Outcomes:

CLO#1: Describe the differences between laws and ethics in healthcare.

CLO#2: Explain standard of care and its role in various scenarios.

CLO#3: Define workplace sexual harassment and strategies for prevention and response.
(ILO: Equity, Diversity, Inclusion and Global Consciousness)

CLO#4: Describe culturally competent healthcare and practices of medical staff. (ILO: Critical Thinking)

CLO#5: Explain ethical principles in healthcare and how they influence decision-making.

CLO#6: Analyze the Health Insurance Portability and Accountability Act (HIPAA) and its impact on medical office practices.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of 20 and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

AH 130 - Medical Insurance and Billing

4 Credit(s)

Prerequisite(s):

Acceptance into an Allied Health Occupations program and successful completion of all prior program courses is required.

Course Description: Explores the fundamentals of health insurance, reimbursement processes and methodologies, billing cycles, payment systems, fee schedules, charge master, and internal audit processes. Includes an introduction to how health information technology is used in medical offices. Students will learn how to apply this information to enter patient charges and payments.

Course Learning Outcomes:

- CLO#1: Identify and describe the components of the revenue cycle.
- CLO#2: Identify claims processing procedures. (ILO: Information Literacy)
- CLO#3: Compare and contrast types of insurance plans.
- CLO#4: Identify and correctly apply codes for billing purposes within different healthcare settings.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

AH 165 - Intro to Pharmacology for PRX

2 Credit(s)

Prerequisite(s):

Acceptance into the Pharmacy Technician Certificate program and successful completion of all prior program courses is required.

Course Description: Introduces the world of pharmacology as relevant to pharmacy technicians, including, medication preparations and dosages, patient conditions related to medications and the effects medications have on the patient's body. It also addresses the pharmacological issues of special populations such as pediatrics, neonatal, and geriatrics.

Course Learning Outcomes:

- CLO#1: Demonstrate accurate key principles in drug names and classifications, common sources of medication and their effects on the body.
- CLO#2: Identify key principles in medication preparations and supplies, systems of measurement, and appropriate safe dosage calculations. (ILO: Quantitative Literacy and Reasoning)
- CLO#3: Demonstrate industry standards of pharmacology related to special populations, including pediatrics, neonatal, and geriatrics.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

AH 170MA - MA Practicum and Seminar

7 Credit(s)

Prerequisite(s):

AH 102, AH 103, and current AHA CPR/BLS certification.

Course Description: Provides hands-on clinical experience. Students meet during the first one to two weeks in seminar, reviewing institutional expectations, infection control, and healthcare communication. Afterwards, students will be placed in an immersive cooperative work experience with a host site to apply their knowledge and skills as part of the patient care team. Duties will be assigned according to students' skill level and the work needs of the host site. Students will participate in three additional seminars in which students reflect on experiences. Students will be expected to expand their skill set during the sequence.

Course Learning Outcomes:

CLO#1: Identify institutional expectations, policies and procedures for students and clinical sites including behavioral and safety issues.

CLO#2: Demonstrate effective verbal, nonverbal, and written communication principles and skills required in the workplace and clinical setting.

CLO#3: Perform the basic functions of medical assistants in a primary, specialty, and/or urgent care setting.

CLO#4: Evaluate goals based on instructor and preceptor feedback. (ILO: Critical Thinking)

CLO#5: Develop professional skills to meet industry demands based on the Rogue Valley Employability Rubric standards

CLO#6: Adhere to facility and medical assistant program policies.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

CWE PORTION: A required state minimum of (150) and a standard of (165) CWE hours per term, not to exceed (180) CWE hours per term. CWE SEMINAR PORTION: A required state minimum of (20) and a standard of (22) CWE Seminar hours per term, not to exceed (24) CWE Seminar hours.

AH 170MB - Medical Assistant Bridge Practicum

3 Credit(s)

Prerequisite(s):

AH 103 and current AHA CPR/BLS certification.

Course Description: Provides hands-on clinical experience. Students work each week at a host site as part of the patient care team and experience first-hand the various operations within primary, specialty and/or urgent care settings. Duties will be assigned according to students' skill level and the work needs of the host site. Students will participate in five seminars in which students discuss expectations and reflect on experiences. Students will be expected to expand their skill set during the sequence.

Course Learning Outcomes:

- CLO#1: Perform the basic functions of a Medical Assistant in a primary, specialty, and/or urgent care setting.
- CLO#2: Develop and evaluate goals based on Instructor and preceptor feedback. (ILO: Critical Thinking)
- CLO#3: Develop professional skills to meet industry demands based on the Rogue Valley Employability Rubric standards.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (90) and a standard RCC delivery of (99) lab hours per term, not to exceed (99) hours per term.

AH 170PH - Phlebotomy Practicum**2 Credit(s)****Prerequisite(s):**

Acceptance into the Phlebotomy Career Pathway Certificate program.

Course Description: Provides hands-on clinical experience. Students work each week in a host site as part of the patient care team and experience first-hand the various operations within primary, specialty and/or urgent care settings. Duties will be assigned according to students' skill level and the work needs of the host site. Students will participate in three seminars during the term.

Course Learning Outcomes:

- CLO#1: Perform the basic functions of phlebotomy in a primary, specialty, lab, and/or urgent care setting.
- CLO#2: Develop and evaluate goals based on Instructor and preceptor feedback. (ILO: Critical Thinking)
- CLO#3: Develop professional skills to meet industry demands based on the Rogue Valley Employability Rubric.
- CLO#4: Adhere to facility and phlebotomy program policies.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lab hours per term, not to exceed (72) hours per term.

AH 170PT - Pharmacy Technician Practicum**3 Credit(s)**

Course Description: Provides hands-on clinical experience. Students work in a host site as part of the pharmacy team and experience first-hand the various operations within different pharmacy settings. Duties will be assigned according to students' skill level and the

work needs of the host site. Students will participate in three seminars during the term. Seminars are attended and moderated by an Instructor, who uses the feedback gained to evaluate current practicum experiences and improve future practicum experiences.

Course Learning Outcomes:

- CLO#1: Perform the basic functions of a pharmacy technician in a variety of pharmacy settings.
- CLO#2: Develop and evaluate goals based on Instructor and preceptor feedback. (ILO: Critical Thinking)
- CLO#3: Develop professional skills to meet industry demands based on the Rogue Valley Employability Rubric.
- CLO#4: Adhere to facility and pharmacy technician program policies.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (90) and a standard RCC delivery of (99) lab hours per term, not to exceed (108) hours per term.

AH 199 - Special Studies - Allied Health

Var. (1-3) Credit(s)

Prerequisite(s):

May vary depending on program and subject offerings.

Course Description: Selected topics of study in Allied health are offered on demand through seminars, lecture/lab and or web. This course is designed to:

- Provide the local medical community served by Rogue Community College with a variety of subject offerings designed to address educational needs for medical staff unique to the area.

- Provide flexibility in meeting competency or skill requirements in the changing medical environment.

Course is repeatable.

Course Learning Outcomes:

- CLO#1: Individual course outcomes and ILOs will be developed at the time the proposed class is designed. Typical assessments will include but are not limited to homework exercises, discussion, quizzes, examinations, course discussions, simulations and competency completion.

Typical Required and Recommended Equipment and Materials: Since each course covers a different subject, the elements of the course outline will be developed at the time the prospective class is designed.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours for term, not to exceed (24) hours per term.

AH 202 - Healthcare Infection Control

1 Credit(s)

Course Description: Prepares students to utilize proper infection control protocols in the healthcare industry. Provides a comprehensive overview of infectious diseases and their relationships to patient safety and occupational risk, standard and universal precautions, prevention of disease transmission, prevention of cross contamination, maintaining aseptic conditions, performing sterilization procedures, environmental asepsis, and occupational safety.

Course Learning Outcomes:

- CLO#1: Describe infectious diseases and relationships to patient safety and occupational risk. (ILO: Critical Thinking)
- CLO#2: Demonstrate how to prevent cross-contamination and disease transmission and describe how to maintain aseptic conditions.
- CLO#3: Describe standards and guidelines of occupational safety and infection control for healthcare personnel.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

AH 280 - CWE - Allied Health

Var. (1-12) Credit(s)

Prerequisite(s):

Permission of CWE Instructor or Department Chair.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their program. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, students should complete this course within the last two terms of their certificate or degree. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Complete forms accurately and meet deadlines to ensure effective communication. (ILO: Communication)
- CLO#2: Exhibit an acceptable work ethic as outlined in learning objectives. (ILO: Critical Thinking)
- CLO#3: Demonstrate strong work performance based on learning objectives.
- CLO#4: Follow instructions and meet deadlines consistently.
- CLO#5: Maintain a professional presence in the workplace.
- CLO#6: Build professional connections to support future employment.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required State minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

American Sign Language

ASL 101 - American Sign Language I

4 Credit(s)

Course Description: Introduces the development of expressive skills, receptive skills, and cultural awareness, with the primary focus on the student's active use of ASL. Course includes visual readiness skills, ASL vocabulary, deaf culture, and ASL grammar. The 100-level sequence focuses on everyday communication in a conversational environment where grammar is introduced in context with an emphasis on developing question and answering skills.

Course Learning Outcomes:

- CLO#1: Employ basic ASL vocabulary and grammar. (ILO: Communication)
- CLO#2: Compare cultural similarities and differences between deaf and hearing cultures.
- CLO#3: Communicate with others using ASL.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ASL 102 - American Sign Language II

4 Credit(s)

Prerequisite(s):

ASL 101

Course Description: Continues the development of expressive skills, receptive skills, and cultural awareness, building on the work of ASL 101. The primary focus is on the student's active use of ASL. Course includes visual readiness skills, ASL vocabulary, deaf culture, and ASL grammar. The 100-level sequence focuses on everyday communication in a conversational environment where grammar is introduced in context with an emphasis on developing question and answering skills.

Course Learning Outcomes:

- CLO#1: Employ basic ASL vocabulary and grammar. (ILO: Communication)
- CLO#2: Compare cultural similarities and differences between deaf and hearing cultures.
- CLO#3: Communicate with others using ASL.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC deliver of (44) lecture hours per term, not to exceed (48) hours per term.

ASL 103 - American Sign Language III

4 Credit(s)

Prerequisite(s):

ASL 102

Course Description: Completes the year of ASL, building on ASL 101 and ASL 102 in the development of expressive skills, receptive skills, and cultural awareness. The primary focus is on the student's active use of ASL. Course includes visual readiness skills, ASL vocabulary, deaf culture, and ASL grammar. The 100-level sequence focuses on everyday communication in a conversational environment where grammar is introduced in context with an emphasis on developing question and answering skills.

Course Learning Outcomes:

CLO#1: Employ basic ASL vocabulary and grammar. (ILO: Communication)

CLO#2: Compare cultural similarities and differences between deaf and hearing cultures.

CLO#3: Communicate with others using ASL.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

Anthropology

ANTH 110 - Intro to Cultural Anthropology

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Examines human social organizations, the meaning of culture and its diverse forms and structures, cultural growth and expansion, and the nature of cultural change. Explores various key anthropological topics that may include language, ritual, kinship, the arts, globalization, religion and political and economic structures. Examples are drawn from small scale societies and from industrialized societies. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

- CLO#1: Demonstrate basic knowledge of fundamental anthropological concepts and theories.
- CLO#2: Identify and describe cross-cultural patterns in economic, political, religious and kinship systems. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#3: Analyze how social institutions and various elements of culture are integrated in any given society.
- CLO#4: Analyze the social processes by which personal identity is negotiated and constructed.
- CLO#5: Analyze the role of cultural ideologies and institutions in shaping human behavior and choices, including the impact of institutional inequities.
- CLO#6: Describe basic causes and processes of social and cultural change.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ANTH 150 - Introduction to Archaeology

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Provides an introduction to the science of archaeology: its history, methods, and theory. Citing examples from prehistoric world, it examines the nature of archaeological data, the application of techniques, and the extrapolation of culture from the archaeological record. In doing so, it illustrates the relationship of culture to environment, a variety of ideas regarding past culture change, and the role of modern archaeology in preserving the past for the future.

Course Learning Outcomes:

- CLO#1: Explain fundamental archaeological concepts and theories.
- CLO#2: Apply the archaeological perspective by describing, analyzing, and interpreting above-ground data. (ILO: Information Literacy)
- CLO#3: Describe how archaeology contributes to the understanding of prehistory, history, and current cultural practices.
- CLO#4: Analyze relationships between geography, culture, subsistence strategies, technology, craft specialization and social stratification.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ANTH 199 - Special Studies - Anthropology

Var. (1-4) Credit(s)**Prerequisite(s):**

May vary depending on subject offerings.

Course Description: Selected topics of study in anthropology are offered on demand through workshops, seminars, lecture, lab, and/or independent study format. Course is repeatable.

Course Learning Outcomes:

CLO#1: Individual course outcomes and ILOs will be developed at the time the proposed class is designed. Typical assessments will include but are not limited to homework exercises, discussion, quizzes, examinations, course discussions, and research papers.

Typical Required and Recommended Equipment and Materials: Varies with the curriculum.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

Apprenticeship

APR 104A - Machinist Blueprint Reading**2 Credit(s)****Prerequisite(s):**

Registered Apprentice with Rogue Industrial Advanced Manufacturing JATC.

Course Description: Introduces mechanical blueprints using multi-view projection, sectional views, auxiliary views, title blocks, and drawing formats which are the basis for all graphical communication in the manufacturing industry today. Knowledge of the techniques used on blueprints is necessary in the industry whenever descriptions of size, shape, and arrangement are used to produce, service, or sell a product.

Course Learning Outcomes:

- CLO#1: Identify and demonstrate a working knowledge of word definitions and their abbreviations for standard industry blueprints.
- CLO#2: Demonstrate ability to derive missing linear and/or angular dimensional values on an industry standard blueprint.
- CLO#3: Demonstrate competency of multi-view drawing techniques used on blueprints in industry where descriptions of size, shape, and arrangement are used to produce, service, or sell a product. (ILO: Critical Thinking)
- CLO#4: Demonstrate a working knowledge of sectional and auxiliary views, which are the two common methods used to show hidden features, and/or surfaces that are at angles other than 90 degrees.
- CLO#5: Demonstrate a working knowledge of various standard-drawing title block notes and drawing formats used in industry.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-36X is recommended), scratch paper for calculations, pen and pencils.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 105CO - Apprenticeship CPL - Construction

Var. (11-22) Credit(s)

Prerequisite(s):

Completion of an Apprenticeship program of study Journey card and/or state or federal sanctioned license.

Course Description: In recognition of knowledge and skills gained through structured on-the-job training, apprentices will be awarded credit based on the assessment of their knowledge of mechanical, electrical, fabrication, installation, and layout in blueprints as evidenced by the award of Journey Status awarded by the Bureau of Labor and Industries. All training follows the state and Joint Apprenticeship and Training Committee (JATC) standards, supervised by a Journey-level trade professional and reported to the Coordinator at the end of each month. Credits will be awarded only after the apprentice has completed all coursework required for the designated Associate of Applied Science degree and the local JATC has completed the apprentice from the program. A completion card and/or state required license specific to the trade must be presented at the time credit is awarded.

Course Learning Outcomes:

CLO#1: Demonstrate the skills necessary meet the requirements for competency as defined in the apprenticeship standard for this occupation. This includes successful completion of the apprenticeship program, that results in the award of a Journey Card, License, or other Industry Recognized Credential. (ILO: Information Literacy)

Typical Required and Recommended Equipment and Materials: Varies by work site.

Length of Course:

A total of 2000 - 8000 hours of work.

APR 105EL - Apprenticeship CPL - Electrician

Var. (11-22) Credit(s)

Prerequisite(s):

Completion of an Apprenticeship program of study Journey card and/or state or federal sanctioned license.

Course Description: In recognition of knowledge and skills gained through structured on-the-job training, apprentices will be awarded credit based on assessment of their knowledge of installation of circuits, motors and generators, controls, troubleshooting, power distribution, and

lighting as evidenced by the award of Journey Status awarded by the Bureau of Labor and Industries and licensure from Building Codes. All training follows the state and Joint Apprenticeship and Training Committee (JATC) standards, supervised by a Journey-level trade professional and reported to the Coordinator at the end of each month. Credits will be awarded only after the apprentice has completed all coursework required for the designated Associate of Applied Science degree and the local JATC has completed the apprentice from the program. A completion card and/or state required license specific to the trade must be presented at the time credit is awarded.

Course Learning Outcomes:

CLO#1: Demonstrate the skills necessary meet the requirements for competency as defined in the apprenticeship standard for this occupation. This includes successful completion of the apprenticeship program, that results in the award of a Journey Card, License, or other Industry Recognized Credential. (ILO: Information Literacy)

Typical Required and Recommended Equipment and Materials: Varies by work site.

Length of Course:

A total of 2000 - 8000 hours of work.

APR 105IM - Apprenticeship CPL - Industrial

Var. (11-22) Credit(s)

Prerequisite(s):

Completion of an Apprenticeship program of study Journey card and/or state or federal sanctioned license.

Course Description: In recognition of knowledge and skills gained through structured on-the-job training, apprentices will be awarded credit based on the assessment of their knowledge of welding, fabrication, along with general maintenance and repair of industrial tools and equipment as evidenced by the award of Journey Status awarded by the Bureau of Labor and Industries. All training follows the state and Joint Apprenticeship and Training Committee (JATC) standards, supervised by a Journey-level trade professional and reported to the Coordinator at the end of each month. Credits will be awarded only after the apprentice has completed all coursework required for the designated Associate of Applied Science degree and the local JATC has completed the apprentice from the program. A completion card and/or state required license specific to the trade must be presented at the time credit is awarded.

Course Learning Outcomes:

CLO#1: Demonstrate the skills necessary meet the requirements for competency as defined in the apprenticeship standard for this occupation. This includes successful completion of the apprenticeship program, that results in the award of a Journey Card, License, or other Industry Recognized Credential. (ILO: Information Literacy)

Length of Course:

A total of 2000 - 8000 hours of work.

APR 106A - Machinist CAD I Mech - Autodesk

2 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Industrial Advanced Manufacturing JATC.

Course Description: Introduces students to the basic concepts of computer aided design (CAD) and drafting. These include but are not limited to set-up workspace, sketches, features, and drawings. Working in both two- and three-dimensions as well as in solids, students will learn the operating system, command codes, file menu, and symbol library of an industry standard, computer aided design and drafting system.

Course Learning Outcomes:

CLO#1: Demonstrate simple sketches and extrusions.

CLO#2: Display knowledge on 3D part model assemblies. (ILO: Critical Thinking)

CLO#3: Determine which set of software tools will produce the desired results and understands the intent and the proper procedures for setting up the 3D CAD model and drawing.

Typical Required and Recommended Equipment and Materials: Flash drive, 16 Gig recommended.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 106B - Machinist CAD I Mech - SolidWorks

2 Credit(s)

Prerequisite(s):

Registered apprentice with Rogue Industrial Advanced Manufacturing JATC.

Course Description: Course studies will be completed using SolidWorks CAD software. Studies include set-up workspace, sketches, features, and drawings. Working in both two- and three-dimensions as well as in solids, students will learn the operating system, command codes, file menu, and symbol library of an industry standard, computer aided design and drafting system.

Course Learning Outcomes:

CLO#1: Contributes constructively to group with ideas, suggestions, and effort to help others learn.

CLO#2: Determines which set of software tools will produce the desired results and understands the intent and the proper procedures for setting up the 3D CAD model and drawing.

CLO#3: Prevents, identifies, or solves problems in Solidworks 3D models, drawings and computers. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: USB Flash drive, 8 Gig recommended. Students enrolled in this course will be given instructions to download the basic student version of SolidWorks software for use at home. Students wishing to purchase advanced student version of software need to inquire

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 107A - HVAC Basics**4 Credit(s)****Prerequisite(s):**

Registered Apprentice with Rogue Valley HVAC/R JATC.

Course Description: The course provides an introduction of the fundamentals of refrigeration, common refrigeration tools and materials, as well as basic refrigeration systems, compression systems and compressors. The course also includes Basic First Aid.

Course Learning Outcomes:

- CLO#1: Apply theory of heating and cooling as it relates to HVAC.
- CLO#2: Demonstrate the proper care, use and storage of hand and power tools used in HVAC applications. (ILO: Critical Thinking)
- CLO#3: Recognize and explain the features of basic refrigeration systems.
- CLO#4: Recognize and explain the operations of compressors and compression systems.
- CLO#5: Acquire a Basic First Aid Card.

Typical Required and Recommended Equipment and Materials: Calculator, notebook and ruled paper.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC deliver of (44) lecture hours per term, not to exceed (48) hours per term.

APR 107B - HVAC Air Conditioning and Refrig**4 Credit(s)****Prerequisite(s):**

Registered Apprentice with Rogue Valley HVAC/R JATC.

Course Description: Covers the introduction and fundamentals of refrigeration that includes: Refrigerant controls; Domestic refrigerators and freezers; Service and installation of small hermetic systems; Commercial systems; Hazard communication and safe practices.

Course Learning Outcomes:

- CLO#1: Demonstrate safe working practices in hazard communication and installation.
- CLO#2: Apply OSHA practices in relationship to the specific trades.
- CLO#3: Explain the characteristics of refrigerant controls that include components and categories.

CLO#4: Identify and explain the distinguishing characteristics of operation and function within domestic and commercial refrigeration systems. (ILO: Critical Thinking)

CLO#5: Install and service small hermetic systems.

Typical Required and Recommended Equipment and Materials: Calculator, ruled paper and notebook.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 107C - HVAC Safety and Environ Controls

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Valley HVAC/R JATC.

Course Description: The course includes refrigerant composition, recovery requirements and Environmental Protection Agency (EPA) rules in HVAC. Students will gain the knowledge to successfully test for the required EPA Card. Topics include: Chlorofluorocarbon refrigerants (CFC) composition; Refrigerant recovery, recycling and reclaiming; Environmental Protection Agency (EPA) Rules; EPA regulations/air conditioning and refrigeration; Preparation for testing for the EPA Certification Card.

Course Learning Outcomes:

CLO#1: Explain the chemical characteristics of chlorofluorocarbon refrigerants that results in heat/cooling exchange in HVAC applications.

CLO#2: Apply safe, EPA approved recovery, recycling and reclaiming of refrigerants.

CLO#3: Apply EPA rules as it relates to HVAC applications.

CLO#4: Demonstrate knowledge of EPA regulations and ability to locate rules for reference.
(ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Calculator, notebook, ruled paper.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 107D - HVAC Electrical Basics

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Valley HVAC/R JATC.

Course Description: The course includes basic electrical theory including OHM's Law, circuit schematics symbols, circuit characteristics, as it applies to DC and AC circuits in the HVAC industry. Topics include: Electrical Safety; Electrical Theory; Electrical schematics and component symbols; Electrical testing equipment/ meters; Electrical-magnetic fundamentals.

Course Learning Outcomes:

- CLO#1: Demonstrate safe working practices in accordance with state and federal regulations.
- CLO#2: Apply OSHA practices in relationship to the specific trades.
- CLO#3: Demonstrate the theory of OHM's Law as it applies to circuits in the HVAC industry.
(ILO: Quantitative Literacy and Reasoning)
- CLO#4: Create sample electrical schematics that include HVAC components and symbols of electrical circuits.
- CLO#5: Select and use electrical testing instruments and meters to gather information/data in required in assessing design requirements, installation and/or troubleshooting HVAC applications.
- CLO#6: Explain electrical-magnetic fundamentals specific to devices utilized in HVAC systems.

Typical Required and Recommended Equipment and Materials: Calculator, ruled paper and notebook

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 107E - HVAC Electrical Circuit I

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Valley HVAC/R JATC.

Course Description: The course includes components, symbols and circuitry of air conditioning wiring diagrams, alternating current power distribution, and voltage systems as it pertains to installation of heating, cooling and refrigeration systems. Components and operation of the basic electrical motor will be included.

Course Learning Outcomes:

- CLO#1: Interpret and create schematic diagrams of HVAC equipment and systems using recognized symbols.
- CLO#2: Explain characteristics of alternating current production and application specifically to devices utilized in HVAC systems.
- CLO#3: Apply electrical and system requirements in selection and installation of heating, cooling and refrigeration systems. (ILO: Critical Thinking)
- CLO#4: Explain basic electric motor theory in HVAC applications. Systems.
- CLO#5: Identify differences and similarities between motor types and considerations in application. Systems.

Typical Required and Recommended Equipment and Materials: Calculator, ruled paper and notebook.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (40) lecture hours per term, not to exceed (48) hours per term.

APR 107F - HVAC Electrical Circuit II

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Valley HVAC/R JATC.

Course Description: This course covers common control components found in HVAC systems. Specific devices include contactors, relays and overloads, thermostats, pressure switches and other electric control devices, and heating control devices.

Course Learning Outcomes:

- CLO#1: Explain the purpose and features of contactors, relays and overloads in their sequence of operation in HVAC applications. (ILO: Communication)
- CLO#2: Describe the operation of a thermostat in heating and cooling applications.
- CLO#3: Explain the purpose of pressure switches and their application in HVAC systems. Include safety considerations.
- CLO#4: Troubleshoot electrical thermostats and control devices using testing equipment, schematics, and factory information and equipment limitations.

Typical Required and Recommended Equipment and Materials: Calculator, ruled paper and notebook.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 109A - Construction Industry Success

2 Credit(s)

Prerequisite(s):

Acceptance into a BOLI registered Apprenticeship program.

Course Description: Introduces employment opportunities in the construction industry as well as the roles and responsibility of the employee. Focuses on teamwork, leadership, and career success.

Course Learning Outcomes:

- CLO#1: Explain the employee's role and responsibilities in the construction industry and how individual success is achieved.
- CLO#2: Create individualized budget and time management plans addressing the time commitment and costs for training. (ILO: Critical Thinking)
- CLO#3: Exhibit the ability to achieve goals by working in teams.
- CLO#4: Describe the importance of safety, the causes of workplace incidents, and the process of hazard recognition and control.

Typical Required and Recommended Equipment and Materials: Tape measure, PPE as described in syllabus, scientific calculator, notebook/binder, architects scale, mechanical pencils.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required minimum of (20) and a standard RCC delivery of (22) lecture hours, not to exceed (24) hours per term.

APR 111A - Introduction to Plumbing Skills

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Area V Plumbers JATC.

Course Description: Introduces plumbing materials and tools encountered in the plumbing trade, and their safe usage. On successful completion students will be able to identify common tools and materials and explain their use. Apprentices will know how to use MSDS as a tool read and create simple blueprints, and locate ORS and OARs that impact plumbing applications and licensed plumbers.

Course Learning Outcomes:

- CLO#1: Identify plumbing materials and applications in completing plumbing tasks.
- CLO#2: Explain the purpose and safe usage of tools required in the plumbing trade. (ILO: Communication)
- CLO#3: Use critical safety information to create a plan of action in an emergency situation.
- CLO#4: Render accurate basic drawings showing layout and plumbing systems.
- CLO#5: Explain the purpose of ORS and OARs in governance of licensure and plumbing regulations.
- CLO#6: Identify relevant plumbing definitions found in the UPC.
- CLO#7: Recognize and classify code-defined General Regulations in the OPSC.

Typical Required and Recommended Equipment and Materials: Three-ring binder for handouts, 30- 60- 90-degree triangle, blank paper, pencils, calculator.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 111B - Plumbing Principles I

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Area V Plumbers JATC.

Course Description: Provides the plumbing apprentice with knowledge to combine appropriate tools with materials required for the job. Students will use math and science principles in completion of plumbing tasks. Intermediate blueprint reading skills will be included in the course. An overview of fixture types, operation of water heaters and other hot water systems along with characteristics of water in pressure piping will be included.

Course Learning Outcomes:

- CLO#1: Select appropriate tools and demonstrate techniques most effectively used on various plumbing materials in common plumbing installations.
- CLO#2: Demonstrate competence in using basic math concepts in on-the-job plumbing situations. (ILO: Quantitative Literacy and Reasoning)
- CLO#3: Apply the principles of science to applications in plumbing.
- CLO#4: Demonstrate ability to read and create detailed blueprints containing plumbing symbols and specifications related to installation of plumbing.
- CLO#5: Select plumbing fixtures, water heaters, and hot water systems based on desired results and related Code.

Typical Required and Recommended Equipment and Materials: Three-ring binder for handouts, 30- 60- 90-degree triangle, blank paper, pencils, calculator.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 111C - Plumbing Principles II

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Area V Plumbers JATC.

Course Description: Upon satisfactory completion the student will be able to safely and efficiently use hand and power tools in the plumbing trade, render isometric drawings from blueprints, define the characteristics of water, select proper water pipe size, and explain the principle of backflow prevention and hot water heaters.

Course Learning Outcomes:

- CLO#1: Operate hand and power tools using safe, industry approved techniques.
- CLO#2: Accurately render isometric drawings from blueprints.
- CLO#3: Uses the principles of applied isometrics in plumbing. (ILO: Critical Thinking)
- CLO#4: Explain the characteristics of water.
- CLO#5: Select proper water pipe sizing based on specification.
- CLO#6: Explain the characteristics and importance of backflow prevention.

CLO#7: Explain how hot water heaters function.

Typical Required and Recommended Equipment and Materials: Three-ring binder for handouts, 30- 60- 90-degree triangle, blank paper, pencils, calculator.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 111D - Plumbing Commercial Drawing Math

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Area V Plumbers JATC.

Course Description: Reviews methods for finding angles using the Pythagorean Theorem. Students will interpret and use civil, architectural, structural, mechanical plumbing and electrical drawings when installing plumbing systems. Techniques to create isometric drawings, material takeoffs and approved submittal data will be included. Methods are introduced for attaching and running DWV and water supply piping in relation to structural elements and code requirements.

Course Learning Outcomes:

CLO#1: Calculate 22 ½-, 45-, 60-degree offsets, parallel offsets and determine square of a corner.

CLO#2: Draw simple and rolling offsets, as well as offsets on parallel runs of pipe.

CLO#3: Interpret information from site plans. (ILO: Critical Thinking)

CLO#4: Prepare a materials list for a drainage waste and vent system using approved submittal data.

CLO#5: Explain applications for installation of hangers, supports, and fire stopping for plumbing systems.

Typical Required and Recommended Equipment and Materials: Scientific calculator, writing tools, 30- 60- 90-degree triangle, ruler, notebook and required text

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 111E - Water Piping and Fixture Install

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Area V Plumbers JATC.

Course Description: Includes techniques for installation and testing of water supply piping, installation of basic plumbing fixtures and an introduction to the principles of electricity common to plumbing-related electrical applications. Code requirements will be included for each section.

Course Learning Outcomes:

- CLO#1: Prepare take offs from plans, locate fixture route pipe, locate and size water meters for installation of a water system.
- CLO#2: Explain requirements and techniques necessary to modify structural members in plumbing installation. (ILO: Critical Thinking)
- CLO#3: Explain sizing and installation of a water service line, including back flow prevention, and proper testing of a water supply system.
- CLO#4: Describe procedures required in safely installing and repairing bathtubs, shower stalls, valves, faucets, water closets, sinks, lavatories and urinals.
- CLO#5: Identify circuit, voltage and ohms when using electrical testing equipment on electrical components found in plumbing.

Typical Required and Recommended Equipment and Materials: Calculator, ruler and notebook.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 111F - DWV Systems - Water Heaters Install

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Area V Plumbers JATC.

Course Description: Gives the apprentice the knowledge to install a complete drain, waste and vent (DWV) system, techniques for installing common drains according to code and review of types of valves and their applications. Identification, troubleshooting and repair of water heaters, fixtures and valves will also be included. The course is designed to provide the knowledge required to pass the Oregon Plumber Licensing Examination.

Course Learning Outcomes:

- CLO#1: Layout a building site including fixtures through building sewers including building the stack location.
- CLO#2: Demonstrate installation of DWV systems with appropriate hangers and correct grade or slope without weakening structure.
- CLO#3: Explain the procedure for testing DWV system.
- CLO#4: Use proper techniques and equipment for locating, installing and connecting roof, floor and area drains according to code.
- CLO#5: Select valves, install and service basic types of valves.
- CLO#6: Demonstrate proper water heater installation, safety considerations, and servicing to state and federal code. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Calculator, ruler, notebook,

builder's level.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 112A - Machinist Materials and Metallurgy

2 Credit(s)

Prerequisite(s):

Registered apprentice with Rogue Industrial Advanced Manufacturing JATC.

Course Description: Studies basic metallurgy as it relates to manufacturing processes. The course introduces the identification of ferrous metals and non-ferrous metals, as well as other materials used in the manufacturing industry. Study includes mechanical and physical properties, powder metallurgy, heat treatment, alloying, crystalline structures, effects of machining, casting processes, and testing processes.

Course Learning Outcomes:

CLO#1: Identify basic components and manufacturing processes of carbon (ferrous) materials.

CLO#2: Identify basic components and manufacturing processes of non-ferrous materials.

CLO#3: Differentiate between basic metallurgical compositions of steels, alloys and non-ferrous metals. (ILO: Critical Thinking)

CLO#4: Identify material testing procedures and their application in industry.

Typical Required and Recommended Equipment and Materials: Pen/pencil, notebook, USB flash drive

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture-lab hours per term, not to exceed (48) hours per term.

APR 113A - Machinist - MFG Processes I

2 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Industrial Advanced Manufacturing JATC.

Course Description: First of a three-term series designed to develop both an understanding of manufacturing concerns and limitations of industry as well as developing the hands-on skills needed for machining jobs in manufacturing. This course covers basic manufacturing skills and machine tooling practices. Emphasizes safety, bench work, engine lathes, tool grinding, layout and production work through a series of projects.

Course Learning Outcomes:

CLO#1: Demonstrate an introductory working knowledge of manual machine usage and safe operation. (ILO: Critical Thinking)

CLO#2: Demonstrate use of trigonometry as pertains to project layout.

CLO#3: Demonstrate proper safety practices in the lab and workplace.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 113B - Machinist - MFG Processes II**2 Credit(s)****Prerequisite(s):**

Registered Apprentice with Rogue Industrial Advanced Manufacturing JATC.

Course Description: Second of a three-term series designed to continue the development of both an understanding of manufacturing concerns and limitations of industry as well as developing the hands-on skills needed for machining jobs in manufacturing. This course continues and expands basic manufacturing skills and machine tooling practices. Continues emphasis on safety, bench work, vertical mills, precision grinding, tool room operations, and production work through a series of projects.

Course Learning Outcomes:

CLO#1: Demonstrate improved mathematics, as derived points must be calculated for project completion.

CLO#2: Demonstrate spatial thinking skills focusing on three-dimensional projects.
(ILO Critical Thinking)

CLO#3: Demonstrate proper safety practices in the lab and workplace.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 113C - Machinist - MFG Processes III**2 Credit(s)****Prerequisite(s):**

Registered Apprentice with Rogue Industrial Advanced Manufacturing JATC.

Course Description: As the third of a three-term series designed to continue the development of both an understanding of manufacturing concerns and limitations of industry as well as developing the hands-on skills needed for machining jobs in manufacturing, this course continues

and expands basic manufacturing skills and machine tooling practices. This class re-emphasizes safety, bench work, lathe work, vertical mill operations, precision grinding, tool room operations, and production work through completion of a project.

Course Learning Outcomes:

- CLO#1: Demonstrate an advanced working knowledge of manual machine usage and safe operation.
- CLO#2: Demonstrate improved mathematics, as derived points must be calculated for project completion.
- CLO#3: Demonstrate spatial thinking skills focusing on three-dimensional projects
Demonstrate expanded critical thinking skills focusing on three-dimensional thinking.
(ILO: Critical Thinking)
- CLO#4: Demonstrate proper safety practices in the lab and workplace.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 116A - Millwright Basic Electricity

4 Credit(s)

Prerequisite(s):

Registered Apprentice with the Jackson County Millwrights JATC.

Course Description: A one-term course intended to supplement on-the-job training with technical training required for trade comprehension, applications, and practices. The apprentices will have a basic understanding of electrical theory, safety procedures when working with electrical equipment and installation, features of an electrical schematic, electricity measurements and industrial applications of AC and DC motors.

Course Learning Outcomes:

- CLO#1: Describe basic electrical safety considerations on the work site.
- CLO#2: Explain electron theory and flow of magnetic fields and forces and their use in electric generation, transformers and motor operation.
- CLO#3: Identify and explain basic electrical symbols found in schematics.
- CLO#4: Describe and troubleshoot basic motor control circuits.
- CLO#5: Conduct basic electrical measurements using standard measuring equipment.
- CLO#6: Describe electric motor principals and industrial applications of AC and DC motors as well as the advantages of variable frequency drives for AC motors. (ILO: Quantitative Literacy and Reasoning)

Typical Required and Recommended Equipment and Materials: Calculator, ruler paper and notebook.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 116C - Millwright Power Transmission

2 Credit(s)

Prerequisite(s):

Registered Apprentice with the Jackson County Millwrights JATC.

Course Description: Provides an overview of carpentry skills needed by the journeyman millwright. Topics include shop safety, hand, stationary and pneumatic tool operation, and construction methods.

Course Learning Outcomes:

- CLO#1: Demonstrate general and specific power transmission applications.
- CLO#2: Describe and demonstrate basic system principals and characteristics. (ILO: Critical Thinking)
- CLO#3: Demonstrate power transmission troubleshooting and design.
- CLO#4: Describe the functioning of gearboxes, roller chain, flat belt, V-belt and continuous belt drives and related components
- CLO#5: Explain the design and function of power transmission as it applies to the duties of a millwright.

Typical Required and Recommended Equipment and Materials: Calculator, ruler paper and notebook.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 116D - Millwright Boilers

4 Credit(s)

Prerequisite(s):

Registered Apprentice with the Jackson County Millwrights JATC.

Course Description: The course provides the apprentice with technical training required for trade-specific comprehension, application, and practice in the operation and maintenance of boilers. The course supplements the skills and experience in required on-the-job training.

Course Learning Outcomes:

- CLO#1: Identify and describe design of basic boiler types, function and common maintenance.
- CLO#2: Describe general safety practices associated with boilers and steam systems.
- CLO#3: Explain thermodynamic principles of heat transfer and steam generation in manufacturing and electrical generation.

CLO#4: Describe the features and purpose of boiler auxiliaries, fittings, valves, piping and safety devices.

CLO#5: Explain proper water treatment for boiler and feed systems in typical boiler operation.

CLO#6: Describe boiler flu gas and wastewater discharge process; include monitoring procedures and possible effects on the environment. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Calculator, ruled paper and notebook

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 116E - Millwright Welding I

2 Credit(s)

Prerequisite(s):

Registered Apprentice with the Jackson County Millwrights JATC.

Course Description: This course is intended to supplement on-the-job welding experience by enhancing the apprentice's knowledge, understanding, and views of commonly used cutting and welding processes encountered as a journeyman Millwright. Special emphasis will be placed on safety, maintenance of equipment, and fabrication on the worksite.

Course Learning Outcomes:

CLO#1: List and explain general safety practices and equipment associated with cutting and welding. (ILO: Communication)

CLO#2: Demonstrate proper cutting techniques using oxygen acetylene.

CLO#3: Demonstrate proper arc welding techniques on ¼" plate all positions E6011 AC DC+.

CLO#4: Demonstrate proper arc welding techniques on ¾" plate all positions E601 or E6010 root passes AC or DC+ E7018 covers DC+.

CLO#5: Demonstrate proper plasma torch cutting techniques.

CLO#6: Demonstrate the proper use, maintenance and safety practices of a stationary band saw.

Typical Required and Recommended Equipment and Materials: Ruled paper and notebook.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 116F - Millwright Welding II

2 Credit(s)

Prerequisite(s):

Registered Apprentice with the Southern Oregon Millwright JATC, and APR 116E.

Course Description: Welding II is a comprehensive one term training for advanced apprentices who have completed Welding I and have on-the-job welding experience. It will enhance the apprentice's knowledge and ability to complete cutting and welding processes requiring more knowledge and skill. This class will meet the safety, maintenance and fabrication needs of a journeyman millwright.

Course Learning Outcomes:

- CLO#1: Demonstrate general safety practices and equipment associated with cutting and welding. (ILO: Communication)
- CLO#2: Perform proper cutting using oxygen-acetylene on mild steel.
- CLO#3: Demonstrate advanced arc welding techniques on ¼" plate all positions E6011 AC and 6010 DC+.
- CLO#4: Demonstrate advanced arc welding techniques on ¼" and ⅜" plate all positions E6011 or E6010 root passes AC or DC+ E7018 covers DC+.
- CLO#5: Demonstrate TIG welding techniques that meet standards of the industry.
- CLO#6: Demonstrate Pipe welding 6G +.

Typical Required and Recommended Equipment and Materials: Ruled paper and notebook.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 118A - Introduction to Sheet Metal

3 Credit(s)

Prerequisite(s):

Registered Apprentice with the South-Central Oregon Sheet Metal JATC.

Course Description: Apprentices will properly apply job site safety practices and show competence in the use of basic hand tools and power equipment to accurately lay out sheet metal seams, edges, locks, and connectors using simple blueprint design.

Course Learning Outcomes:

- CLO#1: Demonstrate adherence to OSHA standards both in the sheet metal fabrication shop and in the field.
- CLO#2: Operate hand tools and power equipment required in the fabrication and assembly of sheet metal.
- CLO#3: Accurately lay out basic sheet metal seams, edges, locks, and connectors using simple blueprint designs. (ILO: Information Literacy)
- CLO#4: Create accurate 2-dimensional layouts using mathematical principles and blueprint interpretation.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (63) lecture/lab hours per term, not to exceed (72) hours per term.

APR 118B - Intro to Sheet Metal Duct Lay Out

3 Credit(s)

Prerequisite(s):

Registered Apprentice with the South-Central Oregon Sheet Metal JATC.

Course Description: The course topics include measurement of materials, lay out and fabrication of basic duct work using the parallel line method and mathematical formulas.

Course Learning Outcomes:

- CLO#1: Lay out and fabricate basic duct fittings and sheet metal using the parallel line method. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Select and use appropriate drafting instruments to create layout blueprints for duct fittings.
- CLO#3: Apply measurement techniques and the parallel line method to accurately lay out and fabricate basic ductwork using mathematical formulas.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (63) lecture/lab hours per term, not to exceed (72) hours per term.

APR 118C - Sheet Metal Parallel Line Design

3 Credit(s)

Prerequisite(s):

Registered Apprentice with the South-Central Oregon Sheet Metal JATC.

Course Description: This is an advanced course and functions as the 'capstone' course for the end of the first year in the Sheet Metal Apprenticeship program. Apprentices will build fittings using tools and techniques learned in the first two courses.

Course Learning Outcomes:

- CLO#1: Construct two fittings using the parallel line layout method based on given dimensions and specifications. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Analyze fitting design requirements and select appropriate tools and fabrication techniques to construct two advanced sheet metal fittings.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and standard RCC delivery of (63) lecture/lab hours per term, not to exceed (72) hours per term.

APR 118D - Sheet Metal - Advanced Fittings

3 Credit(s)

Prerequisite(s):

Registered Apprentice with the South Central Oregon Sheet Metal JATC.

Course Description: This course teaches apprentices how to draft, lay out, and fabricate dimensionally accurate advanced fittings using radical line, parallel line, and the triangulation method with drafting tools.

Course Learning Outcomes:

CLO#1: Draft round fittings using radical line and parallel line development (ILO: Critical Thinking)

CLO#2: Lay out advanced sheet metal fittings using the triangulation method with drafting tools.

CLO#3: Fabricate two fittings that are dimensionally accurate and advanced.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (63) lecture/lab hours per term, not to exceed (72) hours per term.

APR 118E - Sheet Metal - Plans and Details

3 Credit(s)

Prerequisite(s):

Registered Apprentice with the South Central Oregon Sheet Metal JATC.

Course Description: Apprentices will learn how to read and interpret complete plan sets, generate comprehensive duct lists based on blueprints, and compile complete flashing lists from blueprints.

Course Learning Outcomes:

CLO#1: Accurately interpret a complete plan set.

CLO#2: Accurately perform a complete list of ducts per blueprints.

CLO#3: Accurately perform a complete list of flashings per blueprints. (ILO: Critical Thinking)

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (63) lecture/lab hours per term, not to exceed (72) hours per term.

APR 118F - Architectural Sheet Metal

3 Credit(s)

Prerequisite(s):

Registered Apprentice with the South Central Oregon Sheet Metal JATC.

Course Description: This capstone course, designed for the end of Year Two in the Sheet Metal Apprenticeship program, provides apprentices with the opportunity to assemble a flashing mock-up tailored to specific design characteristics and application requirements, while demonstrating proper safety practices.

Course Learning Outcomes:

- CLO#1: Assemble a flashing mock-up that meets specified application requirements and individual project characteristics. (ILO: Communication)
- CLO#2: Demonstrate safe practices in the workshop, including inspecting tools, lifting materials safely, using personal protective equipment (PPE), stacking metal properly, and maintaining a clean and organized workspace.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (63) lecture/lab hours per term, not to exceed (72) hours per term.

APR 120A - Introduction to Boiler Operation

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Southern Oregon Boiler Operators JATC.

Course Description: Provides an introduction to the safety considerations, theory, tools, machinery, mathematics, blueprint reading and their applications in energy generation.

Course Learning Outcomes:

- CLO#1: Summarize the general and specific safety considerations in a boiler plant required to prevent on the job injury.
- CLO#2: Utilize basic mathematical principles to perform common boiler and engineering calculations.
- CLO#3: Read and utilize simple blueprints and drawings found in a boiler plant to create sketches.
- CLO#4: Recognize and explain operation and basic mechanics of machines utilized in the boiler plant. (ILO: Communication)
- CLO#5: Explain thermodynamics and heat transfer in relationship to boilers.
- CLO#6: Recognize advantages and uses of various boilers.

CLO#7: Identify proper valves, piping and fittings used to safely transfer and direct fluids by design.

CLO#8: Recognize materials used in boiler construction, piping and boiler auxiliary equipment.

CLO#9: Determine testing and inspection methods to insure material integrity and quality of assembly of pressure parts.

Typical Required and Recommended Equipment and Materials: Texas Instruments

Calculator TI 34II, Notebook, paper and writing tools, ruler, compass, mechanical pencil or lead holder and lead, gum eraser.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 120B - Mechanics of Steam Generated Power

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Southern Oregon Boiler Operators JATC.

Course Description: Provides the apprentice with an understanding of the thermodynamics of steam and the theory of combustion. Factors including air flow, gas removal, fuel characteristics, equipment design, and water chemistry will be included.

Course Learning Outcomes:

CLO#1: Demonstrate the understanding of the thermodynamics of steam and the basic concepts about matter.

CLO#2: Demonstrate the understanding of air and gas removal equipment found in a boiler plant.

CLO#3: Use the theory of combustion in the explaining characteristics of various fuels.

CLO#4: Explain application of various burner and grate designs for various fuels. (ILO: Communication)

CLO#5: Recognize and explain the advantages and disadvantages of various boiler designs based on assembly requirements and repair. (ILO: Critical Thinking)

CLO#6: Recognize and explain the importance of water chemistry, treatment methods and testing methods for raw water, condensate and feed water.

CLO#7: Recognizes the effects of improper water chemistry on lost efficiency and boiler casualties associated with water treatment.

Typical Required and Recommended Equipment and Materials: Texas Instruments

Calculator TI 34II, Notebook, paper and writing tools, ruler, compass, mechanical pencil or lead holder and lead, gum eraser.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 120C - Boiler Design and Operation

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Southern Oregon Boiler Operators JATC.

Course Description: Prepares the apprentice to conduct tests for water chemistry, proper installation of valves, steam traps, soot blowers, boiler startup and documentation of procedures and operation to assure efficient steam generation safely.

Course Learning Outcomes:

- CLO#1: Determine chemical composition of water used in boiler operation.
- CLO#2: Recognize piping and tubing used to connect controls, gages and instrumentation common to boiler operation.
- CLO#3: Identify valve operation by design characteristics. (ILO: Critical Thinking)
- CLO#4: Demonstrate considerations when sizing and maintaining steam traps.
- CLO#5: Recognize installation, pressure and alignment characteristics of soot blower design.
- CLO#6: Simulate the process of boiler warm up.
- CLO#7: List and explain the duties of the boiler operator.
- CLO#8: Explain procedures to prevent boiler casualty and emergency shut down when boilers fail.

Typical Required and Recommended Equipment and Materials: Texas Instruments Calculator TI 34II, Notebook, paper and writing tools, ruler, compass, mechanical pencil or lead holder and lead, gum eraser.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 120D - Steam Turbine Operation

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Southern Oregon Boiler Operators JATC.

Course Description: Provides an overview of steam turbine design, applications and maintenance. The principles of basic electricity and motor control theory pertinent to power generation and transmission will be included.

Course Learning Outcomes:

- CLO#1: Demonstrate and explain the operating principles of steam turbine operation.
- CLO#2: Explain the necessity of a schedule for turbine lubrication. (ILO: Communication)

- CLO#3: Explain basic electrical theory as it pertains to electric motor theory, motor controls, drives and operation. (ILO: Critical Thinking)
- CLO#4: Identify types and features of engines used as prime movers.
- CLO#5: Explain the functions and maintenance of equipment required for power transmission fuel conveyance.
- CLO#6: Determine size of reciprocating and centrifugal pumps to meet desired outcomes.
- CLO#7: Recognize and select proper pump protections equipment.
- CLO#8: Explain air compressor theory as it applied to reciprocating, screw, centrifugal and lobe compressors.

Typical Required and Recommended Equipment and Materials: Texas Instruments Calculator TI 34II. Notebook, paper and writing tools, ruler, compass, mechanical pencil or lead holder and lead, gum eraser.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 120E - Boiler Instrumentation and Control

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Southern Oregon Boiler Operators JATC.

Course Description: Introduces the apprentice to instrumentation and control devices used with various input/output mediums. Instruments required to take measurements in assessing the status of boiler operations will be introduced with detailed instruction of proper usage. Safety and efficient operation of the boiler will be a consideration in all discussions of control devices.

Course Learning Outcomes:

- CLO#1: Identify examples of open and closed loops.
- CLO#2: Use appropriate instrument and control components for measuring and sensing control parameters. (ILO: Critical Thinking)
- CLO#3: Identify and explain instrumentation and control devices used with various input and output mediums. (ILO: Communication)
- CLO#4: Recognizes the usage and general location of panel instrumentation and recording devices common to the boiler control room.
- CLO#5: Identify/explain draft and water level systems and the control components including control devices used to protect equipment and operating personnel.
- CLO#6: Apply the function of pneumatic control valves to plant operation.
- CLO#7: Use ASME Code to determine requirements for low water fuel cutoffs.
- CLO#8: Recognizes process computer applications and the equipment used to control boiler plant operation.

Typical Required and Recommended Equipment and Materials: Texas Instruments Calculator TI 34II. Notebook, paper and writing tools, ruler, compass, mechanical pencil or lead holder and lead, gum eraser.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 120F - Heating Boiler Operation - Install

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Southern Oregon Boiler Operators JATC.

Course Description: Provides detailed construction, installation and maintenance information for heating, hot water, water tube, tubular and cast-iron sectional boilers. Topics will include refractors, insulation, fittings, controls, basic refrigeration and security in the plant.

Course Learning Outcomes:

- CLO#1: Describe various types of refractory materials and insulation, including blanket, castable, poundable, brick, and spray-on refractories.
- CLO#2: Recognize design, construction and assembly of heating and hot water boilers.
- CLO#3: Identify the design differences of a fire tube heating boiler.
- CLO#4: Distinguish the types of fittings required for low pressure and heating boilers.
- CLO#5: Identify common controls and operation of heating boilers. Include proper warm up and automatic cut in of standby boilers.
- CLO#6: Explain the procedure for heating a boiler including maintenance, layup and water treatment.
- CLO#7: Recognize the equipment used to move and mix air within the boiler plant.
Equipment will include exchanger control and vacuum pump assisted condensate systems. (ILO: Critical Thinking)
- CLO#8: Explain the importance of conditioned air/water use in the plant, the basic refrigeration cycle and components including safe use and handling of refrigerants.
- CLO#9: Apply standard procedures for safety and to secure the boiler plant from unauthorized personnel.

Typical Required and Recommended Equipment and Materials: Texas Instruments Calculator TI 34II. Notebook, paper and writing tools, ruler, compass, mechanical pencil or lead holder and lead, gum eraser.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 127A - Electrical Theory I

4 Credit(s)

Prerequisite(s):

Registered Apprentice.

Course Description: Familiarizes the beginning electrical apprentice with both practical and theoretical aspects of electricity and electrical circuits.

Course Learning Outcomes:

- CLO#1: Demonstrate basic math, algebra, scientific notation, and scientific calculator functions in simple electrical calculations and basic applications. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Demonstrate Electrical Safety and Safe Work Practices basic to all electricians.
- CLO#3: Explain atomic structure and the theory of electricity, how electricity is produced, how electricity is measured, and the effects of electrical current flow. (ILO: Critical Thinking)
- CLO#4: Define terminology common to the electrical trade.
- CLO#5: Define characteristics of series circuits, parallel circuits and capacitors.
- CLO#6: Explain the importance of the Oregon State Statutes and Administrative rules and how they apply to the Electrical Trade, the current NFPA National Electrical Code and various indexes and electrical references.

Typical Required and Recommended Equipment and Materials: Scientific Calculator, ruler and notebook.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 127B - Electrical Theory II

4 Credit(s)

Prerequisite(s):

Registered Apprentice.

Course Description: Familiarizes the beginning electrical apprentice with more advanced aspects of electrical theory and math.

Course Learning Outcomes:

- CLO#1: Explain DC series, parallel, and combination circuits.
- CLO#2: Utilize various types of electrical measuring instruments and tables to determine conductor sizing.
- CLO#3: Explain the function and characteristics of electrical conduction, batteries, magnetic induction and alternating current. Circuits.
- CLO#4: Explain the inductance in alternating current circuits.
- CLO#5: Select and apply Ohm's law formulas from tables and charts.
- CLO#6: Perform basic Trigonometry for solving problems using sines, cosines and tangents. (ILO: Quantitative Literacy and Reasoning)

Typical Required and Recommended Equipment and Materials: Scientific Calculator, ruler and notebook.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per e term.

APR 127C - Electrical Theory III

4 Credit(s)

Prerequisite(s):

Registered Apprentice.

Course Description: Familiarizes the beginning electrical apprentice with advanced aspects of electrical theory, math, and power distribution.

Course Learning Outcomes:

CLO#1: Explain the characteristics and function of AC Resistive-Inductive Series and Parallel Circuits.

CLO#2: List the factors that determine the capacity of Capacitors and Capacitance in AC Electrical Circuits.

CLO#3: Explain operation of AC Resistive-Capacitive Series and Parallel circuits.

CLO#4: Explain characteristics of AC Resistive-Inductive Capacitive Series, Parallel, and Combination circuits.

CLO#5: Explain Inductive Capacitive Filter Networks and their uses.

CLO#6: Calculate the values of voltage, current, resistance, apparent power, true power, reactive power, impedance, capacitive reactance and power factor in both series and parallel circuits. (ILO: Quantitative Literacy and Reasoning)

Typical Required and Recommended Equipment and Materials: Scientific Calculator, ruler and notebook.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 127D - Advanced Electrical I

4 Credit(s)

Prerequisite(s):

Registered Apprentice.

Course Description: Expands electrical theory to three phase circuits, function and operation of single and three phase transformers, DC motors and generators, one and three phase motors and alternators, and calculations required for operation of circuits and transformers.

Course Learning Outcomes:

- CLO#1: Calculate three-phase power circuits. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Explain the function and purpose of single-phase and three-phase transformers.
- CLO#3: Calculate transformer size.
- CLO#4: Explain purpose and features of DC motors and generators.
- CLO#5: Explain purpose and features of three-phase alternators and motors.
- CLO#6: Explain the operation of a single-phase motor.

Typical Required and Recommended Equipment and Materials: Scientific Calculator, ruler and notebook.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 127E - Advanced Electrical II

4 Credit(s)

Prerequisite(s):

Registered Apprentice.

Course Description: This course is designed for the Inside Wireman Electrical Apprentice. Instruction includes Residential code calculations, motors, generators, transformers, blueprint reading, branch circuits, ampacity, and conduit fill.

Course Learning Outcomes:

- CLO#1: Perform inside wiring calculations using code requirements for: Branch Circuits, Motor Control Circuits, Ampacities, Branch Circuits, Motors, Feeder Taps, Box Fill, Conductor Sizing, Dwelling Unit Services Calculations. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Explain motor circuits, motor control circuits, motor connections and steps in motor troubleshooting.
- CLO#3: Explain generator circuits, generator connections, and steps in troubleshooting generator power problems.
- CLO#4: Explain transformer purpose and operation.
- CLO#5: Transpose blueprints to functional circuitry that include electrical symbols and electrical schematics.

Typical Required and Recommended Equipment and Materials: Calculator, ruler and notebook.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 127F - Advanced Electrical III

4 Credit(s)

Prerequisite(s):

Registered Apprentice.

Course Description: Increase understanding of formulas and tables used in calculating sizing of conductors, branch circuits, breakers and junction boxes. Applications will apply to single phase and three-phase loads. A variety of motor control circuit functions including two and three wire control, peripheral devices, interlocks, and Programmable Logic Controllers (PLC's) will be covered.

Course Learning Outcomes:

CLO#1: Determine proper conductor size by calculating current carrying limit (ampacity).

(ILO: Information Literacy)

CLO#2: Explain branch circuits and calculate branch circuits requirements.

CLO#3: Size branch circuits, conductors, and over-current protection for three-phase and single-phase loads.

CLO#4: Size circuit breakers and feeder conductors for three-phase and single-phase motors.

CLO#5: Calculate tap conductor size for three-phase and single- phase loads.

CLO#6: Operate motor control circuits, using two and three wire control, peripheral devices, interlocks, and Programmable Logic Controllers (PLC's).

CLO#7: Size junction and pull boxes for conduit and wire.

Typical Required and Recommended Equipment and Materials: Calculator, ruler and notebook.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 129A - Aviation General I

6 Credit(s)

Prerequisite(s):

Registered Apprentices with Southern Oregon Aviation JATC.

Course Description: This course covers key concepts and practical skills essential for apprentices in the Airframe and Power Plant Mechanic Apprenticeship program. Topics include aircraft ground handling techniques, understanding FARs and technical publications, and applying mathematics to aviation maintenance tasks. Apprentices will also learn to read blueprints and drawings, understand basic physics and aerodynamics, and identify fasteners and hardware used in aircraft systems. This course provides the foundational knowledge necessary for safe, precise, and efficient aircraft maintenance.

Course Learning Outcomes:

CLO#1: List and define basic physical science applications associated with aviation.

- CLO#2: Explain the basic principles of flight, including aerodynamic forces, gyroscopic precession, and control surfaces on fixed-wing and rotary-wing aircraft.
- CLO#3: Define aircraft functions, operations and components using industry terminology. (ILO: Information Literacy)
- CLO#4: Apply Federal Aviation Regulations (FARs) and related Codified Federal Regulations to ensure compliance when performing required duties.
- CLO#5: Identify the basic symbols used in aircraft drawings, differentiating types of drawings, views and projections used in aircraft maintenance.
- CLO#6: Demonstrate proper procedures for towing or taxiing aircraft, fueling (over wing or pressure), and conducting fuel system contamination testing.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture hours per term, not to exceed (72) hours per term.

APR 129B - Aviation General II

6 Credit(s)

Prerequisite(s):

Registered Apprentices with Southern Oregon Aviation JATC.

Course Description: This course covers critical topics in aviation maintenance, including corrosion detection and removal, fluid lines and fittings, and non-destructive testing. Apprentices will learn proper use of hand tools and measuring devices, understand mechanic privileges and limitations, and apply human factors and risk management principles to enhance safety. This course ensures apprentices are equipped with the technical and safety knowledge required for effective aircraft maintenance and compliance with industry standards.

Course Learning Outcomes:

- CLO#1: Identify safe and effective methods for removing corrosion from metallic components using manual, chemical, and mechanical processes. (ILO: Critical Thinking)
- CLO#2: Explain the purpose and functions of fluid line systems in aircraft, including hydraulic, fuel, and lubrication systems.
- CLO#3: Explain the purpose of non-destructive testing (NDT) and its role in verifying the safety and integrity of aircraft components without causing damage.
- CLO#4: Identify appropriate hand tools commonly used in aircraft maintenance.
- CLO#5: Explain the role and responsibilities of an airframe and powerplant (A&P) mechanic in maintaining and repairing aircraft, ensuring airworthiness, and adhering to regulatory standards.
- CLO#6: Explain risk mitigation techniques to maintain a safe working environment.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture hours per term, not to exceed (72) hours per term.

APR 129C - Aviation General III

6 Credit(s)

Prerequisite(s):

Registered Apprentices with Southern Oregon Aviation JATC.

Course Description: Introduces basics of electricity through electrical systems regarding aviation and aircraft. Special emphasis will be given to introduction to basic electricity, chemical energy, aircraft batteries, magnetism, types of electricity, production of electricity, electrical relationships, Ohm's law, direct current electricity, alternating current electricity, circuits and components, electrical motors, generators, and aircraft circuits. This course is designed to prepare for the FAA licensing examination.

Course Learning Outcomes:

CLO#1: Identify different types of electricity and the power source that creates it. (ILO: Critical Thinking)

CLO#2: Explain different components associated with an electrical circuit.

CLO#3: Identify the different types of chemical energy sources and batteries used in aircraft as well as the service and maintenance of aircraft batteries.

CLO#4: Identify types of electrical motors and generators, their internal components, and the forms of power used to drive them.

CLO#5: Describe various aircraft electrical systems, including circuits for landing gear, lighting, and other operational components.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture hours per term, not to exceed (72) hours per term.

APR 129F - Aviation Airframe I

3 Credit(s)

Prerequisite(s):

Registered Apprentice with Southern Oregon Aviation JATC, or properly registered student taking additional aviation related training.

Course Description: This course covers the fundamentals of aircraft structural design and key materials used in construction, including metals, wood, and composites. Apprentices will learn about the purpose and function of major components like the fuselage, wings, and landing gear. The course also explores the importance of protective coatings for corrosion prevention and the basics of aircraft electrical systems, including batteries, generators, and circuit breakers. By the end of the course, apprentices will gain essential knowledge to maintain and repair aircraft structures and systems.

Course Learning Outcomes:

- CLO#1: Explain the basic principles of aircraft structural design, including the purpose and function of various components like fuselage, wings, empennage, and landing gear.
- CLO#2: Explain the properties of common materials used in aircraft structures, such as aluminum, steel, titanium, and various types of wood.
- CLO#3: Explain the composite materials commonly used in aircraft structures, including carbon fiber, fiberglass, and aramid.
- CLO#4: Define the purpose of protective coatings in preventing corrosion and maintaining aircraft aesthetics and structural integrity. (ILO: Critical Thinking)
- CLO#5: Describe the major components of an aircraft electrical system, such as batteries, generators, alternators, buses, and circuit breakers.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term, with some associated practical application.

APR 201A - Machinist - CNC Controls

2 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Industrial Advanced Manufacturing JATC.

Course Description: This course is designed to develop an understanding as well as the capabilities and limitations of the Haas VF-Series Mill CNC Control. Basic functions and operating modes of the control are also covered as well as safety and maintenance.

Course Learning Outcomes:

- CLO#1: Observe and demonstrate safe and correct steps to set up a CNC milling machine for production.
- CLO#2: Demonstrate operation modes of the Haas controller.
- CLO#3: Analyze setup sheets to judge which sets of tools and/or procedures are required to complete projects. (Critical Thinking)
- CLO#4: Safely perform routine machine maintenance according to established procedures.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-36X is recommended), safety glasses.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 201B - Machinist CNC Programming - Mill

2 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Industrial Advanced Manufacturing JATC.

Course Description: Covering basic Computer Numerical Control (CNC) programming of the Haas vertical mill as well as machine set-up and operation, this course emphasizes manual data input programming and manual program editing. Students will gain experience reading, writing and editing part programs using industry standard G & M code programming.

Course Learning Outcomes:

CLO#1: Demonstrate a working knowledge of introductory CNC Mill programming.

CLO#2: Demonstrate expanded critical thinking skills and focuses three-dimensional thinking, as to how cutter paths are determined. (Critical Thinking)

CLO#3: Demonstrate proper safety practices in the lab and workplace.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-36X is recommended), scratch paper for calculations/notes, pen or mechanical pencil.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 201C - Machinist CNC Programming - Lathe

2 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Industrial Advanced Manufacturing JATC.

Course Description: Covering basic Computer Numerical Control (CNC) programming of the Haas turning center (lathe) as well as machine set-up and operation, this course emphasizes personal and machine safety, manual data input programming, and manual program editing. Students will gain experience reading, writing and editing part programs using industry standard G & M code programming.

Course Learning Outcomes:

CLO#1: Demonstrate a working knowledge of industry CNC Lathe programming.

CLO#2: Demonstrate expanded critical thinking skills and focuses three-dimensional thinking, as to how cutter paths are determined. (ILO: Critical Thinking)

CLO#3: Demonstrate proper safety practices in the lab and workplace.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-36X is recommended), scratch paper for calculations/notes, pen or mechanical pencil.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 202A - Machinist CAM I Mastercam 2D

2 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Industrial Advanced Manufacturing JATC.

Course Description: First course in a set of three. Introducing Mastercam CAD/CAM software to students, with training to design parts and toolpaths for a modern CNC vertical machining center, this course has a primary focus on Haas machines. Covering the creation of two- and three-dimensional wire frame geometry, relevant to PC based CAD/CAM work. Emphasis is on proper geometry creation, manipulation and management of toolpath. Safety and efficient machining will be stressed throughout the course.

Course Learning Outcomes:

- CLO#1: Determines which set of software tools will produce the desired results. Demonstrate procedures for setting up the 2D CAD/CAM model and posting code for CNC mill. (ILO: Critical Thinking)
- CLO#2: Prevents, identifies, or solves problems in 2D CAD/CAM models, code, and computers.
- CLO#3: Demonstrate proper safety practices in the lab and workplace.

Typical Required and Recommended Equipment and Materials: Flash drive, 8 Gig minimum recommended.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 202B - Machinist CAM II Mastercam 3D

2 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Industrial Advanced Manufacturing JATC.

Course Description: As the second of two courses for Mastercam CAD/CAM software, this course teaches students how to construct advanced 3D geometric models using geometric, free form, and derived surface types.

Course Learning Outcomes:

- CLO#1: Determine which set of software tools will produce the desired results and understands the intent and the proper procedures for setting up the 3D CAD/CAM model and posting code for CNC mill.
- CLO#2: Prevent, identify, or solve problems in 3D CAD/CAM models, code, and computers. (ILO: Critical Thinking)
- CLO#3: Demonstrate proper safety practices in the lab and workplace.

Typical Required and Recommended Equipment and Materials: Flash drive, 8 Gig minimum recommended.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 202C - Machinist Mastercam 4th Axis Prgmg

2 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Industrial Advanced Manufacturing JATC.

Course Description: Introduces students to the basic fundamentals of learning how to use Mastercam software to program 4th axis parts for Haas vertical machining centers.

Course Learning Outcomes:

CLO#1: Demonstrate an introductory working knowledge of Haas rotary indexer usage and safe operation. (ILO: Critical Thinking)

CLO#2: Demonstrate skills necessary to create industry standard toolpaths for 4th axis programming.

CLO#3: Demonstrate proper safety practices in the lab and workplace.

Typical Required and Recommended Equipment and Materials: Scientific calculator, 8 GB USB drive minimum

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 203A - Machinist Welding Fundamentals I

2 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Industrial Advanced Manufacturing JATC.

Course Description: Introduces basic theory of oxy/fuel cutting/welding, shielded metal arc welding, and gas metal arc welding with emphasis on safety. Includes basic skill development in preparation of metal, welding, and cutting.

Course Learning Outcomes:

CLO#1: Perform all tasks in accordance with all program and industry standards.

- CLO#2: Operate welding machine setup and adjustment. Identify electrodes using AWS system. (ILO: Critical Thinking)
- CLO#3: Independently assemble, set up and operate oxy fuel welding system. Produce industry quality welds in the flat and horizontal positions. Weld configurations to include but lap and T welds.
- CLO#4: Safely and independently set up, light and adjust an oxy fuel cutting system. Produce industry quality straight and circular cuts on varying thicknesses of plate.
- CLO#5: Produce sound welds using E6010/11 in the flat and horizontal position.
- CLO#6: Demonstrate safe operation practices of bandsaws, pedestal and angle grinders.

Typical Required and Recommended Equipment and Materials: Students will provide his/her own personal protective clothing which shall include: welding hoods, safety glasses, leather jacket and chaps, leather welding gloves, welding hat, and slag hammer/wire brush.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 203B - Machinist Welding Fundamentals II

2 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Industrial Advanced Manufacturing JATC.

Course Description: Continues study in oxy/fuel cutting/welding, shielded metal arc welding, with emphasis on safety.

Course Learning Outcomes:

- CLO#1: Perform all tasks in accordance with all program and industry standards.
- CLO#2: Independently demonstrate proper welding machine setup and adjustment. Identify electrodes using AWS system. (ILO: Critical Thinking)
- CLO#3: Produce industry quality welds using E 7018 in the flat, horizontal positions and vertical positions.
- CLO#4: Safely and independently set up and adjust a plasma cutting system. Produce industry quality straight and circular cuts on varying thicknesses of plate.
- CLO#5: Set up, adjust and perform air carbon arc gouging on carbon steel.

Typical Required and Recommended Equipment and Materials: Students will provide his/her own personal protective clothing which shall include: welding hoods, safety glasses, leather jacket and chaps, leather welding gloves, welding hat, and slag hammer/wire brush.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 207A - HVAC Systems I

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Valley HVAC/R JATC.

Course Description: Develops the ability to perform residential/commercial heat-loss calculations for heating systems and size system components. Additional system topics will include: Recharging a refrigeration system; Service estimates; Absorption and compression refrigeration systems; Physical principles of air movement and humidity.

Course Learning Outcomes:

CLO#1: Identify the characteristics of the commercial refrigeration system and applications.

CLO#2: Calculate heat gain and loss to determine load. (ILO: Quantitative Literacy and Reasoning)

CLO#3: Explain the process of recharging a refrigeration system.

CLO#4: Size system components based on design requirements and heat/cooling calculations.

CLO#5: Explain the operation of absorption and compression systems.

CLO#6: Identify systems that exhibit the physical principles of air movement and humidity using the principle of psychometrics.

Typical Required and Recommended Equipment and Materials: Calculator, notebook, ruled paper.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 207B - HVAC Systems II

2 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Valley HVAC/R JATC.

Course Description: Provides an understanding of special refrigeration systems and their applications, the fundamentals of air conditioning, basic heating and air conditioning systems and heating and humidification systems.

Course Learning Outcomes:

CLO#1: Apply the fundamentals of air conditioning in HVAC comfort systems.

CLO#2: Explain the operation of a basic heating and air conditioning system.

CLO#3: Use the understanding of the operation of a heating and humidification system to select equipment for simulated installations. *Green training. (ILO: Critical Thinking)

CLO#4: Explain the applications and installation requirements of special refrigeration systems. *Green training.

Typical Required and Recommended Equipment and Materials: Calculator, notebook, ruled

paper.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 207C - HVAC Systems III

2 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Valley HVAC/R JATC.

Course Description: The course is a continuation of the systems series and includes cooling and dehumidifying systems, central air conditioning and heat pumps, solar energy systems, advanced air conditioning-heating systems, and automotive air conditioning.

Course Learning Outcomes:

- CLO#1: Apply operational theory as it relates cooling and dehumidification systems.
- CLO#2: Draw simple and rolling offsets, as well as offsets on parallel runs of pipe.
- CLO#3: Use the characteristics and installation requirements of current Solar Energy systems when selecting a system for any of the following: heat generation, hot water generation and/or energy generation.
- CLO#4: Calculate air conditioning heating and cooling loads based on space envelope. (ILO: Qualitative Literacy and Reasoning)
- CLO#5: Utilize principles of heating and cooling to perform installation, troubleshooting and repair of automotive air conditioning.

Typical Required and Recommended Equipment and Materials: Calculator, notebook and ruled paper.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 207D - HVAC Airflow and Systems Control I

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Valley HVAC/R JATC.

Course Description: Provides a review of basic refrigeration and A/C controls in preparation for determining ventilation requirements, calculating duct size, utilization of instruments in checking airflow and draft control. Control systems, control circuit diagrams and architectural blueprints will be used to make calculations.

Course Learning Outcomes:

- CLO#1: Determine ventilation requirements for HVAC applications.
- CLO#2: Calculate sizing of ducts for HVAC applications. (ILO: Quantitative Literacy and Reasoning)
- CLO#3: Gather data utilizing selected instruments in checking airflow and draft control for HVAC applications.
- CLO#4: Identify symbols and installation requirements of control systems by using control circuit diagrams.
- CLO#5: Interpret architectural blueprints when determining HVAC features of the building envelope.

Typical Required and Recommended Equipment and Materials: Calculator, notebook and ruled paper.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 207E - HVAC Airflow and Systems Control II

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Rogue Valley HVAC/R JATC.

Course Description: Introduces the primary concepts that lead to building controls systems including thermostats, pneumatic controls and microprocessor based/ Direct Digital Control (DDC) systems. Servicing, troubleshooting and troubleshooting procedures will be included.

Course Learning Outcomes:

- CLO#1: Explain the characteristics of current A/C Heating Control Systems technology.
- CLO#2: Select appropriate control system using blueprints, schematics, building envelop use and human factor. (ILO: Information Literacy)
- CLO#3: Design a functional A/C heating control system using thermostats and/or pneumatic controls.
- CLO#4: Design a functional DDC system including controllers, communications devices and operational software
- CLO#5: Compare and contrast the servicing requirements for thermostats, pneumatic controls and DDC systems.
- CLO#6: Demonstrate troubleshooting procedures including tools and measurement equipment used for assessment and repair.

Typical Required and Recommended Equipment and Materials: Calculator, notebook, ruled paper.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required stated minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 207F - HVAC Operation and Systems Review**4 Credit(s)****Prerequisite(s):**

Registered Apprentice with Rogue Valley HVAC/R JATC.

Course Description: Provides review of basic air conditioning, refrigeration, schematics, electrical components, building codes, service and troubleshooting fundamentals covered the during previous eleven terms in preparation for the HVAC-JATC Journeyman's test.

Course Learning Outcomes:

- CLO#1: Explain the characteristics of current A/C Heating Control Systems technology.
- CLO#2: Recognize and apply standard building codes guidelines.
- CLO#3: Successfully pass the Oregon HVAC and R Journeyman Test. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Calculator, notebook, ruled paper.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 211A - Water Supply Systems**4 Credit(s)****Prerequisite(s):**

Registered Apprentice with Area V Plumbers JATC.

Course Description: Provides applied math concepts that include geometry, instruction on how to size water piping in all applications and treatment of potable water for private and public water systems.

Course Learning Outcomes:

- CLO#1: Weigh and measure water using both the English and metric system.
- CLO#2: Calculate area and volume in practical plumbing applications.
- CLO#3: Use the concepts of temperature and pressure to assess effects on plumbing installations.
- CLO#4: Explain the function and application of six simple machines: inclined plane, lever, pulley, wedge, screw, wheel and axle in relation to plumbing.
- CLO#5: Size water systems for differing flow rates using the four factors that affect a potable water supply.

- CLO#6: Determine system installation based on the difference between a continuous-flow system and an intermittent-flow system.
- CLO#7: Calculate flow rates for high-flow-rate fixtures and identify high-flow-rate fixtures. (ILO: Quantitative Literacy and Reasoning)
- CLO#8: Estimate the affect friction and flow have on water supply systems.
- CLO#9: Lay out a water supply system efficiently by calculating delivery lengths and pressure drops.
- CLO#10: Flush and disinfect a visible contaminate from a potable water system.
- CLO#11: Identify common water problems and the basic techniques and equipment to solve problems.
- CLO#12: Test water to determine conditioning required.
- CLO#13: Select and install water conditioning equipment that treats water characteristics.

Typical Required and Recommended Equipment and Materials: CI Construction Master Pro 4060 Calculator or equivalence. Notebook, paper and writing tools, ruler, 30- 60-degree triangle, eraser, mechanical pencil or lead holder and lead.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 211B - Plumbing DWV and Compressed Air

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Area V Plumbers JATC.

Course Description: Covers sizing Drain, Waste, and Vent (DWV) piping as well as sizing storm drains, roof drains and roof storage and drainage systems. There will be coverage of sewage pumps and sump pumps which includes sizing, installations, troubleshooting and repair. The course will also cover compressed air line installation, sizing and troubleshooting.

Course Learning Outcomes:

- CLO#1: Calculate drainage fixture units for waste system, building drain size, sewers and vent systems.
- CLO#2: Calculate fixture size of roof drainage systems. (ILO: Quantitative Literacy and Reasoning)
- CLO#3: Identify and explain sizing requirements of special kinds of waste and vent systems.
- CLO#4: Explain the functions, components, and operation of sewage and sump pumps and calculate sizing of storm water sump and sewage pump.
- CLO#5: Install, adjust sensors, troubleshoot and repair switches and alarms in sewage and sump pumps.
- CLO#6: Using a detailed drawing identify system components, code requirements and installation requirements of sump pumps.
- CLO#7: Explain compressed air systems, their components and accessories, procedure for installation and considerations in selection.

- CLO#8: Identify the types, functions, and capacities of different air compressor systems including the safety issues related to each type.
- CLO#9: Install a basic compressed air system.

Typical Required and Recommended Equipment and Materials: CI Construction Master Pro 4060 Calculator or equivalent, notebook, paper and writing tools, ruler, 30- 60-degree triangle, eraser, mechanical pencil or lead holder and lead.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 211C - Plumbing Backflow Prevention

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Area V Plumbers JATC.

Course Description: Introduces the principles and hazards of backflow prevention, and reviews different types of vents that can be installed in a drain, waste and vent system. It also covers corrosive waste and reviews the safety issues and hazard communications.

Course Learning Outcomes:

- CLO#1: Explain the principle of backflow due to back siphon age or back pressure, the hazards of backflow and the importance of backflow presenters. (ILO: Critical Thinking)
- CLO#2: Identify and explain the applications of the six basic backflow prevention devices.
- CLO#3: Explain installation of common types of backflow devices.
- CLO#4: Explain how a vent system works and the applications of each type of vent required for different drains, waste and vent systems.
- CLO#5: Design vent systems according to local code requirements and sketch the different types of vents.
- CLO#6: Identify corrosive waste and explain where they are found.
- CLO#7: Explain types of materials used for corrosive-resistant waste piping and methods of joining corrosive-resistant waste piping. (ILO: Critical Thinking)
- CLO#8: Identify and use HazCom labels and material safety data sheets when handling corrosive materials and installing corrosive waste piping.

Typical Required and Recommended Equipment and Materials: CI Construction Master Pro 4060 Calculator or equivalent. Notebook, paper and writing tools, ruler, 30- 60-degree triangle, eraser, mechanical pencil or lead holder and lead.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 211D - Review of Oregon Plumbing Code

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Area V Plumbers JATC.

Course Description: Provides a review of all Oregon state plumbing codes, OSHA rules and the use of mathematics in plumbing in preparation for taking the Oregon Plumber Licensing Examination (OPLE).

Course Learning Outcomes:

- CLO#1: Use mathematical principles to perform advanced plumbing calculations.
- CLO#2: Locate and use current code in application of specific plumbing practices.
- CLO#3: Recognize general and specific safety considerations in plumbing to prevent injuries and damages. (ILO: Information Literacy)
- CLO#4: Explain the differences in plumbing protocol between service and repair work.
- CLO#5: Locate and use current code in applications in plumbing practices.

Typical Required and Recommended Equipment and Materials: Calculator, notebook, paper and writing tools, ruler, 30- 60-degree triangle, eraser, mechanical pencil or lead holder and lead.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, (48) hours per term.

APR 211E - Plumbing Test Prep I

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Area V Plumbers JATC.

Course Description: Serves as the first of two designed to review all preceding plumbing apprenticeship classes to prepare for successful passage of the Oregon Plumbing Licensing Exam (OPLE).

Course Learning Outcomes:

- CLO#1: Locate and use current code in applications in plumbing practices.
- CLO#2: Select correct piping and fittings, waste sizing, joints, clean-outs and drainage requirements using the basic principles of sanitary drainage. (ILO: Critical Thinking)
- CLO#3: Explain basic principles of indirect waste.
- CLO#4: Explain basic principles of vents.
- CLO#5: Explain basic principles of traps and interceptors.
- CLO#6: Explain the theory and process of installation of medical gasses.
- CLO#7: Differentiate between plumbing codes related to installation of plumbing in various areas of a hospital.
- CLO#8: Install fittings, valves and gauges in compliance with certification for installation of medical gases.

Typical Required and Recommended Equipment and Materials: Calculator, notebook, paper and writing tools, ruler, 30- 60-degree triangle, eraser, mechanical pencil or lead holder and lead.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 211F - Plumbing Test Prep II

4 Credit(s)

Prerequisite(s):

Registered Apprentice with Area V Plumbers JATC.

Course Description: The second in a series designed to prepare the fourth-year apprentice for taking the Oregon Plumber Licensing Examination (OPLE).

Course Learning Outcomes:

- CLO#1: Recognize and use current code situations appearing in recent applications of plumbing practices. (ILO: Communication)
- CLO#2: Pass the OPLE.

Typical Required and Recommended Equipment and Materials: Calculator, notebook, paper and writing tools, ruler, 30- 60-degree triangle, eraser, mechanical pencil or lead holder and lead.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 216A - Millwright Machine Shop I

2 Credit(s)

Prerequisite(s):

Registered Apprentice with the Jackson County Millwrights JATC.

Course Description: Provides an overview of carpentry skills needed by the journeyman millwright. Topics include shop safety, hand, stationary and pneumatic tool operation, and construction methods.

Course Learning Outcomes:

- CLO#1: Accurately use ruler, micrometer, dial calipers and protractor as required in the machine shop.
- CLO#2: Read blueprints to accurately determine layout and metal removal. (ILO: Critical Thinking)

- CLO#3: Demonstrate shop safety at all times in the machine shop.
- CLO#4: Operate common machine tools including troubleshooting and maintenance.
- CLO#5: Operate the engine lathe to complete sample components.
- CLO#6: Operate the vertical mill to complete sample components.
- CLO#7: Operate the horizontal mill to complete a sample component.

Typical Required and Recommended Equipment and Materials: Calculator, ruler paper and notebook.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 216B - Millwright Machine Shop II

2 Credit(s)

Prerequisite(s):

Registered Apprentice with the Jackson County Millwrights JATC, and APR 216A .

Course Description: Provides an overview of carpentry skills needed by the journeyman millwright. Topics include shop safety, hand, stationary and pneumatic tool operation, and construction methods.

Course Learning Outcomes:

- CLO#1: Accurately uses measuring instruments to determine accuracy of machined parts.
- CLO#2: Draft parts specification and lay out material using the hand drafted plan.
- CLO#3: Select required shop equipment and prioritize the machining process given simulation. (ILO: Critical Thinking)
- CLO#4: Operate common machine tools including troubleshooting and maintenance.
- CLO#5: Operate the engine lathe to complete sample components.
- CLO#6: Operate the vertical mill to complete sample components.
- CLO#7: Operate the horizontal mill to complete a sample component.

Typical Required and Recommended Equipment and Materials: Calculator, ruler paper and notebook.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 216C - Millwright Drafting

4 Credit(s)

Prerequisite(s):

Registered Apprentice with the Jackson County Millwrights JATC.

Course Description: A one-term course that will supplement on-the-job training with technical training required for trade comprehension, applications, and practices. The course introduces the apprentices to basic mechanical drafting techniques. Topics include mathematical calculations used to determine circular, linear, area and volume measurements, drafting terminology, characteristics of various types of drawings, drafting symbols and blueprint interpretation.

Course Learning Outcomes:

- CLO#1: Operate a calculator using standard operating procedures.
- CLO#2: Calculate circular, linear, area and volume measurements in inches and metric. (ILO: Quantitative Literacy and Reasoning)
- CLO#3: Explain differing characteristics of drawing types using drawing terms and blueprints.
- CLO#4: Explain the meaning and purpose of basic symbols found on schematics and blueprints when replicating part fabrication and troubleshooting.
- CLO#5: Locate faults/errors in schematic drawings, give examples and make revisions to allow troubleshooting to proceed.

Typical Required and Recommended Equipment and Materials: Calculator, ruler paper and notebook.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 216D - Millwright Industrial Hydraulics I

2 Credit(s)

Prerequisite(s):

Registered Apprentice with the Jackson County Millwrights JATC.

Course Description: Supplements on-the-job training with technical training required for trade comprehensive, application, and practices. A Vickers hydraulic training power unit is used to demonstrate different aspects of fluid power, which includes pumps, motors, cylinders, manually and electrically-operated directional valves, flow controls, pressure reducing devices, fittings, and various types of piping, hoses, etc.

Course Learning Outcomes:

- CLO#1: Identify basic hydraulic components and explain the function of these components.
- CLO#2: Map the evolution of fluid power, show understanding of basic system principals and characteristics of the hydraulic components. (ILO: Critical Thinking)
- CLO#3: Explain the theoretical aspects of hydraulic & pneumatic control.
- CLO#4: Perform related mathematic functions to support the theory of hydraulics and pneumatics.
- CLO#5: Practice safety and industry standards in all applications including lock-out, tag-out, equipment function, maintenance procedures and human error.

ACTI Code and Course Type

230 Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 216E - Millwright Industrial Hydraulics II

2 Credit(s)

Prerequisite(s):

Registered Apprentice with the Southern Oregon Millwright JATC; and APR 216D.

Course Description: The advanced Hydraulics-Pneumatics course is the second in a series designed to supplement on-the-job training with technical training required for trade comprehensive, application, and practices. A Vickers hydraulic training power unit is used to demonstrate advanced aspects of fluid power, which includes pumps, motors, cylinders, manually and electrically-operated directional valves, flow controls, pressure reducing devices, fittings, and various types of piping, hoses, etc.

Course Learning Outcomes:

- CLO#1: Explain the operation and mechanics of hydraulic components the 4th year apprentice may encounter on the job.
- CLO#2: Evaluate Hydraulic and Pneumatic designs using mathematic formulas to calculate expected outcomes, maintenance procedures and installation requirements. (ILO: Quantitative Literacy and Reasoning)
- CLO#3: Read and create Hydraulic and Pneumatic Schematics.
- CLO#4: Troubleshoot hydraulic and pneumatic operations/functions using system design, schematics, system process and component characteristics.
- CLO#5: Practice safety and industry standards in all applications involving equipment function, maintenance procedures and human error.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 216F - Millwright Rigging

4 Credit(s)

Prerequisite(s):

Registered Apprentice with the Jackson County Millwrights JATC.

Course Description: Prepares the apprentice to apply general and specific rigging applications on the work site that may include lifting and positioning equipment; using ropes, cables, hoists and cranes. Topics include: Evolution of rigging systems; Mathematics of rigging; Basic system principles; Rope tying techniques; Real work situations; and Mobile and stationary crane operation.

Course Learning Outcomes:

- CLO#1: Use mathematical formulas to determine rigging specifications, design, components and component fabrication. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Explain rope characteristics, selection criterion, strength, safety considerations and demonstrate tying techniques.
- CLO#3: Explain wire rope characteristics, selection criterion, strength, safety considerations and demonstrate tying techniques.
- CLO#4: Explain slings, tags, chains and hook characteristics, selection criterion, necessary service checks, and safety considerations.
- CLO#5: Select force-multiplying devices including block and tackle and hoists that use force for distance.
- CLO#6: Calculate load ratings from crane lifting charts and formula to boom height and ratings.
- CLO#7: Operate a lift crane safely.

Typical Required and Recommended Equipment and Materials: Calculator, ruler and three ring notebook.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 216G - Millwright Industrial Pneumatics**2 Credit(s)****Prerequisite(s):**

Registered Apprentice with the Jackson County Millwrights JATC.

Course Description: This course supports on-the-job training by providing the technical knowledge needed for a comprehensive understanding of industrial pneumatics. Through hands-on experience with a compressed air training unit, students will learn the practical applications of pneumatic systems, including air compressors, cylinders, directional valves (manual and electric), flow and pressure controls, fittings, piping, hoses, and more.

Course Learning Outcomes:

- CLO#1: Evaluate hazards in pneumatic systems and apply safety protocols, maintenance procedures, and strategies to ensure a safe workplace. (ILO: Information Literacy)
- CLO#2: Describe theoretical principles underlying pneumatic control systems, including concepts of pressure, flow, and force, and their application in industrial settings. (ILO: Critical Thinking)
- CLO#3: Apply mathematical functions and calculations to solve pneumatic problems, reinforcing the principles of pneumatic systems and their operation.
- CLO#4: Identify the function of key pneumatic components, including air compressors, cylinders, valves, and regulators, and how they contribute to system performance.
- CLO#5: Interpret pneumatic schematics and use industry-standard symbols to enable communication and accurate understanding of system design.

CLO#6: Demonstrate troubleshooting techniques to diagnose and resolve issues in pneumatic systems and components, ensuring optimal functionality.

Typical Required and Recommended Equipment and Materials: Hand-held calculator (TI-30X2S), ruled paper and notebook.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

APR 218A - Sheet Metal - AutoCAD Basics

3 Credit(s)

Prerequisite(s):

Registered Apprentice with the South Central Oregon Sheet Metal JATC.

Course Description: Apprentices in this course will learn AutoCAD key functions to create AutoCAD layout projects that supports industry's need for precise design, accurate fabrication, and an ability to make adjustments so that errors are reduced in production.

Course Learning Outcomes:

CLO#1: Describe the application of AutoCAD in construction and identify its key functions within the industry.

CLO#2: Demonstrate the use of basic AutoCAD tools and key functions.

CLO#3: Create an assigned AutoCAD layout based on project specifications. (ILO: Critical Thinking)

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

APR 218B - Sheet Metal - Basic Welding

3 Credit(s)

Prerequisite(s):

Registered Apprentice with the South Central Oregon Sheet Metal JATC.

Course Description: This course teaches apprentices welding techniques specific to MIG, TIG, and ARC welding, which are essential in sheet metal fabrications.

Course Learning Outcomes:

CLO#1: Demonstrate welding techniques specific to MIG welding.

CLO#2: Demonstrate welding techniques specific to TIG welding.

CLO#3: Demonstrate welding techniques specific to ARC welding.

CLO#4: Demonstrate proper safety techniques in welding environments. (ILO: Critical Thinking)

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

APR 218C - Sheet Metal - Advanced Welding

3 Credit(s)

Prerequisite(s):

Registered Apprentice with the South Central Oregon Sheet Metal JATC.

Course Description: This course serves as the capstone for Year Three of the program, where apprentices will fabricate layout and welding projects that meet industry standards while demonstrating proper safety techniques in welding environments.

Course Learning Outcomes:

CLO#1: Fabricate proper layout and welding project. (ILO: Critical Thinking)

CLO#2: Demonstrate proper safety techniques in welding environments.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

APR 218D - Sheet Metal - Brazing and Soldering

3 Credit(s)

Prerequisite(s):

Registered Apprentice with the South Central Oregon Sheet Metal JATC.

Course Description: This course teaches apprentices proper brazing and soldering techniques that allow for joining different metals and thin sheets without damaging base metals. This course prepares apprentices to take a brazing certification test.

Course Learning Outcomes:

CLO#1: Demonstrate proper techniques for prepping and performing brazing & soldering.

CLO#2: Demonstrate proper techniques in soldering with soldering irons. (ILO: Critical Thinking)

CLO#3: Prepare to take and pass the Brazing certification test.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

APR 218E - Sheet Metal - SMACNA

3 Credit(s)

Prerequisite(s):

Registered Apprentice with the South Central Oregon Sheet Metal JATC.

Course Description: This course teaches apprentices how to choose appropriate hangers based on weight, load requirements, and specific applications in the sheet metal industry. This course also covers and reinforces The Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) set of standards for industry.

Course Learning Outcomes:

CLO#1: Compare and contrast gauge, hanger types, and spacing of hangers.

CLO#2: Apply SMACNA rules to HVAC duct construction.

CLO#3: Apply SMACNA rules to sheet metal flashing design. (ILO: Quantitative Literacy and Reasoning)

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

APR 218F - Sheet Metal - Project Management

3 Credit(s)

Prerequisite(s):

Registered Apprentice with the South Central Oregon Sheet Metal JATC.

Course Description: This course serves as the capstone for Year Four of the Sheet Metal Apprenticeship Program, where apprentices will identify and improve their individual management skills to meet industry expectations while developing effective techniques in managing people, materials, and time to support career advancement.

Course Learning Outcomes:

CLO#1: Evaluate personal skill gaps and develop strategies to strengthen skills.

CLO#2: Demonstrate effective skills in managing people, materials, and time. (ILO: Communication)

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

APR 227A - National Electrical Code I

4 Credit(s)

Prerequisite(s):

Registered Apprentice.

Course Description: The first in a three-part series designed to familiarize the Electrical Apprentice with the current National Electrical Code (NEC) edition. Emphasis will include motor calculations, wire sizing, transformers and trade safety. All topics will include technical applications and NEC implications.

Course Learning Outcomes:

- CLO#1: Identify types of conductors based on NEC requirements (i.e., grounded conductors, ungrounded conductors, grounding conductors) and their use in circuits.
- CLO#2: Select proper wire type and size based on desired outcome requirements.
- CLO#3: Calculate branch circuit, feeder, and service demand for cooking appliances.
- CLO#4: Calculate dwelling and commercial service and feeder loads. Calculation disconnecting means size for each. (ILO: Quantitative Literacy and Reasoning)
- CLO#5: Explain the characteristics of grounding and bonding and the determinations involved in the selection of grounding vs. bonding in electrical applications.

Typical Required and Recommended Equipment and Materials: Calculator and notebook.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 227B - National Electrical Code II

4 Credit(s)

Prerequisite(s):

Registered Apprentice.

Course Description: The second in a three-part series designed to familiarize the Electrical Apprentice with the current National Electrical Code (NEC) edition. Emphasis within this course will include box and conduit fill, voltage drops, feeders, branch circuits and service calculations for commercial and residential installations. All topics will include technical applications and NEC implications.

Course Learning Outcomes:

- CLO#1: Size wire to accommodate distance, conduit fill, box size.
- CLO#2: Determine proper box size based on calculated conductor requirements based on the current NEC codebook.

CLO#3: Discuss and explain the installation of receptacles, switches, panelboards, and the application of cords as wiring methods.

CLO#4: Determine the application of specific wiring methods defined in the NEC, their restrictions and limitations. Relate this to Article 300, wiring methods. (ILO: Critical Thinking)

CLO#5: Calculate motor loads, conductor sizing for motor branch circuit and feeders, size motor disconnecting means and adjustable speed drives.

Typical Required and Recommended Equipment and Materials: Calculator and notebook.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 227C - National Electrical Code III

4 Credit(s)

Prerequisite(s):

Registered Apprentice.

Course Description: The third in a three-part series designed to familiarize the Electrical Apprentice with the current National Electrical Code (NEC) edition. Emphasis within this course will include NEC lay-out, and grounding vs. bonding systems. All topics will include technical applications and NEC implications.

Course Learning Outcomes:

CLO#1: Calculate transformer loads and proper application of wiring techniques for transformers. (ILO: Quantitative Literacy and Reasoning)

CLO#2: Determine branch circuit and feeder sizing for heating and air conditioning loads.

CLO#3: Be able to design the construction of an above- ground fueling facility as defined in Article 500.

CLO#4: Explain the application of rules concerning hazardous locations and the classifications of explosive and flammable materials.

CLO#5: Demonstrate the application of wiring methods for swimming pools, fountains, and spas.

CLO#6: Apply rules related to wiring methods for solar powered systems and their installation requirements.

Typical Required and Recommended Equipment and Materials: Calculator and notebook.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 227D - Oregon Electrical License Prep I

4 Credit(s)

Prerequisite(s):

Registered Apprentice.

Course Description: The first of three courses in a series designed to familiarize Apprentice Electricians with advanced test taking skills and increase their knowledge of the current electrical code. Emphasis will be on reviewing current code, calculations and formulas, practical electrical application and workplace safety.

Course Learning Outcomes:

CLO#1: Locate various indexes and references from the National Electrical Code Handbook.
(ILO: Critical Thinking)

CLO#2: Explain and apply changes and updates included in the current National Electrical Code to the task.

CLO#3: Apply Arc Fault and Safety Practices involved with work practices and personal protective equipment.

CLO#4: Demonstrate safety and technical applications of Fall Protection and Safe Workplace Practices.

Typical Required and Recommended Equipment and Materials: Scientific calculator, ruler and notebook.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours, not to exceed (48) hours per term.

APR 227E - Oregon Electrical License Prep II

4 Credit(s)

Prerequisite(s):

Registered Apprentice.

Course Description: The second of three courses designed to prepare the Apprentice Electrician to pass the Oregon Electrical licensing exam. Course serves as a review of current electrical code calculations using standard and optional methods, practical electrical applications and workplace safety practices. All testing will simulate the Oregon Electrical Licensing Examination.

Course Learning Outcomes:

CLO#1: Locate various indexes and references for the National Code Handbook.

CLO#2: Calculate Ampacities of Branch Circuits, Motors, Motor Control Circuits, Branch Circuit and Feeder Taps, Box Fill and Conductor Sizing, Cooking Equipment, Dwelling Unit Service Calculations and Commercial Service. (ILO: Quantitative Literacy and Reasoning)

CLO#3: Select Code Articles used in determining proper installation of electrical systems.

Typical Required and Recommended Equipment and Materials: Scientific calculator, ruler

and notebook.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 227F - Oregon Electrical License Prep III

4 Credit(s)

Prerequisite(s):

Registered Apprentice.

Course Description: The third of three courses in a series designed to familiarize the Apprentice Electrician with advanced test taking skills and increase their knowledge of the current electrical code, with a major focus on Oregon Revised Statutes, Oregon Administrative Rules and the Oregon Addendums. The course will interpret NEC code article content, review electrical components and application characteristics, and clarify terminology including industry jargon.

Course Learning Outcomes:

CLO#1: Locate specified indexes and references from the National Electrical Code Handbook to determine proper component applications. (ILO: Information Literacy)

CLO#2: Define terminology common to the electrical industry.

CLO#3: Locate Oregon State Statutes and Administrative Rules that apply to specific electrical applications.

CLO#4: Pass the Oregon Electrical Licensing Exam.

Typical Required and Recommended Equipment and Materials: Scientific calculator, ruler and notebook.

ACTI Code and Course Type
230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

APR 229A - Aviation Airframe II

6 Credit(s)

Prerequisite(s):

Registered Apprentice with Southern Oregon Aviation JATC.

Course Description: This course covers the operation, installation, and troubleshooting of key aircraft systems including hydraulic, landing gear, fuel, environmental, and fire protection systems. It also explores avionic systems, their integration into flight operations, and troubleshooting methods for both analog and digital avionics. Students will learn airworthiness considerations, Federal Aviation Regulations (FAR) specifications, and system bundling techniques, equipping them with the skills to maintain and repair critical aircraft systems for safe

and efficient flight operations.

Course Learning Outcomes:

- CLO#1: Differentiate between analog and digital avionics systems to support effective troubleshooting practices.
- CLO#2: Justify the installation of avionics systems in relation to operational requirements and constraints. (ILO: Communication).
- CLO#3: Explain the fundamental principles of hydraulics, including pressure, flow, and force transmission, as they relate to aircraft systems.
- CLO#4: Explain how landing gear is deployed, retracted, and locked, as well as the role of hydraulic, pneumatic, and electrical systems in landing gear operation.
- CLO#5: Summarize the purpose and operation of aircraft fuel systems, including fuel storage, delivery, and control systems.
- CLO#6: Outline the operation and function of both aircraft Environmental Control Systems (including air conditioning, pressurization, and ventilation) and Fire Protection Systems (including fire detection and suppression systems).

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of sixty (60) and a standard RCC delivery of (66) lecture hours per term, not to exceed (72) hour per term.

APR 229B - Aviation Powerplant I

6 Credit(s)

Prerequisite(s):

Registered Apprentice with Southern Oregon Aviation JATC.

Course Description: This course covers essential knowledge of aircraft powerplant systems, including propellers, engine removal and replacement, fire protection systems, engine maintenance and operation, light-sport aircraft engines, and a comprehensive review of powerplant concepts. Emphasis is placed on FAA-approved procedures and standards.

Course Learning Outcomes:

- CLO#1: Describe the function of governors, pitch control mechanisms, and anti-icing systems in various propeller systems. (ILO: Communication)
- CLO#2: List the steps involved in the engine removal and installation process. (ILO: Critical Thinking)
- CLO#3: Assess the condition and airworthiness of fire protection systems using FAA standards and manufacturer specifications.
- CLO#4: Define key engine components and systems (e.g., lubrication, fuel, ignition, cooling).
- CLO#5: Compare the performance characteristics and maintenance requirements of LSA engines versus certified aircraft engines.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of sixty (60) and a standard RCC delivery of (66) lecture hours per term, not to exceed (72) hours per term.

APR 229C - Aviation Powerplant II**4 Credit(s)****Prerequisite(s):**

Registered Apprentice with the Southern Oregon Aviation Joint Apprenticeship and Training Committee (JATC).

Course Description: This course covers the fundamentals of aircraft engine systems, including fuel and metering, induction and exhaust, ignition and electrical, starting systems, and lubrication and cooling. Students will gain essential knowledge of engine operation, maintenance, and troubleshooting techniques to ensure optimal performance and compliance with regulatory standards.

Course Learning Outcomes:

- CLO#1: Identify major components and classifications of aircraft engines (reciprocating and turbine). (ILO: Critical Thinking)
- CLO#2: Describe the function of different types of fuel metering systems (e.g., carburetor, fuel injection). (ILO: Communication)
- CLO#3: Demonstrate how to perform visual inspections to check for signs of wear, damage, or blockages in induction and exhaust systems.
- CLO#4: Identify key components of engine ignition and electrical systems, such as magnetos, spark plugs, alternators, and voltage regulators.
- CLO#5: Evaluate the condition of batteries and electrical connections in the starting system, determining if replacement or further maintenance is needed.
- CLO#6: Explain how the lubrication system circulates oil to reduce friction and wear in engine components.

ACTI Code and Course Type

230 Career / Tech Apprenticeship

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

Art**ART 115 - Basic Design - Composition****3 Credit(s)**

Course Description: Provides instruction in the basic concepts, vocabulary, and practice of design, emphasizing essential elements and principles of composition. Assignments will deal with processes of creativity, ideation, aesthetic analysis, process style and meaning. Students work primarily in black and white media, addressing the foundations of both objective and non-objective modes of visual art. Skills and experiences acquired in this studio course are applicable

to fine arts, crafts and commercial design. Satisfies foundation core requirements for art and graphic design; recommended as a prerequisite for all studio courses.

Course Learning Outcomes:

- CLO#1: Acquire the ability to freely imagine a range of possible solutions to a design problem.
- CLO#2: Acquire technical competency in a variety of wet and dry mediums to use a full complement of design elements to fulfill compositional ideas, exploring those solutions in black, white, and value ranges. (ILO: Communication)
- CLO#3: Recognize, discuss, and analyze other artists' styles and design approaches using professional terminology.
- CLO#4: Express ideas in non-objective form using symmetrical, asymmetrical, radial, and biomorphic design principles.

Typical Required and Recommended Equipment and Materials: A range of basic artist's wet, dry, and collage materials to develop basic skills on a two-dimensional surface.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 116 - Basic Design - Color Theory

3 Credit(s)

Course Description: Provides instruction in the basic theories and practice of using color qualities and relationships in art, including hue, value, and saturation in essential and experimental color design, providing a foundation in the vocabulary and practice of color theory in visual art. Assignments exploring both objective and non-objective form address color mixing, spatial and volumetric effects, basic color relationships, color in image development, and the effect of color on human emotion and perception. Students will work primarily with opaque painting mediums such as gouache. Analyze composition with a focus on the use of color and its effect to meet individually determined designs in a variety of contexts. This course satisfies foundation core requirements for students pursuing fine art, design, and commercial applications.

Course Learning Outcomes:

- CLO#1: Demonstrate the ability to explore a range of color compositional methods with an awareness of the color qualities of hue, value, and saturation.
- CLO#2: Demonstrate the use of a full range of theoretical color relationships, including complements, triads, analogous, and more complex configurations, using them imaginatively in a variety of possible compositional solutions, and be able to accurately mix opaque paints. (ILO: Communication)
- CLO#3: Recognize, discuss, and analyze other artists' styles and design approaches using professional nomenclature.
- CLO#4: Design works of art fluently with non-objective form as an underlying structural component of all works of art.

Typical Required and Recommended Equipment and Materials: Water-based opaque paints, such as gouache or acrylic, in addition to many of the supplies used in ART 115 Basic Design (Composition). Other color mediums may be used.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 120 - Introduction to Digital Art

3 Credit(s)

Course Description: Provides experiential instruction in basic modalities, techniques, and software programs in digital design, and their use in contemporary art making processes. Students work in both the computer lab and a traditional studio art setting to explore significant individual concepts and exercise their ability to communicate those concepts visually. Programs such as those in the Adobe® suite and other freely available software will be used as both a platform for creative ideation and a finished visual medium. Skills acquired in this class are applicable to both fine art and more commercially based design disciplines.

Course Learning Outcomes:

- CLO#1: Demonstrate the ability to competently engage with digital mediums. (ILO: Communication)
- CLO#2: Create and explore individually formed concepts in the creation of visual art.
- CLO#3: Engage fully in critical thinking processes.
- CLO#4: Use non-objective form in digital media as part of a creative process using both objective and non-objective subjects.

Typical Required and Recommended Equipment and Materials: A variety of artist's materials, use of various software programs in the Visual Arts and Design Computer Lab.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 131 - Introduction to Drawing - Value

3 Credit(s)

Course Description: Explores basic art processes, techniques and media usage, and provides the foundation for the development of observation and visual analysis, culminating in the development of personal visual language, creative thinking, and self-expression. This course introduces basic principles, methods and media with an emphasis on value drawing. Students work extensively through direct observation of real objects, forms, and spaces, augmented by project-appropriate use of photographic source material. Through a combination of mini-lectures, demonstrations, studio work, and group discussions, the concepts of light, form, pictorial space, depth, conceptualization and composition are explored.

Course Learning Outcomes:

- CLO#1: Render a variety of objects, forms, and spaces using principles involving primarily value, including chiaroscuro, atmospheric perspective, and positive/negative space. (ILO: Communication)
- CLO#2: Demonstrate technical skill in a variety of wet and dry mediums to fulfill design concepts, producing effective and well-crafted works of art large and small scale drawings.
- CLO#3: Recognize, discuss, and analyze other artists' styles and design approaches.
- CLO#4: Create drawings in a variety of styles and modes, including both objective and non-objective modes.

Typical Required and Recommended Equipment and Materials: Graphite pencils 4B to 9B, Graphite stick 4B to 6B, Vine charcoal, Compressed charcoal 2B to 6B, Blending Stumps, Black India ink, Erasers, and White drawing paper (24" x 36" approx.)

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 132 - Introduction to Drawing - Line

3 Credit(s)

Course Description: Basic drawing principles, techniques and media usage are introduced through a combination of mini-lectures, demonstrations, studio work and group discussions. Designed to expand aesthetic awareness, this course assists students in developing a personal visual language by presenting skills to communicate in today's art world. The concepts of line, form, spatial depth and composition are explored with an emphasis on line drawing.

Course Learning Outcomes:

- CLO#1: Render a variety of objects, forms, and spaces using principles involving primarily line, including contour, cross-hatching, gesture, and vanishing-point perspective in a variety of compositional strategies. (ILO: Communication)
- CLO#2: Demonstrate technical skill in a variety of dry and possibly wet mediums to fulfill design concepts, producing effective and well-crafted works of art large and small scale drawings.
- CLO#3: Recognize, discuss, and analyze other artists' styles and approaches to drawing.
- CLO#4: Create pictorial space on a two-dimensional surface using a variety of sources, including/but not limited to still life, photographs, the live model, imagination, abstraction and works of other artists.

Typical Required and Recommended Equipment and Materials: Graphite pencils 4B to 9B, Graphite stick 4B to 9B, Compressed charcoal, Pastels, Black India ink, Erasers, and White drawing paper (24" x 36" approx.)

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 133 - Intro to Drawing - Mixed Media

3 Credit(s)

Course Description: Stimulates creative experimentation with drawing processes through the use of a variety of wet and dry media, collage, transfer and others. This course provides a framework for the development of self-expression and creative thinking skills needed to communicate in today's art world. Introduces the experience of working in a multi-media drawing format through a combination of lectures, studio work and group discussions.

Course Learning Outcomes:

- CLO#1: Use a variety of materials and techniques, demonstrating mixed-media approach to developing personal imagery and symbols in the context of historical and contemporary art. (ILO: Communication)
- CLO#2: Address basic compositional problems dealing with spatial depth, negative/positive space, and the design of the picture plane.
- CLO#3: Analyze and critique one's own work and the work of other students.

Typical Required and Recommended Equipment and Materials: Graphite pencils 4B to 9B, Graphite stick 4B to 6B, Compressed charcoal 2B to 6B, Pastels, Erasers, Water-based paints, Black India ink, Collage materials, and White drawing paper (24" x 36" approx.)

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 197 - Gallery Design and Management

Var. (1-3) Credit(s)

Prerequisite(s): WR 122Z, at least 3 credits in a studio art class, and at least one of the three classes in the History of Art sequence (ART 204, ART 205, or ART 206)

Course Description: Explores the inner workings of a gallery from the perspectives of artist and gallery director. Training includes installation of exhibits, communication with artists, recordkeeping, shipping, and all phases of gallery clerical work and promotion. Discussion focuses on exhibition design and installation as well as contemporary and historical perspectives and critiques.

Course Learning Outcomes:

- CLO#1: Experience the installation and preparation of artwork and operation of a gallery including receiving work, installing, lighting, and shipping of artwork. (ILO: Communication)
- CLO#2: Participate in preparation work for exhibits including promotion, artist contact, contracts and other paperwork, and assess needs for the exhibit.
- CLO#3: Research historical and contemporary theories of galleries and museums and the role they play in the arts.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

ART 198 - Independent Study - Art Portfolio**Var. (1-3) Credit(s)****Prerequisite(s):**

WR 122Z, at least 15 credits of studio art classes, and at least one of the classes in the History of Art sequence (ART 204, ART 205 or ART 206).

Course Description: Develops the knowledge, requirements, and materials needed for creating professional portfolios of creative work for exhibition proposals and admission into art schools. Recommended for art majors. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Produce writing for the profession, including resumes, artist statements, and other forms of exhibition text. (ILO: Communication)
- CLO#2: Research and reflect on personal artistic work.
- CLO#3: Develop presentation materials, including photographing artwork, framing and matting and the understanding and creation of a body of work.

Typical Required and Recommended Equipment and Materials: Use of 35 mm single lens reflex camera (digital format preferred), tripod, and use of computer with desktop publishing capabilities suggested.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours term, not to exceed (24) hours per term.

ART 199 - Special Studies - Art**Var. (1-3) Credit(s)****Corequisite(s):**

WR 115

WR 115Q as required

Course Description: An introduction and overview of specific topic areas of interest, including media, history, and practice. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate skills in the basics of a given area of artistic study.
- CLO#2: Demonstrate technical skills to achieve creative ends. (ILO: Communication)
- CLO#3: Locate and identify the skill area in an historical and cultural context.

Typical Required and Recommended Equipment and Materials: Dependent upon content area.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

ART 204 - Prehistoric to Gothic Art

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: This course is designed for both art and non-art majors. The intent of this study is to gain skills in appreciating, understanding, and evaluating the beauty and meaning in art and life in the context of culture, and evolving needs and belief systems. For art majors, a necessary foundation is laid for advanced study in studio art and art history. Students study the history of art in the context of the cultures producing them, by studying selected works of painting, sculpture, architecture, and other fine arts, from prehistoric to Gothic periods. Students study the development of art in the Western tradition with reference to major periods and styles of art from the non-Western world, including art from Asia, Africa, the Americas, and the Pacific Islands. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

- CLO#1: Identify major historical periods of art from Prehistory to the European Gothic, including key aesthetics, artists, and stylistic trends.
- CLO#2: Identify significant cultural inequalities and visual symbolic language of art in a given time period. (ILO: Communication)
- CLO#3: Identify art processes and techniques used to express ideas, emotions, and cultural values in two- and three-dimensional forms.
- CLO#4: Analyze historical and cultural issues across a diverse selection art works.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ART 205 - Renaissance to Baroque Art

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: The intent of this study is to gain skills in appreciating, understanding, and evaluating the beauty and meaning in art and life in the context of culture, and evolving needs and belief systems. For art majors, a necessary foundation is laid for advanced study in studio art and art history. Students study the history of art in the context of the cultures producing them, by studying selected works of painting, sculpture, architecture, and other fine arts, from Renaissance to Baroque periods. Students study the development of art in the Western tradition with reference to major periods and styles of art from the non-Western world, including art from Asia, Africa, the Americas, and the Pacific Islands. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

CLO#1: Identify major artistic periods and stylistic trends from the European Renaissance to Baroque, as well as early India, Southeast Asia, China, Korea, Japan, the Americas, and Early Africa.

CLO#2: Identify significant cultural needs and beliefs that affect the qualities and visual symbolic language of art in a given time period. (ILO: Communication)

CLO#3: Identify various art processes and techniques used by artists to express ideas, emotions, cultural values and activities, through two- and three-dimensional art forms.

CLO#4: Analyze historical and cultural issues in a wide variety of works of art.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ART 206 - 18th Century to Contemporary Art

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: The intent of this study is to gain skills in appreciating, understanding, and evaluating the beauty and meaning in art and life in the context of culture, and evolving needs and belief systems. For art majors, a necessary foundation is laid for advanced study in studio art and art history. Students study the history of art in the context of the cultures producing them, by studying selected works of painting, sculpture, architecture, and other fine arts, from the 18th century to contemporary times. Students study the development of art in the Western tradition with reference to major periods and styles of art from the non-Western world, including art from Asia, Africa, the Americas, and the Pacific Islands. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

CLO#1: Explore the major historical periods of art, focusing on aesthetic, artistic, and stylistic trends from the European Rococo to the contemporary era in Europe and the United States, as well as in India, Southeast Asia, China, Korea, Japan, the Americas, Africa, and the Pacific.

CLO#2: Identify significant cultural needs and beliefs that affect the qualities and visual symbolic language of art in a given time period. (ILO: Communication)

CLO#3: Recognize various art processes and techniques used by artists to express ideas, emotions, cultural values and activities, through two- and three-dimensional art forms.

CLO#4: Analyze historical and cultural issues in a wide variety of works of art.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ART 222 - Graphic Design - Typography

3 Credit(s)

Course Description: Acquaints students with the basic concepts needed for entry-level graphics positions. Increases understanding of letterforms, font usage, and changes from media to media, and the effects on viewers. Includes concept design from thumbnail to finished product, skill development as applied to logo, trademarks and business packages, and covers current standards of design.

Course Learning Outcomes:

CLO#1: Design lettering for logos, trademarks and corporate identities.

CLO#2: Demonstrate the skills and identify appropriate technology to use different media in achieving various outcomes. (ILO: Communication)

CLO#3: Demonstrate a usable vocabulary to analyze and communicate good layout and design for each assignment.

Typical Required and Recommended Equipment and Materials: Pencils, pens, markers, erasers, X-Acto knives, tape, rulers, straight edges, 30-60° and 45° angles. Illustration boards.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 234 - Figure Drawing I

3 Credit(s)

Course Description: Introduces techniques and process in drawing the figure from life. This course provides a framework for the development of self-expression for beginning students, and presents advanced students with problem-solving experiences appropriate to issues in contemporary art. Students draw almost exclusively from live models, both nude and draped, using a range of materials and formats. Through direct observation, anatomical study, historical

information and media experimentation, students develop their drawing skills and increase their ability to utilize the figurative form in creative works in an historical and contemporary context.

Course Learning Outcomes:

- CLO#1: Accurately describe the proportions of the human figure.
- CLO#2: Utilize a variety of drawing methods successfully, (gestural, structural, and volumetric) in a variety of mediums, to describe the figure in a variety of pose type and duration. (ILO: Communication)
- CLO#3: Recognize, discuss, and analyze the use of the human form in contemporary and historical visual art.
- CLO#4: Render the figurative image as a design component, exploring compositional and conceptual possibilities beyond simple transcription and realistic presentation.

Typical Required and Recommended Equipment and Materials: Graphite pencils 4B to 9B; Vine Charcoal, Compressed charcoal 2B to 6B; Chalk Pastels; Erasers; Collage materials and White drawing paper (24" x 36" in approx.).

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 235 - Figure Drawing II

3 Credit(s)

Prerequisite(s):

ART 234

Course Description: Expands upon foundational techniques and processes in drawing the figure from life. This course provides a framework for the continuing development of self-expression and personal artistic style for advanced students in the use of the human figure in contemporary art. Students draw almost exclusively from live models, both nude and draped, using a range of materials and formats. Through direct observation, anatomical study, historical context, and media experimentation, students continue the development of their technical and conceptual skills in figurative modes.

Course Learning Outcomes:

- CLO#1: Accurately describe the proportions and complex anatomy of the figure.
- CLO#2: Utilize various drawing methods successfully in an individual manner, in a variety of mediums, describing the figure in a variety of pose type and duration. (ILO: Communication)
- CLO#3: Recognize, discuss, and analyze the use of the human form in contemporary and historical visual art based on personal interest.
- CLO#4: Demonstrate the use of the figurative image as a design component, exploring compositional and conceptual possibilities beyond simple transcription and realistic presentation.

Typical Required and Recommended Equipment and Materials: Graphite pencils 4B to 9B; Vine Charcoal, Compressed charcoal 2B to 6B; Chalk Pastels; Erasers; Collage materials and

white drawing paper (24" x 36" in approx.).

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 236 - Figure Drawing III

3 Credit(s)

Prerequisite(s):

ART 235

Course Description: Challenges experienced students in the development of personal techniques and processes in drawing the figure from life. Students draw almost exclusively from live models, both nude and draped, using a range of materials and formats, developing individual approaches to the creation of finished works of art, emphasizing increased sophistication of anatomy, composition, and conceptualization. Students develop their ability to work in a self-identified series format through direct observation, anatomical study, historical context and media experimentation creating a personal body of figurative work.

Course Learning Outcomes:

CLO#1: Identify and explore personal challenges in proportion and stylization.

CLO#2: Analyze and explore personal media usage. (ILO: Communication)

CLO#3: Recognize, discuss, and analyze the use of the human form in contemporary and historical visual art.

CLO#4: Use the figurative image as a design component, exploring compositional and conceptual possibilities beyond simple transcription and realistic presentation.

Typical Required and Recommended Equipment and Materials: Graphite pencils 4B to 9B; Vine Charcoal, Compressed charcoal 2B to 6B; Chalk Pastels; Erasers; Collage materials and White drawing paper (24" x 36" in approx.).

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 237 - Illustration Black and White Media

3 Credit(s)

Course Description: Introduces traditional (non-computerized) illustration techniques, concepts and practices, allowing students to develop an understanding of how to create an illustration both physically as well as conceptually. The course focuses on black and white media and is designed to increase basic art skills, provide the tools and knowledge for students to successfully complete assigned projects, and develop an understanding of commercial illustration applications.

Course Learning Outcomes:

- CLO#1: Render forms and spaces with sufficient understanding and precision for the rendering of objects, surfaces, and spaces.
- CLO#2: Utilize a variety of common two-dimensional, black and white media to fulfill varied illustration outcomes. (ILO: Communication)
- CLO#3: Quickly create sketches which explore a variety of options in concept and design for illustration outcomes.

Typical Required and Recommended Equipment and Materials: Drawing pencils and erasers, Bristol - 2 ply sheets, Tracing paper, Pens, brushes, and ink, Scratchboard and related tools

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 238 - Illustration - Color Media

3 Credit(s)

Course Description: Introduces traditional (non-digital) illustration techniques, concepts and practices, allowing students to develop an understanding of how to create an illustration both physically as well as conceptually. The course focuses on color and color media and is designed to increase basic art skills, provide the tools and knowledge for students to successfully complete assigned projects, and develop an understanding of commercial illustration applications.

Course Learning Outcomes:

- CLO#1: Render objects, surfaces, and spaces in color media.
- CLO#2: Complete illustrations with defined parameters in a variety of color media. (ILO: Communication)
- CLO#3: Execute sketches which explore possible illustration goals quickly and accurately.

Typical Required and Recommended Equipment and Materials: 12 color Prismacolor pencil set, Kneaded eraser, white plastic eraser, #12 round and $\frac{3}{4}$ " flat watercolor brushes, 12 color pastel set, Pastel papers, 2-ply Bristol paper, 9" x 12" watercolor pad, Workable Fixative spray

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 239 - Illustration - Perspective

3 Credit(s)

Course Description: A hands-on course designed to develop knowledge and understanding of measured linear perspective drawing. Increases skills and understanding of the principles of one-point, two-point, and three-point rendering in art. Further work on additional skill development as needed for student progress will be included. The knowledge gained is applicable to both commercial and fine art purposes.

Course Learning Outcomes:

- CLO#1: Demonstrate skill in using essential concepts of linear perspective drawing, including the layout of horizon line, station point, and vanishing points in one-, two-, three-, and oblique-point renderings. (ILO: Communication)
- CLO#2: Apply knowledge of one- and two-point perspective methods illustrating architectural motifs in exterior and interior views through the delineation of, ground plan and perspective elevation views.
- CLO#3: Design individual concepts of each project by rough drafts, comps and finals to create and use their imagination to accurately, visually communicate and describe their designs on a split-level home with landscaping.

Typical Required and Recommended Equipment and Materials: Pencils 6B, Kneadable eraser, Pink pearl eraser, Stumps, Tortillions, Pens and inks, Drawing tablet 18 x 24 (newsprint), Conte' crayons

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) /lab hours per term, not to exceed (72) hours per term.

ART 240 - Advanced Figure Drawing

3 Credit(s)

Prerequisite(s):

ART 236

Course Description: Students create drawings exploring figurative working primarily from live models using an individually selected range of materials and formats. Through direct observation, anatomical study, historical research, creative ideation, and media experimentation, students develop their drawing skills and increase their knowledge of the human figure in art. In a studio environment, traditional and contemporary drawing techniques are applied to the interpretation of the nude and draped figure. This course provides a framework for the development of self-expression for advanced students, encouraging them to develop a personal style, theory, and approach to the figurative image in a contemporary context.

Course Learning Outcomes:

- CLO#1: Demonstrate fluency in the expressive use of proportion and structure. Using primarily from the model as well as imagination, and other source material in a self-directed manner. (ILO: Communication)
- CLO#2: Critically analyze and evaluate their own work and the work of others.
- CLO#3: Conceptualize and execute drawings demonstrating a personal and imaginative use of the figurative image.

Typical Required and Recommended Equipment and Materials: Graphite pencils 4B to 9B; Graphite stick 4B to 6B; Compressed charcoal 2B to 6B; Pastels; Erasers; Water-based paints; Black India ink; Collage materials and White drawing paper (24" x 36" in approx.).

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 245 - Drawing for Graphic Design

3 Credit(s)

Prerequisite(s):

ART 237 or ART 238

Course Description: Emphasizes conceptualization process through drawing, including the development of thumbnails, brainstorming, research, layout, overlays, and typography, including strategies used in the creation of a graphic design presentation. Students will explore the use of drawing as a tool for visual problem solving, idea generation, visual diagramming and storyboarding, as well as a design/illustration medium for final production work. Projects explore visual languages, storytelling, storyboards and the visual essay. Course is repeatable.

Course Learning Outcomes:

CLO#1: Utilize media appropriate to a variety of design challenges.

CLO#2: Evolve research sketches delineating and exploring design ideas.

CLO#3: Evolve concepts of each project through the steps of completing thumbnail sketches, rough drafts and comps to the final designs. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Graphite pencils, Erasers, Tortillons, Sketch pad, Drawing Vellum, Conte Crayon, Colored Pencils

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 253 - Ceramics I

3 Credit(s)

Course Description: Introduces students to the history, technology, design and art of pottery, relating traditional and contemporary methods in contemporary art practice. This course will channel students towards creative thinking, self-expression and self-evaluation. Introduces materials, tools, and techniques in producing ceramic pottery and sculptural forms including hand-building, wheel throwing, glaze application, firing, and other finishes for clay.

Course Learning Outcomes:

CLO#1: Execute a significant variety of hand-building and wheel-throwing techniques. (ILO: Communication)

CLO#2: Demonstrate hands-on ability in basic firing technology, including safe and effective glaze formulation and handling.

CLO#3: Identify and use a variety of aesthetic, symbolic, and decorative language qualities that constitute wholeness or integrity of visual form.

Typical Required and Recommended Equipment and Materials: Twenty-five plus pounds of clay, Clean up sponge, Needle tool, Fettling knife, Fork or other scratching tool, Cut off wire, Found objects for texture and forming (rocks, shells, lace, etc.)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 254 - Ceramics II

3 Credit(s)

Prerequisite(s):

ART 253

Course Description: Continues ART 253, and further explores the history, technology, design, and art of pottery. Reinforces expectations for students to achieve their goals, and to understand the continuing change of contemporary ceramic art techniques. Introduces materials, tools, and techniques in producing ceramic pottery and sculptural forms, and includes hand building, wheel throwing, glaze formulation and application, firing, and other finishes for clay.

Course Learning Outcomes:

CLO#1: Utilize basic glazes and chemistry, as well as a working knowledge of kiln loading and firing. Be able to analyze and communicate this to others.

CLO#2: Build ceramic works of art exemplifying advanced understanding of clay building techniques.

CLO#3: Locate and discuss personal ceramic work in relation to contemporary ceramics practice and symbolic language in the art world. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Large towel, Small plastic bucket, Large natural sponge, Needle tool, Trimming tool, Rib Cut off wire, Note book, Large paint scraper, Some brush

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 255 - Ceramics III

3 Credit(s)

Prerequisite(s):

ART 254

Course Description: Continues ART 254 and further explores the history, science, design, and art of pottery. Reinforces the expectations of students to achieve their goals and to understand the continuing change of contemporary ceramic art. Introduces students to advanced materials, tools, and techniques in producing ceramic pottery and sculptural forms. Includes hand-building, wheel throwing, glaze formulation and application, firing, and other finishes for clay.

Course Learning Outcomes:

CLO#1: Create advanced ceramic works of art that demonstrate mastery of wheel and hand-building and alternative methods.

CLO#2: Demonstrate greater sophistication of technical skills, including formulating personal glaze and fire a gas reduction kiln.

CLO#3: Create and literately discuss a series of original ceramic art. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Large towel, Small plastic bucket, Large natural sponge, Needle tool, Assorted trimming tools, Assorted ribs, Cut off wire, Notebook, Glaze notebook, Large paint scraper, Sumi-e brush

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 256 - Ceramics IV

3 Credit(s)

Recommended Prerequisite(s):

ART 255

Course Description: Emphasizes study of contemporary ceramic disciplines to fulfill educational goals specific to each student. The course is set up as an open studio with individualized critiques and assigned research activities. Each student works on developing personal imagery, style, and art philosophy while learning to make the transition from art student to working artist.

Course is repeatable.

Course Learning Outcomes:

CLO#1: Conceptualize and execute an advanced personalized plan of study and approach to working. Identify a personal perspective regarding style, techniques, color, theory, and imagery. (ILO: Communication)

CLO#2: Create personal finish styles including glazes.

CLO#3: Create ceramic works demonstrating a mastery of hand building and/or alternative methods.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 257 - Jewelry and Metalsmithing I

3 Credit(s)

Course Description: Explores basic metalsmithing processes, including piercing, riveting, lost wax casting and silver soldering and provides a foundation for the development of creative thinking and self-expression. Course is designed for students with limited or no previous jewelry/metalsmithing experience. Introduces tools and techniques used in working with nonferrous metals through a combination of demonstrations, studio work and group discussions. Furthers design awareness and explores three-dimensional form as functional or wearable art.

Course Learning Outcomes:

- CLO#1: Consistently follow rules and regulations regarding safety while using all jewelry and metalsmithing equipment and materials, including but not limited to torches, soldering tools, saws, files, flexible shaft, hammers, drill press, rolling mill, polishing machines and chemicals.
- CLO#2: Incorporate demonstrated techniques into personal skill sets, leading to opportunities for experimentation. (ILO: Communication)
- CLO#3: Demonstrate the development of original and esthetically compelling ideas.
- CLO#4: Relate two dimensional drawings into three dimensional form, employing the demonstrated techniques.
- CLO#5: Relate personal work to artistic practice and theory of contemporary artists working in jewelry and metalsmithing.

Typical Required and Recommended Equipment and Materials: Metal: Copper, Brass and Nickel Sheet, Copper wire and Sterling Silver, solder and Casting grain. Hand Tools: Jeweler's saw, blades, bench pin, needle files, large flat file and emery paper. Safety: Goggles and mask.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 258 - Jewelry and Metalsmithing II

3 Credit(s)

Prerequisite(s):

ART 257

Course Description: Continues developing technical vocabulary through content that varies by term including the exploration of a variety of surface embellishments, metal forming methods, mold making, stone setting and 3D printing. Explores historical and contemporary artists and continues development of design and aesthetic awareness of three-dimensional small scale works of art with the goal of creating a personal visual language.

Course Learning Outcomes:

- CLO#1: Consistently follow rules and regulations regarding safety while using all jewelry and metalsmithing equipment and materials, including but not limited to torches, soldering

tools, saws, files, flexible shaft, hammers, drill press, rolling mill, polishing machines and chemicals.

CLO#2: Demonstrate a working knowledge of new techniques covered while showing refinement of previously experienced methods, and principles behind each technique, leading to opportunities for experimentation. (ILO: Communication)

CLO#3: Develop original and esthetically compelling ideas while demonstrating a clear understanding of the qualities specific to small scale work.

CLO#4: Demonstrate the ability to take a creative idea from a concept in the imagination into a three-dimensional form, using the techniques demonstrated.

CLO#5: Research metalwork produced in other cultures and other periods in history and evaluate metalwork as a means of creative expression.

Typical Required and Recommended Equipment and Materials: Metal: copper, brass and nickel sheet, copper pipe, copper wire and sterling silver solder. Hand tools: jeweler's saw, blades, bench pin, needle files, large flat file and emery paper. Safety: goggles and mask.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 259 - Jewelry and Metalsmithing III

3 Credit(s)

Prerequisite(s):

ART 258

Course Description: Along with further technical development and awareness of the versatility of metalwork, students explore concepts and issues of self-expression and personal imagery related to wearable art, small functional objects and small sculpture. Content varies by term and includes etching, enameling, die forming, chasing and repousse, mold making, 3D printing and stone setting.

Course Learning Outcomes:

CLO#1: Follow and assist others with rules and regulations regarding safety while using all jewelry and metalsmithing equipment and materials, including but not limited to torches, soldering tools, saws, files, flexible shaft, hammers, drill press, rolling mill, polishing machines and chemicals.

CLO#2: Demonstrate a working knowledge of new techniques covered while showing refinement of previously experienced methods, experimentation, and application of the principles behind each technique. (ILO: Communication)

CLO#3: Explore a variety of ideas through studies and sketches, emphasizing the development of a personal style.

CLO#4: Conceptualize and create three-dimensional art through a complete process of imagination and production emulating demonstrated techniques.

CLO#5: Present personal art work in metals in context of work produced in other cultures and other periods in history, demonstrating the broad potential of metalwork as a means of creative expression.

Typical Required and Recommended Equipment and Materials: Metal: copper, brass and nickel sheet, copper pipe, copper wire and sterling silver solder. Hand tools: jeweler's saw, blades, bench pin, needle files, large flat file and emery paper. Safety: goggles and mask.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 260 - Jewelry and Metalsmithing IV

3 Credit(s)

Prerequisite(s):

ART 259

Course Description: Gives students an opportunity to take responsibility of their continued growth in jewelry and metalsmithing. They choose the tools and techniques to explore in depth during the term, and they design their own assignments and choose projects (in keeping with the previous classes) that they will explore through a combination of demonstrations, studio work, and group discussions. A series of pieces will be created to exhibit/sell in the fall/Christmas sale, winter/Valentine's Day sale, or the spring/student exhibit. The course continues to prepare students to create jewelry/metal objects to exhibit/sell by furthering their design awareness; develop step-by-step metals techniques and craftsmanship skills, and explore three-dimensional form as functional or wearable art.

Course Learning Outcomes:

CLO#1: Consistently adhere to rules and regulations regarding safety while using all common techniques and equipment of professional jewelry and metalsmithing.

CLO#2: Conceptualize and execute creative ideas from an ideation to finished three-dimensional form. (ILO: Communication)

CLO#3: Envision and outline self-established goals and objectives in the continuing exploration of jewelry and metalsmithing techniques.

Typical Required and Recommended Equipment and Materials: Metal: Copper, Brass and Nickel Sheet, Copper Pipe, Copper wire and Sterling Silver solder Hand Tools: Jewelers saw, blades, bench pin, needle files, large flat file and emery paper. Safety: Goggles and mask.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 276 - Sculpture I

3 Credit(s)

Course Description: Encourages students to develop critical as well as creative thinking through the exploration of materials, processes, concepts and imagery in three-dimensional art forms.

Students will explore a range of sculptural materials and techniques, including an introduction to ZBrush digital modeling software and three-dimensional printing.

Course Learning Outcomes:

- CLO#1: Create three-dimensional sculptural works of art through a variety sculptural and finish processes. Utilize the appropriate tool and technique associated with the process, including additive, subtractive, and constructive methods in traditional digital means.
(ILO: Communication)
- CLO#2: Freely envision sculptural ideas through a sketch process. Using a developmental process, employing sketches, maquettes, and finished work, and using research of master artists to help envision possibilities for sculpture through a range of media.
- CLO#3: Envision and execute unique and expressive works of art in three-dimensional Engage in a rich creative ideation process involving personal investigation of processes, ideas, and materials, from initial sketch to class critique.
- CLO#4: Create sculpture in both objective and non-objective modes.

Typical Required and Recommended Equipment and Materials: Sculpture clay, Clay tools, Sculpture wire, 3D printing filament, Wood, Plaster, Other suitable sculpture materials, Stains, Paints, finishes

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 277 - Sculpture II

3 Credit(s)

Prerequisite(s):

ART 276

Course Description: Continues study of sculptural materials, techniques, and concepts. Project exercises provide experience in modeling, casting, carving and fabrication processes with a special emphasis on self-expression and concepts. Assignments establish a conceptual format within which to explore creative ideas - the course emphasizes hands-on working experience in a variety of media. Projects are short-term in duration with work in greater complexity, size, and more demanding materials reserved for more advanced coursework. The emphasis is on accomplishment of a diversified experience. Lectures and films provide historical and technical information and students are expected to do outside research.

Course Learning Outcomes:

- CLO#1: Undertake greater complexity of sculptural technique in a variety of materials. (ILO: Communication)
- CLO#2: Develop personal concepts through individual forms of three-dimensional visual expression.
- CLO#3: Communicate the purpose and goals of specific sculptural projects.

Typical Required and Recommended Equipment and Materials: A variety of materials and techniques will be used.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 278 - Sculpture III

3 Credit(s)

Prerequisite(s):

ART 277

Course Description: Encourages students to develop critical as well as creative thinking through the exploration of materials, processes, concepts, and imagery. Exposure to a wide range of ideas enables students to develop their own sense of direction. Emphasis is on the exploration and manipulation of form and space in a variety of materials to investigate sculptural expression.

Course Learning Outcomes:

CLO#1: Discover unique expressive characteristics of processes and materials, and the underlying relationships between them.

CLO#2: Explore ideas for individual expression through research of other artists' work and through preparatory studies. (ILO: Communication)

CLO#3: Create and discuss an integrated approach to unique personal sculptural work.

Typical Required and Recommended Equipment and Materials: Various materials will be used.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 280 - CWE - Art

Var. (1-12) Credit(s)

Prerequisite(s):

Prior arrangement with CWE instructor or Department Chair.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their programs. Together, the Instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Course is repeatable.

Course Learning Outcomes:

CLO#1: Demonstrate a professional presence as described in the CWE Work Ethic and Professional Presence Guidelines while on the job.

CLO#2: Apply program knowledge, theories, principles, methods and technology. Gain new knowledge, skills, and experience while fulfilling employer goals. (ILO: Communication)

CLO#3: Make contacts which will help in obtaining employment.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

ART 281 - Painting I

3 Credit(s)

Course Description: Encourages students to develop critical as well as creative thinking through the exploration of materials, processes, concepts, and imagery. Through exposure to a wide range of ideas, students are enabled to develop an individual sense of direction. This course introduces opaque painting techniques using acrylic paints.

Course Learning Outcomes:

CLO#1: Utilize fundamental knowledge of color mixing and various color schemes/relationships with acrylic paint with a variety of application techniques. (ILO: Communication)

CLO#2: Imagine creative solutions to subject matter, non-objective concepts, design, and expression within specific project.

CLO#3: Successfully explore individual solutions to problem-solving opportunities.

Typical Required and Recommended Equipment and Materials: Acrylic paint in a variety of primary, secondary, and neutral colors; stiff bristle brushes, soft bristle brushes, palette knives; palette. Painting surfaces: Substrates including, but not limited to canvas board, stretched canvas, and a paper variety.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 282 - Painting II

3 Credit(s)

Prerequisite(s):

ART 281

Course Description: Continues concepts and techniques introduced in ART 281. Explores a variety of techniques and concepts of various stylistic developments in painting. By focusing on conceptual differences and connections between stylistic periods, students are able to explore techniques developing a broad foundation of ideas and skills as well as facilitating the pursuit of

individuality and creative thinking.

Course Learning Outcomes:

CLO#1: Utilize and explore a variety of historical styles of painting. (ILO: Communication)

CLO#2: Explore possibilities of personal style and visual language.

CLO#3: Relate personal artistic work to art theory, history, and practice.

Typical Required and Recommended Equipment and Materials: Acrylic paints, drawing supplies, sketchbook, palette, palette knife, brushes, stretched canvas, painting panels, and other supplies as needed.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 283 - Painting III

3 Credit(s)

Prerequisite(s):

ART 282

Course Description: Continues the methods of instruction introduced in ART 281 and ART 282, with emphasis on techniques and concepts of realism, consideration of value structure, sophistication of color scheme, and illusion of imagery.

Course Learning Outcomes:

CLO#1: Develop unique, personal work through creative use of advanced techniques.

CLO#2: Create and execute creative and sophisticated compositional strategies.

CLO#3: Identify and execute works of art in a distinct personal style. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Opaque paints, such as acrylic, oil, alkyd, or gouache, Substrates such as panel, stretched canvas, or other, Brushes, Palette knives, Drawing supplies

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 284 - Painting IV

3 Credit(s)

Prerequisite(s):

ART 283

Course Description: Encourages students in developing critical as well as creative thinking through the exploration of materials, processes, concepts, and imagery; through exposure to a wide range of ideas, students develop their own sense of direction. Introduces advanced principles, methods and processes of painting through mini lectures, research, studio work and critique. Concepts based on contemporary ideas and images relating to painting are explored. Credits taken may be applied to the Oregon Transfer Degree, the Associate of General Studies degree, toward fulfilling the humanities requirement or elective requirement, or may be taken to pursue a personal educational track, whether towards a career in art, or for aesthetic and psychological enrichment.

Course Learning Outcomes:

- CLO#1: Apply advanced concepts and techniques, including color technique, representational accuracy and imagination in a series of paintings. (ILO: Communication)
- CLO#2: Develop sophisticated compositional strategies.
- CLO#3: Realize personal artistic style in a body of work through a process of conceptualization, research, and sketches.

Typical Required and Recommended Equipment and Materials: Opaque paints, such as acrylic, oil, alkyd, or gouache. Substrates such as panel, stretched canvas, or other. Brushes, Palette knives

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 287 - Aqueous Media - Airbrush I

3 Credit(s)

Course Description: Introduces airbrush painting as applied to the commercial art field of illustration. The operation and care of airbrush equipment are covered, and students gain hands-on experience working in a variety of exercises to give them a basic knowledge of airbrush techniques. Students will learn about the use of airbrush in commercial art and the different techniques that develop artwork used in advertising and fine art.

Course Learning Outcomes:

- CLO#1: Demonstrate the essential knowledge of airbrush painting, basic materials, and concepts.
- CLO#2: Create finished illustrations with airbrush. (ILO: Communication)
- CLO#3: Evolve and communicate design concepts for each project through the execution of rough drafts, comps and finals, for the purpose of presentation to clients.

Typical Required and Recommended Equipment and Materials: Paint, X-Acto knife, Frisket, Airbrush mask

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 288 - Aqueous Media - Airbrush II

3 Credit(s)

Prerequisite(s):

ART 287

Course Description: Continues techniques and methods used in ART 287 and develops more talent and interest in illustration by using the airbrush. Textures, patterns and color, with the added use of lettering, are used to develop camera-ready art work in four different projects. Continues work with students in developing portfolios that can be shown at any job interview.

Course Learning Outcomes:

- CLO#1: Work fluently in advanced techniques in airbrush to fulfill design objectives.
- CLO#2: Combine the application of tools and techniques of airbrush with various design processes and other media. (ILO: Communication)
- CLO#3: Evolve design concepts through a process of rough drafts, comps and finals, and communicate these concepts to clients.

Typical Required and Recommended Equipment and Materials: Acrylic Airbrush paint, Frisket, X-Acto knife, Airbrush mask

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 294 - Watercolor I

3 Credit(s)

Course Description: Introduces basic transparent watercolor and basic painting processes and techniques. Students expand their awareness of historical and contemporary practice in water-based media and explore a full range of essential techniques using both stretched and unstretched paper surfaces. A combination of mini-lectures, demonstrations, studio work and group discussions emphasize the characteristics of the materials, color theory, creative thinking, self-expression, and a variety of painting styles and imagery.

Course Learning Outcomes:

- CLO#1: Demonstrate fluency in a wide-range basic watercolor painting techniques, including but not limited to, graded washes, wet-into wet, resist, hard-edged wash, warm and cool color layering on both stretched and unstretched paper surfaces. (ILO: Communication)
- CLO#2: Engage formal issues of color theory, composition, and spatial construction in the context of watercolor painting.
- CLO#3: Critically analyze and evaluate own work and the work of others.

Typical Required and Recommended Equipment and Materials: Tubes of transparent watercolors, One inch flat sable brush, #12 round sable brush, #8 round sable brush, #4 round sable brush, Student grade cold press paper (18" x 24")

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 295 - Watercolor II

3 Credit(s)

Prerequisite(s):

ART 294

Course Description: Continues the exploration of basic transparent watercolor techniques along with the introduction of more experimental approaches to expand aesthetic awareness and develop a personal visual language in an historical and contemporary context. Students are required to demonstrate mastery of basic painting processes and techniques that make the development of creative thinking and self-expression possible. This course is a combination of lectures, demonstrations, studio work and group discussions that emphasize the characteristics of the materials, color theory, conceptualization, and a variety of painting styles and imagery.

Course Learning Outcomes:

CLO#1: Expand mastery in the usage of primarily translucent watercolor technique, begin to develop personal approaches to the medium. (ILO: Communication)

CLO#2: Demonstrate awareness of design and spatial issues in increasingly self-directed choices of subject matter.

CLO#3: Critically analyze and evaluate own work and the work of others.

Typical Required and Recommended Equipment and Materials: Tubes of transparent watercolors, One inch flat synthetic brush, #12 round synthetic brush, Student grade cold press paper (18" x 24")

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 296 - Watercolor III

3 Credit(s)

Prerequisite(s):

ART 295

Course Description: Students work in a semi-independent format, allowing them to develop a creative thinking and self-expression approach to painting style and imagery to expand aesthetic awareness and develop a personal visual language in an historical and contemporary context. Course assignments explore the practice of series development, media experimentation and mastering techniques, including the use of alternate painting surfaces such as Yupo and watercolor board. The emphasis is on individual development of imagery and style. A

combination of mini-lectures, demonstrations, studio work and group discussions focus on the materials, theory, and philosophies of watercolor painting.

Course Learning Outcomes:

CLO#1: Conceptualize and execute paintings in a series, with a personal approach to style, technique, color, theory, and imagery. (ILO: Communication)

CLO#2: Create paintings independently.

CLO#3: Communicate ideas using written and graphic concepts introduced in lectures, projects and group discussions.

Typical Required and Recommended Equipment and Materials: Tubes of transparent watercolors: colors determined by each student. Watercolors brushes selected by each student. Student grade cold press paper (18" x 24"), Arches cold press paper, Yupo paper

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 297 - Watercolor IV

3 Credit(s)

Prerequisite(s):

ART 296

Course Description: Emphasizes study in a variety of water-based medium and approaches to fulfill educational goals specific to each student. It is set up as an open studio with individualized critiques and assigned research activities. Each student works on developing personal imagery, style, and art theory in a contemporary context. Students conceptualize and execute unique personal watercolor paintings based on individual research and interests.

Course Learning Outcomes:

CLO#1: Conceptualize and execute advanced, theoretically informed personal plan of study and studio practice.

CLO#2: Work independently to solve personally-identified issues of pictorial and symbolic language. (ILO: Communication)

CLO#3: Critically analyze and evaluate their own work and the work, symbol and pictures.

Typical Required and Recommended Equipment and Materials: Varies with each individual student based on their selected course of study.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ART 299 - Special Studies - Art

Var. (1-6) Credit(s)**Prerequisite(s):**

Level III of a specific media area, (permission of Instructor).

Course Description: This course encourages the student to develop critical as well as creative thinking, through the exploration of materials, processes, concepts, and imagery; through exposure to a wide range of ideas, the student is enabled to develop his or her own sense of direction. This course introduces advanced principles, methods and processes of painting through mini lectures, research, studio work and critique. Concepts based on contemporary ideas and images relating to topic area are explored. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Apply advanced concepts and techniques. Includes color technique, representational accuracy and imagination in a series of paintings. (ILO: Communication)
- CLO#2: Create a public mural in collaboration with other artists.
- CLO#3: Realize artistic vision in collaborative work.

Typical Required and Recommended Equipment and Materials: Dependent upon media area.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

Automotive Technology

AM 111 - Automotive Electricity**2 Credit(s)****Prerequisite(s):**

AM 120 or AM 122

Must be an Automotive Technology or Diesel Technology student and enrolled as a declared major in the program.

Course Description: Introduces the fundamentals of basic electricity and the use of electrical service and testing equipment. Provides instruction in all phases of starting and charging systems. Emphasis is on hand-held instruments and basic troubleshooting techniques. Course is required for all entering Automotive Technology students, or waiver for equivalent work experience and ASE Electrical Systems certification.

Course Learning Outcomes:

- CLO#1: Demonstrate departmental policies and shop safety practices.
- CLO#2: Discuss entry-level knowledge of electrical systems and electrical tools and test equipment.
- CLO#3: Identify electrical circuits and components.
- CLO#4: Interpret wiring diagrams. (ILO: Critical Thinking)

CLO#5: Troubleshoot diagnostics to starting and charging systems.

Typical Required and Recommended Equipment and Materials: A basic mechanic's hand tool set as required by the department. Special electrical test equipment such as a 12-volt test light, jumper lead sets, a professional quality digital multi-meter are recommended, but not required.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

AM 111L - Automotive Electricity Lab

4 Credit(s)

Prerequisite(s):

AM 120 or AM 122

Must be an Automotive Technology or Diesel Technology student enrolled as a declared major in the program.

Course Description: Introduces the fundamentals of basic electricity and the use of electrical service and testing equipment. Provides instruction in all phases of starting and charging systems. Emphasis is on hand-held instruments and basic troubleshooting techniques. Course required for all entering Automotive Technology students or waiver for equivalent work experience and ASE Electrical Systems certification.

Course Learning Outcomes:

CLO#1: Demonstrate departmental policies and shop safety practices.

CLO#2: Demonstrate general knowledge of electrical systems and electrical tools and test equipment.

CLO#3: Identify and test electrical circuits and components.

CLO#4: Prepare wiring diagrams and perform basic electrical repairs. (ILO: Critical Thinking)

CLO#5: Perform troubleshooting diagnostics to starting and charging systems.

Typical Required and Recommended Equipment and Materials: A basic mechanic's hand tool set as required by the department. Special electrical test equipment such as a 12-volt test light, jumper lead sets, a professional quality digital multi-meter are recommended, but not required.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

AM 120 - Automotive Maintenance

2 Credit(s)**Prerequisite(s):**

Must be an Automotive Technology or Diesel Technology student enrolled as a declared major in the program.

Corequisite(s):

MTH 20

WR 117 or WR 115 or designated placement

WR 115Q as required

Course Description: Introduces basic mechanical shop safety and industrial practices, professionalism and ethics, shop tools and equipment use, and basic automotive maintenance. Course or equivalent work experience required of all entering Automotive Technology students.

Course Learning Outcomes:

CLO#1: Practice safe working habits as practiced within the mechanical trades.

CLO#2: Demonstrate a working knowledge of the care and use of common mechanical trades tools

CLO#3: Locate procedures, prices, labor time and parts. (ILO: Information Literacy)

CLO#4: Perform basic mechanical maintenance operations.

CLO#5: Demonstrate a professional work ethic as expected by industry.

CLO#6: Follow procedures on handling of hazardous materials found in the mechanical industry.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

AM 120L - Automotive Maintenance Lab**4 Credit(s)****Prerequisite(s):**

Must be an Automotive Technology or Diesel Technology student enrolled as a declared major in the program.

Corequisite(s):

MTH 20

WR 117 or WR 115 or designated placement

WR 115Q as required

Course Description: Practice basic mechanical shop safety and industrial practices, professionalism and ethics, shop tools and equipment use, and basic automotive maintenance. Course or equivalent work experience required of all entering Automotive

Technology students.

Course Learning Outcomes:

- CLO#1: Practice safe working habits as practiced within the mechanical trades.
- CLO#2: Demonstrate a working knowledge of the care and use of common mechanical trades tools.
- CLO#3: Locate procedures, prices, labor time and parts. (ILO: Information Literacy)
- CLO#4: Perform basic mechanical maintenance operations.
- CLO#5: Demonstrate a professional work ethic as expected by industry.
- CLO#6: Follow procedures on handling hazardous materials found in the mechanical industry.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

AM 122 - Gasoline Engines Rebuild

3 Credit(s)

Corequisite(s):

WR 117 or WR 115 or designated placement

WR 115Q as required

MTH 20 and AM 122L

Course Description: Introduces theory and construction of various gasoline internal combustion engines and how to rebuild, service, inspect, and repair them.

Course Learning Outcomes:

- CLO#1: Demonstrate departmental policies and shop safety practices, including those related to engines.
- CLO#2: Explain the basic function of the major parts of an automotive engine in relation to the four-stroke cycle. (ILO: Information Literacy)
- CLO#3: Define common industry standard engine terms and basic classifications.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

AM 122L - Gasoline Engines Rebuild Lab

4 Credit(s)

Corequisite(s):

MTH 20

WR 117 or WR 115 or designated placement

WR 115Q as required

AM 122

Course Description: A practical application of the theory taught in AM122. Identify major automotive engine types and designs. Disassemble an engine to measure, inspect, and determine functionality of engine components. Correctly reassemble an engine and confirm by operating the engine. This lab is taken concurrently with AM122.

Course Learning Outcomes:

CLO#1: Demonstrate departmental policies and shop safety practices, including those related to engines.

CLO#2: Explain the basic function of the major parts of an automotive engine in relation to the four-stroke cycle. (ILO: Information Literacy)

CLO#3: Define common industry standard engine terms and basic classifications.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

AM 131 - Engine Dynamics and Diagnosis

3 Credit(s)

Prerequisite(s):

AM 120 or AM 122

Course Description: Provides students with basic engine performance skills. Topics covered are basic and electronic ignition systems, basic fuel systems, oscilloscope diagnosis, emissions systems, infrared diagnosis, and mechanical diagnosis.

Course Learning Outcomes:

CLO#1: Explain the basic principles of operation of modern automotive ignition and fuel systems.

CLO#2: Apply basic principles of operation to advanced diagnostic techniques of modern ignition and fuel system malfunctions.

CLO#3: Read and interpret oscilloscope patterns, and scan tool diagnostic data streams to identify malfunctioning ignition and fuel system components. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Each student is required to keep a notebook for handouts and notes and personal hand tools for laboratory procedures.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

AM 131L - Engine Dynamics and Diagnosis Lab

4 Credit(s)

Prerequisite(s):

AM 120 or AM 122

Course Description: Provides student with basic engine performance skills. Topics covered are the repair of basic electronic ignition systems, basic fuel systems, emission systems and engine mechanical components based on scan tool diagnosis, oscilloscope diagnosis, infrared diagnosis, and mechanical diagnosis.

Course Learning Outcomes:

- CLO#1: Explain the basic principles of operation of modern automotive ignition and fuel systems.
- CLO#2: Apply basic principles of operation to advanced diagnostic techniques of modern ignition and fuel system malfunctions.
- CLO#3: Professionally perform necessary repairs, as per industry standard, to malfunctioning ignition and fuel systems. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Each student is required to keep a notebook for handouts and notes and personal hand tools for laboratory procedures.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

AM 141 - Manual Transmissions and Transaxles

3 Credit(s)

Prerequisite(s):

AM 111 and AM 120

Course Description: Covers theory of operation, maintenance, diagnosis, and repair of manual transmissions and transaxles, clutches, drive axles, and four-wheel and all-wheel drive systems.

Course Learning Outcomes:

- CLO#1: Explain the basic principles of operation and service techniques of a manual transmission.
- CLO#2: Describe service techniques to perform inspections, tests and component diagnosis.
- CLO#3: Research and develop a proper strategy to professionally perform necessary repairs as per industry standards. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Each student is required to

keep a notebook for handouts and notes and personal hand tools for laboratory procedures.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

AM 141L - Manual Transmissions and Axles Lab

4 Credit(s)

Prerequisite(s):

AM 111 and AM 120

Course Description: Covers theory of operation, maintenance, diagnosis, and repair of manual transmissions and transaxles, clutches, drive axles and four-wheel and all-wheel drive systems.

Course Learning Outcomes:

CLO#1: Demonstrate the basic principles of operation and service techniques of a manual transmission.

CLO#2: Apply service techniques to perform inspections, tests and component diagnosis.

CLO#3: Efficiently perform necessary repairs as per industry standards. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

AM 151 - Automotive Brake Systems

2 Credit(s)

Prerequisite(s): AM 111 and AM 120

Course Description: Covers the principles of brake operation, function, and design as well as troubleshooting, overhauling, repairing, and servicing of automotive brake systems.

Course Learning Outcomes:

CLO#1: Explain basic principles of operation and service techniques of the automobile brake systems.

CLO#2: Determine service techniques to perform safety inspections, system tests, and diagnosis of possible problem areas related to the automotive brake system.

CLO#3: Develop a strategy to perform the necessary adjustments and repairs to meet industry / NATEF standards. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Each student is required to keep a notebook for handouts and notes and personal hand tools for laboratory procedures.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

AM 151L - Automotive Brake Systems Lab

4 Credit(s)

Prerequisite(s): AM 111 and AM 120

Course Description: Covers the principles of brake operation, function, and design as well as troubleshooting, overhauling, repairing, and servicing of automotive brake systems.

Course Learning Outcomes:

- CLO#1: Describe the basic principles of the automotive brake system operation in action, and perform service repairs of the automobile brake systems.
- CLO#2: Apply service techniques to perform safety inspections, system tests, and diagnosis of automotive brake systems.
- CLO#3: Professionally perform the necessary adjustments and repairs to meet industry / NATEF standards after determining the proper repair required with proper diagnostic procedures. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Each student is required to keep a notebook for handouts and notes and personal hand tools for laboratory procedures.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

AM 160 - Auto Suspension and Steering

2 Credit(s)

Prerequisite(s): AM 111 and AM 120

Course Description: Focuses on the diagnosis and repair of major under-car components and wheel alignment. Topics covered are suspension and steering systems as well as front- and rear wheel alignment.

Course Learning Outcomes:

- CLO#1: Identify the principles of alignment and geometry.
- CLO#2: Explain how to prevent uneven tire wear.
- CLO#3: Describe how to repair problems of alignment and geometry as it relates to the automotive industry. (ILO: Critical Thinking)
- CLO#4: Explain the proper techniques of a complete under-car inspection.

Typical Required and Recommended Equipment and Materials: Each student is required to keep a notebook for handouts and notes and personal hand tools for laboratory procedures.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

AM 160L - Auto Suspension and Steering Lab

4 Credit(s)

Prerequisite(s): AM 111 and AM 120

Course Description: Focuses on the diagnosis and repair of major under-car components and wheel alignment. Topics covered are suspension and steering systems as well as front and rear wheel alignment.

Course Learning Outcomes:

- CLO#1: Recognize the principles of alignment and geometry.
- CLO#2: Identify how to prevent uneven tire wear.
- CLO#3: Troubleshoot problems of alignment and geometry. (ILO: Critical Thinking)
- CLO#4: Demonstrate how to operate the equipment pertaining to alignment and geometry.
- CLO#5: Perform a complete under-car inspection.

Typical Required and Recommended Equipment and Materials: Each student is required to keep a notebook for handouts and notes and personal hand tools for laboratory procedures.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

AM 190L - Automotive Repair Lab I

4 Credit(s)

Prerequisite(s):

AM 111 and AM 120

Course Description: Provides live work experience in all aspects of repair expected of entry-level line technicians. Includes basic engine performance, diagnosis and repair of engines, chassis, power trains, and basic electrical systems. Primarily designed for first-year students or those with appropriate skill levels. Formerly offered as AM190.

Course Learning Outcomes:

- CLO#1: Perform advanced diagnosing and testing of the various automotive systems.

- CLO#2: Perform advanced overhauling and repair of various automotive system components.
(ILO: Critical Thinking)
- CLO#3: Demonstrate professional work habits, attitudes and safety practices as required by industry.
- CLO#4: Document all repairs performed on vehicles in accordance with industry standards.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

AM 199 - Special Studies - Automotive

Variable (1-3) Credit(s)

Prerequisite(s): AM 111 and AM 120

Course Description: Focuses study in a variety of mechanical technology topics to fulfill specific educational goals. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Identifies need for data, obtains it from existing sources or creates it, and evaluates its relevance and accuracy.
- CLO#2: Organizes, processes, and maintains written or computerized records and other forms of information in a systematic fashion.
- CLO#3: Selects and analyzes information and communicates the results to others using oral, written, graphic, pictorial, or multimedia methods. (ILO: Communication)
- CLO#4: Employs computers to acquire, organize, analyze, and communicate information.

Typical Required and Recommended Equipment and Materials: Computer with a word processor and printer; Internet access, which may be used for research assistance, a filing method for organizing research materials, and notebook for recording data. A copy machine may be used.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

AM 210 - Mechanical Careers Development

4 Credit(s)

Prerequisite(s):

AM 111 and AM 120

Course Description: Introduces students to career paths available in the automotive industry such as service advisor, parts professional, service management skills, and expectations related to professionalism. Includes communication in the workplace, effective employee/employer

relations, and job search skills. Course is for second-year students only.

Course Learning Outcomes:

CLO#1: Describe the industry standards for professionalism.

CLO#2: Develop the tools and strategies needed for a successful employment search including cover letters, resumes, and interviewing skills. (ILO: Communication)

CLO#3: Use effective communication skills when interacting with vehicle owners. (ILO: Communication)

CLO#4: Follow proper vehicle check in procedures. (ILO: Information Literacy)

CLO#5: Document important vehicle information when generating a repair order. (ILO: Information Literacy)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

AM 232 - Computerized Engine Systems

3 Credit(s)

Prerequisite(s): AM 131

Course Description: Provides students with computer-managed engine performance skills. Topics covered are computer engine control systems, fuel injection, turbo-charging, and the use of sophisticated electronic test equipment to diagnose problems in these systems.

Course Learning Outcomes:

CLO#1: Explain basic principles of operation and diagnostic procedures in the automotive DI and EI Ignition systems.

CLO#2: Compare and explain basic principles of operation concerning automotive computer input and output devices.

CLO#3: Apply basic principles of operation and perform diagnostics on electronic fuel injection systems.

CLO#4: Discuss and develop accepted procedures for system diagnosis and repair. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Each student is required to keep a notebook for handouts and notes and personal hand tools for laboratory procedures.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

AM 232L - Computerized Engine Systems Lab

4 Credit(s)

Prerequisite(s): AM 131

Course Description: Provides students with computer-managed engine performance skills. Topics covered are computer engine control systems, fuel injection, turbo-charging, and the use of sophisticated electronic test equipment to diagnose problems in these systems.

Course Learning Outcomes:

- CLO#1: Apply basic principles of operation and perform diagnostics DI and EI Ignition systems.
- CLO#2: Apply basic principles of operation and perform diagnostics on computer input and output devices.
- CLO#3: Apply basic principles of operation and perform diagnostics on electronic fuel injection systems.
- CLO#4: Demonstrate accepted industry procedures for system diagnosis and repair. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Each student is required to keep a notebook for handouts and notes and personal hand tools for laboratory procedures.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

AM 233 - Adv Auto Computer Systems

3 Credit(s)

Prerequisite(s):

AM 232

Course Description: Topics include On-Board Diagnostics II (OBDII) systems, network computer systems, airbag system diagnosis, anti-lock brake diagnosis, electronic instrument clusters, security systems, and various other automotive computer systems.

Course Learning Outcomes:

- CLO#1: Utilize the automotive lab scope as a diagnostic tool. (ILO: Critical Thinking)
- CLO#2: Explain the principles of operation and service techniques of OBDII diagnostics.
- CLO#3: Evaluate advanced diagnostic strategies, and advanced tools used in the diagnosis and repair of a modern automotive microprocessor system.
- CLO#4: Perform inspections, tests and component diagnosis of automotive air bag systems and network communication systems.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

AM 233L - Adv Auto Computer Systems Lab

4 Credit(s)

Prerequisite(s):

AM 232

Course Description: Topics include On-Board Diagnostics II (OBDII) systems, network computer systems, airbag system diagnosis, anti-lock brake diagnosis, electronic instrument clusters, security systems, and various other automotive computer systems.

Course Learning Outcomes:

- CLO#1: Utilize the automotive lab scope as a diagnostic tool. (ILO: Critical Thinking)
- CLO#2: Explain the principles of operation and service techniques of OBDII diagnostics.
- CLO#3: Evaluate advanced diagnostic strategies, and advanced tools used in the diagnosis and repair of a modern automotive microprocessor system.
- CLO#4: Perform inspections, tests and component diagnosis of automotive air bag systems and network communication systems.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

AM 242 - Automatic Transmissions-axes

3 Credit(s)

Prerequisite(s): AM 141

Course Description: Covers theory of operation, diagnosis, maintenance, and repair of automotive automatic transmissions and transaxles.

Course Learning Outcomes:

- CLO#1: Explain the basic principles of operation and service techniques of an automatic transmission. (ILO: Critical Thinking)
- CLO#2: Research and report proper service techniques to perform inspections, tests and component diagnosis.
- CLO#3: Describe the proper techniques to perform necessary repairs as per industry standards.

Typical Required and Recommended Equipment and Materials: Each student is required to keep a notebook for handouts and notes personal hand tools for laboratory procedures.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

AM 242L - Automatic Transmissions-axles Lab**4 Credit(s)**

Prerequisite(s): AM 141

Course Description: Covers theory of operation, diagnosis, maintenance, and repair of automotive automatic transmissions and transaxles.

Course Learning Outcomes:

- CLO#1: Demonstrate the basic principles of operation and service techniques of an automatic transmission. (ILO: Critical Thinking)
- CLO#2: Apply service techniques to perform inspections, tests and component diagnosis.
- CLO#3: Demonstrate diagnostics and related repairs as per industry standards.

Typical Required and Recommended Equipment and Materials: Each student is required to keep a notebook for handouts and notes personal hand tools for laboratory procedures.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

AM 270 - AC for Automotive Technicians**2 Credit(s)**

Prerequisite(s): AM 111 and AM 120

Course Description: Covers vehicle automotive air conditioning systems theory and operation. Uses industry identified skills for diagnosis, repair, and servicing of R12 and R134A systems. Also covers government regulations in the safe handling of refrigerants.

Course Learning Outcomes:

- CLO#1: Explain the basic principles of operation and service of various automobile air conditioning systems.
- CLO#2: Describe the service techniques to perform inspections, tests, and component diagnosis. (ILO: Critical Thinking)
- CLO#3: Describe the proper methods of how to operate refrigerant recovery, recycling and charging equipment.
- CLO#4: Describe the proper handling and storage of different types of refrigerant as per industry standards.

Typical Required and Recommended Equipment and Materials: Each student is required to keep a notebook for handouts and notes, and personal hand tools for laboratory procedures.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

AM 270L - AC for Automotive Technicians Lab

3 Credit(s)

Prerequisite(s): AM 111 and AM 120

Course Description: Covers vehicle automotive air conditioning systems theory and operation. Uses industry identified skills for diagnosis, repair, and servicing of R12 and R134A systems. Also covers government regulations in the safe handling of refrigerants.

Course Learning Outcomes:

- CLO#1: Identify the basic components and describe the operation of various automobile air conditioning systems.
- CLO#2: Apply the service techniques to perform inspections, tests, and component diagnosis. (ILO: Critical Thinking)
- CLO#3: Demonstrate proper operation of refrigerant recovery, recycling and charging equipment.
- CLO#4: Demonstrate necessary repairs as per industry standards.

Typical Required and Recommended Equipment and Materials: Each student is required to keep a notebook for handouts and notes, and personal hand tools for laboratory procedures.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

AM 280 - CWE - Automotive

Var. (1-12) Credit(s)

Prerequisite(s):

Permission of CWE Instructor or Department Chair

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their program. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, students should complete this course within the last 2 terms of their certificate or degree. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Successfully complete the interview process.

- CLO#2: Demonstrate the importance of completing forms accurately and meeting deadlines.
(ILO: Communication)
- CLO#3: Apply program knowledge, theories, principles, methods and technology while gaining new knowledge, skills and experience while on the jobsite.
- CLO#4: Establish contacts which will help in obtaining employment.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

AM 290 - Automotive Repair Lab II

4 Credit(s)

Prerequisite(s): AM 190L

Course Description: Continues building skills, knowledge, and work habits related to all types of automotive repair work performed in the industry. Course is for second-year students, or can be taken in place of cooperative work experience.

Course Learning Outcomes:

- CLO#1: Perform advanced diagnosing and testing of the various automotive systems.
- CLO#2: Perform advanced overhauling and repairing the various automotive system components. (ILO: Critical Thinking)
- CLO#3: Identify the expectations in a professional work environment.
- CLO#4: Exhibit professional work habits, attitudes and safety practices as required by industry.

Typical Required and Recommended Equipment and Materials: A basic mechanics hand tool set as required by the department

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

Business Administration

BA 101Z - Introduction to Business

4 Credit(s)

Prerequisite(s):

Placement into WR 115

WR 115Q as required

Course Description: Presents an integrated view of both established and entrepreneurial businesses by studying their common characteristics and processes in a global context. Introduces theory and develops basic skills in the areas of accounting, finance, management, and marketing, with an emphasis on social responsibility and ethical practices. Explores how businesses can create value for themselves and society by addressing environmental and social challenges.

Course Learning Outcomes:

- CLO#1: Explain the role of business in society.
- CLO#2: Identify the different forms of business.
- CLO#3: Describe the importance of entrepreneurship in the economy. (ILO: Critical Thinking)
- CLO#4: Explain the main functional areas of business, including accounting, finance, human resources, management and leadership, and marketing.
- CLO#5: Explain the importance of ethics and social responsibility in business contexts.
- CLO#6: Describe how economics and globalization impact business decisions and operations.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

BA 120 - Human Relations in Organizations

3 Credit(s)

Corequisite(s):

WR 115 or higher-level writing course

WR 115Q as required

Course Description: Using current research, lecture, class discussion, group activities, videos, guest speakers, and supplemental exercises to explore, evaluate, and understand common situations and problems in human relations for the organizational environment. Among the issues covered are communications, group dynamics, self-awareness (communication styles, self-esteem, attitudes, emotions, and ethics), workplace diversity and inclusion, motivation, trust-building, self-disclosure, teamwork, and conflict management.

Course Learning Outcomes:

- CLO#1: Define human relations.
- CLO#2: Explain the importance of developing good human relations skills.
- CLO#3: Identify how self-awareness, attitudes, motivations, communication styles, and values contribute to career success.
- CLO#4: Compare and contrast strategies that support team building and conflict mitigation.
- CLO#5: Explain the importance of diversity and inclusion, practicing acceptance, and achieving emotional balance. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BA 131 - Introduction to Business Computing**4 Credit(s)****Prerequisite(s):**

MTH 20 or designated placement

Corequisite(s):

WR 115 or higher-level writing course

WR 115Q as required

Course Description: Covers basic computer applications for business. Students will gain hands-on experience with Microsoft Office 365/2021 applications using file management, word processing, spreadsheet, and media presentation software to create a variety of business documents, spreadsheets, and slide shows. Students must have access to the following Microsoft applications: Word 2021, Excel 2021, and PowerPoint 2021. Students should plan on using a Windows PC for this course.

Course Learning Outcomes:

CLO#1: Utilize Microsoft Office applications as professional business tools.

CLO#2: Demonstrate foundational skills in MS Office (Word, Excel, and PowerPoint).

CLO#3: Utilize critical thinking skills to design and create various documents, spreadsheets, and presentations based on audience need. (ILO: Critical Thinking)

CLO#4: Create an integrated final project, including files from Microsoft Word, PowerPoint, and Excel.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

BA 169Z - Data Analysis Using Microsoft Excel**4 Credit(s)****Prerequisite(s):**

MTH 60 (or higher-level math) or BT 160, and

BA 131 or CIS 120

Course Description: Covers Microsoft Excel software skills necessary for evidence-based problem-solving, including workbook editing, formula creation, charting, and pivot tables. Emphasizes hands-on learning, using Excel functions to perform data analysis to enhance decision-making. Formerly offered as BA285 / CS125SS.

Course Learning Outcomes:

- CLO#1: Create and manage worksheets using appropriate data formatting.
- CLO#2: Construct formulas with relative, absolute, and mixed cell references. (ILO: Critical Thinking)
- CLO#3: Analyze data using logical, lookup, mathematical, statistical, and text functions.
- CLO#4: Manipulate large volumes of data using datasets and tables.
- CLO#5: Interpret data using data visualization tools, including pivot tables and charts.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed 48 hours per term.

BA 199 - Special Studies - Business**Var. (1-3) Credit(s)****Prerequisite(s):**

Permission of Instructor. Other prerequisites may vary depending on subject offerings.

Course Description: Selected topics of study in business are offered on demand through workshops, seminars, lecture, lab, and/or independent study format. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Individual course outcomes and ILOs will be developed at the time the proposed class is designed. Typical assessments will include but are not limited to homework exercises, discussion, quizzes, examinations, course discussions, and research papers.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) hours per term, not to exceed (12) hours per term.

BA 206 - Management Fundamentals**3 Credit(s)****Prerequisite(s):**

BA 101Z

Recommended Prerequisite(s):

BA120

Course Description: The emphasis of the course is designed to cover the functions of management from a socially responsible and ethical view. Students will be able to distinguish among different types of plans, develop mission statements, set goals and objectives, design an

organizational structure, and recognize staffing and training issues. They will also be exposed to motivation and leadership theories, managing human resources, working in teams, and evaluation of the planning process.

Course Learning Outcomes:

CLO#1: Describe the functions of management.

CLO#2: Critique management styles and identify best practices within an organization. (ILO: Critical Thinking)

CLO#3: Explain the difference between tactical, operational, strategic, and contingency planning.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BA 209 - Professional Workforce Preparation

2 Credit(s)

Prerequisite(s):

BA 211Z, BA 214, BA 223, BT 103, BT 168

Course Description: This course prepares students for employment by focusing on resume, cover letter, and application preparation; interview presentation; job search techniques; work ethic and professional image; interpersonal relationships; and business etiquette in the workplace. Students are expected to have completed most of their coursework toward a certificate or degree program before taking this class. Formerly offered as BA109.

Course Learning Outcomes:

CLO#1: Identify job market opportunities relevant to student's given industry or career path. Research job market and opportunities via the web and via networking. (ILO: Information Literacy)

CLO#2: Develop and prepare a career portfolio.

CLO#3: Prepare and participate in a mock employment interview.

Typical Required and Recommended Equipment and Materials: Access to a computer with Internet capability, access to Microsoft Office suite, and familiarity with Blackboard.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

BA 211Z - Principles of Financial Accounting

4 Credit(s)

Prerequisite(s):

BA 131 or CIS 120 and BT 160 or higher-level math.

Course Description: Imparts an understanding of the purpose of accounting, common financial statement items, and the principles of internal controls. Focuses on recording the impact of economic events on account balances using U.S. Generally Accepted Accounting Principles, and the creation and analysis of financial statements to aid in external decision making.

Course Learning Outcomes:

- CLO#1: Describe the purpose of accounting and its role in business and society.
- CLO#2: Explain common balance sheet and income statement items and how they fit in the accounting equation.
- CLO#3: Analyze and record the impact of basic business events on account balances within the accounting cycle in accordance with U.S. Generally Accepted Accounting Principles.
- CLO#4: Create the income statement and balance sheet using account balances in accordance with U.S. Generally Accepted Accounting Principles. (ILO: Critical Thinking)
- CLO#5: Describe the purpose and principles of internal controls.
- CLO#6: Conduct basic analysis and interpretation of the income statement, balance sheet, and cash flow statement to aid in stakeholder decision making.

Typical Required and Recommended Equipment and Materials: Pens, #2 pencils, erasers, paper, and access to a computer for assignments. Microsoft © Excel access for homework templates.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

BA 212 - Financial Accounting II

4 Credit(s)

Prerequisite(s):

BA 211Z

Course Description: Continues the study of financial accounting theory with more in-depth study of asset, liability, and equity accounting in accordance with generally accepted accounting principles (GAAP). Includes accounting for receivables; plant assets, natural resources, and intangibles; current and long-term liabilities; investments; payroll; stockholders' equity; the preparation of the statement of cash flows; and financial statement analysis.

Course Learning Outcomes:

- CLO#1: Use accounting terms; apply the rules of debit and credit; record transactions in the journal; post from the journal to the ledger; and prepare and use a trial balance. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Design internal controls for receivables; use the allowance method to account for receivables; understand the direct write-off method for receivables; account for notes

- receivable and discount a notes receivable; report receivables on the balance sheet; and use the acid-test ratio and days' sales in receivables to evaluate a company.
- CLO#3: Measure the cost of a plant asset; account for depreciation; select the best depreciation method for tax purposes; account for the disposal of a plant asset; account for natural resources; and account for intangible assets.
- CLO#4: Account for current liabilities of known amount; account for current liabilities that must be estimated; compute payroll amounts; record basic payroll transactions; use a payroll system; account for bonds payable; measure interest expense by the straight-line amortization method; account for retirement and conversion of bonds payable; report liabilities on the balance sheet; and apply the time value of money concepts for bond purchases.
- CLO#5: Identify the characteristics of a corporation; record the issuance of stock; prepare the stockholders' equity section of a corporation balance sheet; account for cash dividends; use different stock values in decision making; evaluate return on assets and return on stockholders' equity; and account for the income tax of a corporation.
- CLO#6: Account for stock dividends; distinguish stock splits from stock dividends; account for treasury stock; report restrictions on retained earnings; and analyze a corporate income statement.
- CLO#7: Indicate the usefulness of the statement of cash flows; distinguish among operating, investing, and financing activities; prepare a statement of cash flows using the indirect and direct methods; and analyze the statement.
- CLO#8: Discuss the need for and tools for comparative and financial statement analysis; explain and apply horizontal and vertical analysis; identify and compute ratios and describe their purpose and use in analyzing a firm's liquidity, profitability, and solvency; and identify the limitations of statement analysis.
- CLO#9: Examine and interpret ethical dilemmas in the field of accounting and make ethical business judgments based on codes of conduct, laws, and generally accepted accounting principles.

Typical Required and Recommended Equipment and Materials: Pens, #2 pencils, erasers, paper, and access to a computer for assignments. Microsoft® Excel access for homework templates. Calculator for use in class and assignments.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

BA 213Z - Principles of Managerial Accounting

4 Credit(s)

Prerequisite(s):

BA 211Z

Course Description: Builds an understanding of the role of managerial accounting in a business, focusing on the development and use of information to evaluate production costs and operational performance in support of short- and long-term organizational decision-making.

Course Learning Outcomes:

CLO#1: Explain the role of managerial accounting in an organization with respect to planning and control decisions.

CLO#2: Apply absorption and variable costing methods to determine product costs.

CLO#3: Develop and use relevant operational information to determine cost behavior patterns and conduct cost-volume-profit analyses. (ILO: Critical Thinking)

CLO#4: Use commonly accepted tools, including budgets, standard costs, and variance analysis to evaluate operational performance.

CLO#5: Apply commonly accepted methods to evaluate capital and operational decisions.

Typical Required and Recommended Equipment and Materials: Pens, #2 pencils, erasers, paper, and access to a computer for assignments. Microsoft © Excel access for homework templates.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) hours per term, not to exceed (48) hours per term.

BA 214 - Business Communications

4 Credit(s)

Prerequisite(s):

WR 115 or higher-level writing course

WR 115Q as required

BT 103 and BA 131

Recommended Prerequisite(s): BT 168

Course Description: Focuses on planning, creating, writing, and revising typical business documents such as letters, memos, reports, and presentations using current communication technologies (word processing, spreadsheets, graphical presentations, email, and the Internet). Understanding the purpose of communication in business is also covered. Use of word processing software for in-class/online assignments and examinations is required.

Course Learning Outcomes:

CLO#1: Analyze various business communication documents for appropriate messaging and tone.

CLO#2: Plan, create, and edit documents demonstrating proper business communication strategies.

CLO#3: Utilize effective formatting to address a variety of business situations.

CLO#4: Produce a formal report integrating data from various sources, including visuals. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Microsoft® Office suite

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

BA 218 - Personal Finance**3 Credit(s)****Prerequisite(s):**

BT 160 or MTH 60 or higher-level math course

Course Description: Personal Finance is designed to acquaint the student with finance principles, terminology, and practical concepts of sound financial planning. Students will be introduced to such topics as managing cash and savings; consumer purchasing strategies; renting versus home-ownership; shopping for health, life, home, disability, and automobile insurance; preparing a personal financial plan; wise use of credit; financial institutions; identity theft; bankruptcy; fundamentals of investing; retirement planning; and estate planning.

Course Learning Outcomes:

CLO#1: Create and manage a personal budget.

CLO#2: Evaluate and synthesize various financial products and services.

CLO#3: Identify basic investment principles. (ILO: Critical Thinking)

CLO#4: Develop strategies for responsible borrowing and improving overall financial health.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BA 223 - Principles of Marketing**3 Credit(s)****Prerequisite(s):**

BT 103

Recommended Prerequisite(s):

BA 101Z

Course Description: This course is designed to acquaint the student with basic marketing principles, terminology, and applied marketing concepts. Introduces students to the marketing concept, promotional and pricing strategies, consumerism, product and distribution strategies, governmental influence on marketing, marketing research, market segmentation, and consumer / industrial / government buying behavior.

Course Learning Outcomes:

CLO#1: Describe fundamental marketing concepts including marketing mix, market segmentation, targeting, and positioning.

CLO#2: Apply and defend marketing principles and strategies in real-world scenarios to maximize business success.

CLO#3: Evaluate existing business marketing plans and promotional tactics and propose improved marketing strategies.(ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BA 224 - Human Resource Management

3 Credit(s)

Prerequisite(s):

BA 101Z and BT 103

Recommended Prerequisite(s): BT 123 and BA 206

Course Description: Designed to build on the information contained in human relations and introductory management classes. Students will be introduced to functions, principles, practices, and techniques of human resources management. Topics covered include the role of HRM, developing and implementing strategic HRM plans, diversity and multiculturalism, recruitment, selection, compensation and benefits, retention and motivation, training and development, managing employee performance, employee assessment, working with labor unions, safety and health at work, and international HRM.

Course Learning Outcomes:

CLO#1: Discuss the role and activities of the human resource management function in an organization.

CLO#2: Explain workplace health and safety protections including the major provisions of the Occupational Safety and Health Act (OSHA).

CLO#3: Propose a plan to recruit, select, orient, train, and evaluate employees within legal guidelines. (ILO: Communication)

CLO#4: Analyze key issues related to employee retention such as job design, motivation, compensation and benefits, diversity and inclusion, and career development. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BA 226Z - Introduction to Business Law

4 Credit(s)

Prerequisite(s):

WR 115 or higher-level writing course

WR 115Q as required

Course Description: Provides a comprehensive overview of U.S. business law, including the legal system, contracts, torts, intellectual property, agency, employment, and business organization forms. Emphasizes practical legal knowledge and explores how laws impact business operations with a focus on risk management, contract disputes, business formation, and compliance with government regulation. Introduces legal challenges in business through real cases and legal terminology.

Course Learning Outcomes:

CLO#1: Describe the U.S. legal system as applied to business including sources of law, the judicial system, and alternative forms of dispute resolution.

CLO#2: Explain the applicability of tort, criminal, and intellectual property law to business.

CLO#3: Identify business organization forms and the responsibilities and liabilities of principals and agents.

CLO#4: Describe the legal requirements for contract formation, enforcement, and defenses, as well as application of the Uniform Commercial Code.

CLO#5: Explain the basic tenets of employment, labor and wage laws related to business.
(ILO: Equity, Diversity, Inclusion and Global Consciousness)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

BA 228 - Computer Accounting Applications

2 Credit(s)

Prerequisite(s):

BA 211Z

Course Description: Covers the application of integrated software (QuickBooks) as an accounting tool in service and merchandising companies. Includes general ledger, accounts receivable, accounts payable, inventory, and payroll. Emphasis is on incorporating knowledge of manual accounting into a computerized system.

Course Learning Outcomes:

CLO#1: Establish a company using accounting software, including creating a standard chart of accounts and maintaining comprehensive lists for customers, employees, vendors, and inventory.

CLO#2: Utilize accounting software to accurately record sales, purchases, payments, perform month-end adjustment entries and enter payroll transactions.

CLO#3: Generate the financial statements at the end of each accounting period by practicing the correction of errors. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of twenty (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

BA 230 - Payroll and Tax Procedures**3 Credit(s)****Prerequisite(s):**

BA 211Z

Recommended Prerequisite(s):

BA 169Z

Course Description: Emphasizes understanding of the federal and state payroll laws and regulations, calculating earnings and deductions, preparing payroll records, understanding and preparation of federal and state payroll tax deposits and tax returns, and accounting for payroll. Formerly offered as BA177.

Course Learning Outcomes:

- CLO#1: Describe the role of payroll professionals, the payroll accounting process, and relevant U.S. employment and tax laws. (ILO: Critical Thinking)
- CLO#2: Ensure accurate payroll calculations for gross pay, deductions, and withholdings, including FICA and income taxes, as well as state and federal unemployment liabilities.
- CLO#3: Record payroll journal entries, generate payroll documents such as payroll registers, and year-end federal and state tax forms.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BA 238 - Effective Business Presentations**3 Credit(s)****Prerequisite(s):**

WR 115 or higher-level writing course

WR 115Q as required

BT 111 and BA 131

Course Description: This course teaches students the essential skills to effectively create business presentations. Students will explore techniques that enhance persuasion and conflict resolution. The course also covers the fundamentals of direct selling, emphasizing the importance of professionalism in all business interactions. Additionally, students will learn vital time management skills to optimize productivity and ensure impactful presentations.

Course Learning Outcomes:

- CLO#1: Identify the proper steps in developing and delivering a professional business presentation. (ILO: Communication)
- CLO#2: Build and deliver a goal-oriented business presentation.
- CLO#3: Develop personal time management strategies to support timely business presentations and negotiations.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BA 243 - Social Media Marketing**3 Credit(s)****Prerequisite(s):**

WR 115 or higher-level writing course

WR 115Q as required

BA 223

Course Description: This course covers the essentials of social media marketing, focusing on how companies leverage social platforms to promote products, engage customers, and convey their brand's mission and values. Key topics include building online conversations, developing effective social media strategies, branding through social channels, creating valuable content, aligning social media with offline marketing, and understanding the role and benefits of a social media consultant.

Course Learning Outcomes:

- CLO#1: Evaluate the effectiveness of the existing social media presence for specific organizations.
- CLO#2: Evaluate specific social media sites for relevance to the organization's targeted audience. (ILO: Critical Thinking)
- CLO#3: Build a social media marketing strategy and plan for a given industry.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term

BA 280 - CWE - Business**Var. (1-12) Credit(s)****Prerequisite(s):**

BA 209 and permission of CWE Instructor or Department Chair.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their programs. Together, the Instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate the ability to successfully complete the interview process (filling out forms, meeting deadlines, and the interview itself.)
- CLO#2: Demonstrate an acceptable work ethic as described in the CWE Work Ethic and Professional Presence Guidelines and student's learning objectives.
- CLO#3: Demonstrate a professional presence as described in the CWE Work Ethic and Professional Presence Guidelines while on the job. (ILO: Communication)
- CLO#4: Apply program knowledge, theories, principles, methods and technology to the CWE.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard of (33) CWE hours per credit, not to exceed (36) hours per term.

BA 282 - Applied Business Statistics

4 Credit(s)

Prerequisite(s):

STAT 243Z

Course Description: Builds on the knowledge of descriptive statistics learned in STAT 243Z (formerly offered as MTH243) to develop abilities in inferential statistics. Emphasis is on the understanding and application of interval estimating, hypothesis testing, correlation and regression, inferences using Chi-square, and one-way and two-way analysis of variance (ANOVA). Designed to provide students with the analytical skills they will need in upper division business courses including accounting, finance, operations management and applied research. Dual numbered as MTH 244.

Course Learning Outcomes:

- CLO#1: Describe the impact of sampling and the difference between observation and experiment.
- CLO#2: Perform significance testing and interval estimation. Be able to describe the strengths and weaknesses of these two methods.
- CLO#3: Test a hypothesis against the null hypothesis.
- CLO#4: Test hypotheses comparing two populations for both categorical and quantitative response variables. (ILO: Quantitative Literacy and Reasoning)
- CLO#5: Explain when and how to use the Chi square test for categorical bivariate analysis.
- CLO#6: Prepare statistical analysis using linear regression techniques for quantitative bivariate data.

- CLO#7: Prepare statistical analysis using the Multiple Linear Regression technique.
CLO#8: Prepare statistical analysis using one way and two-way Analysis of Variance (ANOVA) techniques.
CLO#9: Be familiar with simple nonparametric statistical analysis and know when such analysis is appropriate.

Typical Required and Recommended Equipment and Materials: Pens, #2 pencils, erasers, paper, and access to a computer for assignments. Microsoft® Excel access for homework templates. Graphing calculator such as TI-83 or TI-84 (Plus or Silver editions).

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

Biology

BI 100SB - Biology of Human Body Systems

3 Credit(s)

Course Description: Presents a rational and systematic observation of the human body and allows identification, description and discussion to create a basic understanding for students interested in the Basic Health Care certificate or anyone interested in a basic understanding of how the human body works. Topics include body organization, basic chemistry, cell structure and function, tissues, and an overview of the major body systems.

Course Learning Outcomes:

- CLO#1: Describe, identify structures, and apply knowledge of the characteristics of living things biological organization, and the scientific method.
CLO#2: Describe, identify structures, and apply knowledge of basic chemical properties.
CLO#3: Describe, identify structures, and apply knowledge of histology, the integumentary system, and homeostasis.
CLO#4: Describe, identify structures, and apply knowledge of the musculoskeletal systems.
CLO#5: Describe, identify structures, and apply knowledge of the nervous system, including special senses. (ILO: Critical Thinking)
CLO#6: Describe, identify structures, and apply knowledge of the endocrine system.
CLO#7: Describe, identify structures, and apply knowledge of the cardiovascular and lymphatic systems.
CLO#8: Describe, identify structures, and apply knowledge of sexual reproduction in animals.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BI 101 - Introduction to Biology I

3 Credit(s)

Prerequisite(s):

MTH 60 or higher-level math course, or designated placement

Corequisite(s):

BI 101L

Course Description: Provides an overview of important principles, concepts and topics in biology. Designed for non-majors or those interested in learning more about biology. Science majors and pre-allied health professionals should take the 200-level biology series. Topics covered include atoms and molecules, basic chemistry, cell structure and function, cell respiration, cell division, photosynthesis, DNA structure, protein synthesis, and basic genetics.

Course Learning Outcomes:

CLO#1: List and describe the steps of the scientific method. Utilize the scientific method to solve biological problems.

CLO#2: Describe, identify structures, and apply knowledge of cells and organelles; differentiate between plant and animal cells.

CLO#3: Describe, identify, and apply knowledge of general chemistry including atomic structure, chemical bonds, and characteristics of the four biological molecules.

CLO#4: Describe and apply knowledge of enzymes and their role in biological systems.

CLO#5: Describe and apply knowledge of the processes of cellular respiration and photosynthesis and identify the cellular structures involved in either. (ILO: Quantitative Literacy and Reasoning)

CLO#6: Describe and apply knowledge of DNA and the processes of DNA replication and protein synthesis, identify the cellular structures and enzymes involved.

CLO#7: Describe, identify, and apply knowledge of the stages involved in mitosis and meiosis.

CLO#8: Describe and apply knowledge of the principles of heredity, solving genetics problems, and interpreting pedigrees.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BI 101L - Introduction to Biology I Lab

1 Credit(s)

Prerequisite(s):

MTH 60 or higher-level math course, or designated placement

Corequisite(s):

BI 101

Course Description: Provides an overview of important principles, concepts and topics in

biology. Designed for non-majors or those interested in learning more about biology. Science majors and pre-allied health professionals should take the 200-level biology series. Topics covered include atoms and molecules, basic chemistry, cell structure and function, cell respiration, cell division, photosynthesis, DNA structure, protein synthesis, and basic genetics.

Course Learning Outcomes:

- CLO#1: List and describe the steps of the scientific method. Utilize the scientific method to solve biological problems.
- CLO#2: Describe, identify structures, and apply knowledge of cells and organelles; differentiate between plant and animal cells.
- CLO#3: Describe, identify, and apply knowledge of general chemistry including atomic structure, chemical bonds, and characteristics of the four biological molecules.
- CLO#4: Describe and apply knowledge of enzymes and their role in biological systems.
- CLO#5: Describe and apply knowledge of the processes of cellular respiration and photosynthesis and identify the cellular structures involved in either. (ILO: Quantitative Literacy and Reasoning)
- CLO#6: Describe and apply knowledge of DNA and the processes of DNA replication and protein synthesis, identify the cellular structures and enzymes involved.
- CLO#7: Describe, identify, and apply knowledge of the stages involved in mitosis and meiosis.
- CLO#8: Describe and apply knowledge of the principles of heredity, solving genetics problems, and interpreting pedigrees.

Typical Required and Recommended Equipment and Materials: safety goggles, gloves; online students may need to purchase laboratory materials or computer simulations.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

BI 102 - Introduction to Biology II

3 Credit(s)

Prerequisite(s):

MTH 60 or higher-level math course, or designated placement

Corequisite(s):

BI 102L

Recommended Prerequisite(s):

BI 101 and BI 101L or BI 221Z

Course Description: Provides an overview of basic animal anatomy and physiology with a special interest to humans. Designed for non-majors or those interested in learning more about biology. Science majors and pre-allied health professionals should take the 200-level biology series. Topics and systems covered include homeostasis, hormones, digestive system, circulation, lymphatic system, circulatory system, immunity, nervous system, urinary system, and

reproduction.

Course Learning Outcomes:

- CLO#1: Describe and identify the basic structures and important characteristics of vertebrates.
- CLO#2: Describe and apply knowledge of homeostasis and the animal body.
- CLO#3: Describe, identify structures, and apply knowledge of the circulatory and lymphatic systems.
- CLO#4: Describe, identify structures, and apply knowledge of the respiratory system. (ILO: Quantitative Literacy and Reasoning)
- CLO#5: Describe, identify structures, and apply knowledge of the digestive system.
- CLO#6: Describe, identify structures, and apply knowledge of the urinary system.
- CLO#7: Describe, identify structures, and apply knowledge of the immune system.
- CLO#8: Describe, identify structures, and apply knowledge of the endocrine system and hormones.
- CLO#9: Describe, identify structures, and apply knowledge of the nervous system.
- CLO#10: Describe, identify structures, and apply knowledge of the male and female reproductive systems.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (33) hours per term.

BI 102L - Introduction to Biology II Lab

1 Credit(s)

Prerequisite(s):

MTH 60 or higher-level math course, or designated placement

Corequisite(s):

BI 102

Recommended Prerequisite(s):

BI 101 and BI 101L or BI 221Z

Course Description: Provides an overview of basic animal anatomy and physiology with a special interest to humans. Designed for non-majors or those interested in learning more about biology. Science majors and pre-allied health professionals should take the 200-level biology series. Topics and systems covered include homeostasis, hormones, digestive system, circulation, lymphatic system, circulatory system, immunity, nervous system, urinary system, and reproduction. Offered winter term.

Course Learning Outcomes:

- CLO#1: Describe and identify the basic structures and important characteristics of vertebrates.
- CLO#2: Describe and apply knowledge of homeostasis and the animal body.

- CLO#3: Describe, identify structures, and apply knowledge of the circulatory and lymphatic systems.
- CLO#4: Describe, identify structures, and apply knowledge of the respiratory system. (ILO: Quantitative Literacy and Reasoning)
- CLO#5: Describe, identify structures, and apply knowledge of the digestive system.
- CLO#6: Describe, identify structures, and apply knowledge of the urinary system.
- CLO#7: Describe, identify structures, and apply knowledge of the immune system.
- CLO#8: Describe, identify structures, and apply knowledge of the endocrine system and hormones.
- CLO#9: Describe, identify structures, and apply knowledge of the nervous system.
- CLO#10: Describe, identify structures, and apply knowledge of the male and female reproductive systems.

Typical Required and Recommended Equipment and Materials: Safety goggles, gloves; online students may need to purchase laboratory materials.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

BI 103 - Introduction to Biology III

3 Credit(s)

Prerequisite(s):

MTH 60 or higher-level math course, or designated placement

Corequisite(s):

BI 103L

Recommended Prerequisite(s):

BI 102 and BI 102L or BI 222Z (formerly offered as BI212 / BI 212L)

Course Description: Provides an overview of plants, microbes, fungi and ecology. Designed for non-majors or those interested in learning more about biology. Science majors and pre-allied health professionals should take the 200-level biology series. Topics covered include basic evolution, classification, microbes, fungi, plant structure and function, planet diversity, populations, communities, and human impact on the environment.

Course Learning Outcomes:

- CLO#1: Describe and apply knowledge of the basic ideas, concepts, and principles of evolution.
- CLO#2: Describe and apply knowledge of the basic ideas, concepts, and principles of classification.
- CLO#3: Describe, identify, and apply knowledge of the structure, function and organization of viruses, bacteria, and protists.
- CLO#4: Describe, identify, and apply knowledge of the structure, function, organization, and life cycles of fungi.

- CLO#5: Describe, identify, and apply knowledge of the structure, function, organization, and life cycles of plants.
- CLO#6: Describe, identify, and apply knowledge of the structure of populations and the dynamics of population growth.
- CLO#7: Describe, identify, and apply knowledge of community interactions and dynamics.
- CLO#8: Describe, identify, and apply knowledge of ecosystem structure, interactions, and dynamics.
- CLO#9: Describe, identify, and apply knowledge of biosphere structure, interactions, and dynamics including the effects of human activities on the planet. (ILO: Quantitative Literacy and Reasoning)
- CLO#10: Describe, identify, and apply knowledge of the major threats to biodiversity and what can be done to combat these threats.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BI 103L - Introduction to Biology III Lab

1 Credit(s)

Prerequisite(s):

MTH 60 or higher-level math course, or designated placement

Corequisite(s):

BI 103

Recommended Prerequisite(s):

BI 102 and BI 102L or BI 222Z (formerly offered as BI212 / BI 212L)

Course Description: Provides an overview of plants, microbes, fungi and ecology. Designed for non-majors or those interested in learning more about biology. Science majors and pre-allied health professionals should take the 200-level biology series. Topics covered include basic evolution, classification, microbes, fungi, plant structure and function, planet diversity, populations, communities, and human impact on the environment.

Course Learning Outcomes:

- CLO#1: Describe and apply knowledge of the basic ideas, concepts, and principles of evolution.
- CLO#2: Describe and apply knowledge of the basic ideas, concepts, and principles of classification.
- CLO#3: Describe, identify, and apply knowledge of the structure, function and organization of viruses, bacteria, and protists.
- CLO#4: Describe, identify, and apply knowledge of the structure, function, organization, and life cycles of fungi.
- CLO#5: Describe, identify, and apply knowledge of the structure, function, organization, and life cycles of plants.

- CLO#6: Describe, identify, and apply knowledge of the structure of populations and the dynamics of population growth.
- CLO#7: Describe, identify, and apply knowledge of community interactions and dynamics.
- CLO#8: Describe, identify, and apply knowledge of ecosystem structure, interactions, and dynamics.
- CLO#9: Describe, identify, and apply knowledge of biosphere structure, interactions, and dynamics including the effects of human activities on the planet. (ILO: Quantitative Literacy and Reasoning)
- CLO#10: Describe, identify, and apply knowledge of the major threats to biodiversity and what can be done to combat these threats.

Typical Required and Recommended Equipment and Materials: Safety goggles, gloves; online students may need to purchase laboratory materials or computer simulations.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

BI 112 - Biology for Health Professions

3 Credit(s)

Prerequisite(s):

MTH 60 or higher-level math course, or designated placement

Corequisite(s):

BI 112L

Recommended Prerequisite(s):

CHEM 104, CHEM 104L

Course Description: This course is an introduction to the science of cell biology for students intending to take Anatomy and Physiology (BI 231, BI 232, BI 233) and Microbiology (BI 234). It presents an introduction to the study of cellular chemistry, cell structure and function (including membrane transport, cell communication, cellular respiration, and cell division), as well as principles of inheritance.

Course Learning Outcomes:

- CLO#1: Describe and identify the characteristics of living things.
- CLO#2: Describe, identify, and apply knowledge of inorganic and organic chemistry: elements and atoms, chemical bonds and chemical reactions, properties of water, pH, and classification of organic compounds and their functional groups.
- CLO#3: Describe and identify the components of a typical eukaryotic and prokaryotic cell, being able to compare and contrast between various types of cells.
- CLO#4: Describe and identify the components of a cell membrane and mechanisms by which materials can enter or leave a cell and the energy requirements of each.
- CLO#5: Describe and apply knowledge of the role and stages of cellular communication in an organism and identify selected types of cell receptors.

- CLO#6: Describe and apply knowledge of the structure and function of enzymes and their role in cellular metabolism.
- CLO#7: Describe and apply knowledge of the processes of aerobic respiration and fermentation and identify the cellular structures involved.
- CLO#8: Describe, identify, and apply knowledge of the stages and products of mitosis and meiosis.
- CLO#9: Describe and apply knowledge of the principles of heredity and be able to solve genetics problems. (ILO: Information Literacy)
- CLO#10: Describe and apply knowledge of the processes of DNA replication, protein synthesis and gene expression. Be able to identify the cellular structures and enzymes involved.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BI 112L - Biology for Health Professions Lab

1 Credit(s)

Prerequisite(s):

MTH 60 or higher-level math course, or designated placement.

Recommended Prerequisite(s):

CHEM 104, CHEM 104L

Course Description: This course is the lab associated with BI 112 , an introduction to the science of cell biology for students intending to take Anatomy and Physiology (BI 231, BI 232, BI 233) and Microbiology (BI 234). It presents an introduction to the study of cellular chemistry, cell structure and function (including membrane transport, cell communication, cellular respiration, and cell division), as well as principles of inheritance.

Course Learning Outcomes:

- CLO#1: Identify and apply specific study methods and tools when learning scientific concepts.
- CLO#2: Identify the major tools used in biology labs and be able to use them correctly.
- CLO#3: Describe, identify, and apply knowledge of inorganic and organic chemistry: elements and atoms, chemical bonds and chemical reactions, properties of water, pH, and classification of organic compounds and their functional groups. (ILO: Quantitative Literacy and Reasoning)
- CLO#4: Describe and identify the components of a typical eukaryotic and prokaryotic cell, being able to compare and contrast between various types of cells.
- CLO#5: Describe and identify the components of a cell membrane and mechanisms by which materials can enter or leave a cell and the energy requirements of each.
- CLO#6: Describe and apply knowledge of the role and stages of cellular communication in an organism and identify selected types of cell receptors.
- CLO#7: Describe and apply knowledge the structure and function of enzymes and their role in cellular metabolism.

CLO#8: Describe and apply knowledge of the processes of aerobic respiration and identify the cellular structures involved.

CLO#9: Describe, identify, and apply knowledge of the stages and products of mitosis and meiosis.

CLO#10: Describe and apply knowledge of the principles of heredity and be able to solve genetics problems.

CLO#11: Describe and apply knowledge of the processes of DNA replication, protein synthesis and gene expression. Be able to identify the cellular structures and enzymes involved.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

BI 121 - Elem Anatomy - Physiology I

3 Credit(s)

Prerequisite(s):

MTH 20 or higher-level math course, or designated placement

Corequisite(s):

BI 121L

Recommended Prerequisite(s):

MTH 60 or MTH 102CT

Course Description: This is the first term of a two-term sequence. Students must be concurrently enrolled in the laboratory portion of this course. This course covers basic anatomy and physiology for Medical Office Assistant, Medical Health Technician, Massage Therapy, Medical Assistant, Medical Transcription, and Practical Nursing. Topics covered include body organization, basic chemistry, cell structure and function, tissues, integumentary system, skeletal system, muscular system, and nervous system.

Course Learning Outcomes:

CLO#1: Describe and identify specific terminology associated with body geography; surface and internal anatomy; and control systems.

CLO#2: Describe histological tissue types by identification and function

CLO#3: Describe, identify structures, and apply knowledge of the integumentary system.

CLO#4: Describe, identify structures, and apply knowledge of osseous tissue, bone structure, and the entire human skeleton.

CLO#5: Describe, identify structures, and apply knowledge of the articulations and movements of the human body.

CLO#6: Describe, identify structures, and apply knowledge of muscle tissue physiology and selected muscles of the human body. (ILO: Critical Thinking)

CLO#7: Describe, identify structures, and apply knowledge of the nervous system and sense organs, focusing on neuron anatomy, neurophysiology and anatomy of special sense organs.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BI 121L - Elem Anatomy - Physiology I Lab

1 Credit(s)

Prerequisite(s):

MTH 20 or higher-level math course, or designated placement

Corequisite(s):

BI 121

Recommended Prerequisite(s):

MTH 60 or MTH 102CT

Course Description: This is the first term of a two-term sequence. Students must be concurrently enrolled in the laboratory portion of this course. This course covers basic anatomy and physiology for Medical Office Assistant, Medical Health Technician, Massage Therapy, Medical Assistant, Medical Transcription, and Practical Nursing. Topics covered include body organization, basic chemistry, cell structure and function, tissues, integumentary system, skeletal system, muscular system, and nervous system. Includes a laboratory component that requires dissection.

Course Learning Outcomes:

CLO#1: Describe and identify specific terminology associated with body geography; surface and internal anatomy; and control systems.

CLO#2: Describe and identify histological tissue types and their functions. by identification and function.

CLO#3: Describe, identify structures, and apply knowledge of the integumentary system.

CLO#4: Describe, identify structures, and apply knowledge of osseous tissue, bone structure, and the entire human skeleton.

CLO#5: Describe, identify structures, and apply knowledge of the articulations and movements of the human body.

CLO#6: Describe, identify structures, and apply knowledge of muscle tissue physiology and selected muscles of the human body. (ILO: Critical Thinking)

CLO#7: Describe, identify structures, and apply knowledge of the nervous system and sense organs, focusing on neuron anatomy, neurophysiology and anatomy of special sense organs.

Typical Required and Recommended Equipment and Materials: safety goggles, gloves

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

BI 122 - Intro Anatomy - Physiology II

3 Credit(s)

Prerequisite(s):

BI 121 and BI 121L or BI 231 and BI 231L

Corequisite(s):

BI 122L

Recommended Prerequisite(s):

AH 100 and CHEM 104, CHEM 104L

Course Description: This is the second term of a two-term sequence. Students must be concurrently enrolled in the laboratory portion of this course. This course covers basic anatomy and physiology for Massage Therapy, Medical Assistant and Practical Nursing. Topics covered include the endocrine systems, blood, cardiovascular system, lymphatic system, respiratory system, digestive system, urinary system and reproductive system.

Course Learning Outcomes:

- CLO#1: Describe, identify structures, and apply knowledge of the endocrine system.
- CLO#2: Describe, identify components, determine physical properties and apply knowledge of blood. (ILO: Quantitative Literacy and Reasoning)
- CLO#3: Describe, identify structures, and apply knowledge of the cardiovascular system.
- CLO#4: Describe, identify structures, and apply knowledge of the lymphatic system and immunity. (ILO: Critical Thinking)
- CLO#5: Describe, identify structures, and apply knowledge of the respiratory system.
- CLO#6: Describe, identify structures, and apply knowledge of the digestive system.
- CLO#7: Describe, identify structures, and apply knowledge of the urinary system.
- CLO#8: Describe, identify structures, and apply knowledge of the reproductive system.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BI 122L - Intro Anatomy - Physiology II Lab

1 Credit(s)

Prerequisite(s):

BI 121 and BI 121L or BI 231 and BI 231L

Corequisite(s):

BI 122

Recommended Prerequisite(s):

AH 100 and CHEM 104, CHEM 104L

Course Description: This is the second term of a two-term sequence. Students must be concurrently enrolled in the laboratory portion of this course. This course covers basic anatomy and physiology for Massage Therapy, Medical Assistant, and Practical Nursing. Topics covered include the endocrine systems, blood, cardiovascular system, lymphatic system, respiratory system, digestive system, urinary system and reproductive system. Includes a laboratory component that requires dissection.

Course Learning Outcomes:

- CLO#1: Describe, identify structures, and apply knowledge of the endocrine system.
- CLO#2: Describe, identify components, determine physical properties and apply knowledge of blood. (ILO: Quantitative Literacy and Reasoning)
- CLO#3: Describe, identify structures, and apply knowledge of the cardiovascular system.
- CLO#4: Describe, identify structures, and apply knowledge of the lymphatic system and immunity. (ILO: Critical Thinking)
- CLO#5: Describe, identify structures, and apply knowledge of the respiratory system.
- CLO#6: Describe, identify structures, and apply knowledge of the digestive system.
- CLO#7: Describe, identify structures, and apply knowledge of the urinary system.
- CLO#8: Describe, identify structures, and apply knowledge of the reproductive system.

Typical Required and Recommended Equipment and Materials: safety goggles, gloves

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

BI 199 - Special Studies - Biology

Var. (1-3) Credit(s)

Prerequisite(s):

May vary depending on subject offerings.

Course Description: Selected topics of study in biology are offered on demand through workshops, seminars, lecture, lab, and/or independent study format. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Individual course outcomes and ILOs will be developed at the time the proposed class is designed. Typical assessments will include but are not limited to homework exercises, discussion, quizzes, examinations, course discussions, and research papers.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

BI 221Z - Principles of Biology - Cells

5 Credit(s)

Prerequisite(s):

MTH 60 or higher-level math course, or designated placement

Recommended Prerequisite(s): CHEM 104, CHEM 104L

Course Description: Explores fundamental biological concepts and theories about the cellular and molecular basis of life including cell structure and function, metabolism, genetic basis of inheritance and how information flows from DNA to proteins, with a focus on the iterative process of science. Intended for science majors.

Course Learning Outcomes:

- CLO#1: Apply the iterative process of science to generate and answer biological questions by analyzing data and drawing conclusions that are based on empirical evidence and current scientific understanding.
- CLO#2: Use evidence to develop informed opinions on contemporary biological issues and explain the implications of those issues on society.
- CLO#3: Describe the structure and related functions of major classes of biomolecules.
- CLO#4: Differentiate cell components and their functions, emphasizing them as a system of interacting parts.
- CLO#5: Compare and contrast anabolic (photosynthesis) and catabolic (respiration and fermentation) pathways emphasizing the transformation of energy and matter. (ILO: Critical Thinking)
- CLO#6: Articulate how cells store, use, and transmit genetic information.
- CLO#7: Explain how mutation and genetic recombination contribute to phenotypic variation and evolution.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

LECTURE PORTION: A required State minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term. LAB PORTION: A required State minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

BI 222Z - Principles of Biology - Organisms

5 Credit(s)

Prerequisite(s):

BI 221Z (formerly offered as BI 211 / BI 211L), and

MTH 60 or higher-level math course, or designated placement

Recommended Prerequisite(s): CHEM 104, CHEM 104L

Course Description: Explores fundamental biological concepts and theories about the structure and function of diverse organisms (including plants and animals), evolution and development, transformation of energy and matter, and body systems at a multicellular organismal level. Intended for science majors.

Course Learning Outcomes:

CLO#1: Apply the iterative process of science to generate and answer biological questions by analyzing data and drawing conclusions that are based on empirical evidence and current scientific understanding.

CLO#2: Use evidence to develop informed opinions on contemporary biological issues and explain the implications of those issues on society.

CLO#3: Explain how morphology relates to physiology across diverse organisms.

CLO#4: Describe how biological systems detect and respond to different internal/external environmental conditions through feedback.

CLO#5: Compare and contrast strategies for achieving homeostasis.

CLO#6: Explain how developmental and environmental processes influence the evolution of structures, functions, and life cycles across diverse organisms. (ILO: Communication)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

LECTURE PORTION: A required State minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term. LAB PORTION: A required State minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

BI 223Z - Principles of Bio - Ecology and Evo

5 Credit(s)

Prerequisite(s):

BI 221Z (formerly offered as BI 211 / BI 211L), or BI 222Z (formerly offered as BI212 / BI212L), and

MTH 60 or higher-level math course, or designated placement

Recommended Prerequisite(s): CHEM 104, CHEM 104L

Course Description: Explores the unity and diversity of life through evolutionary mechanisms and relationships, and adaptation to the environment. Examines population, community, and ecosystem ecology. Intended for science majors.

Course Learning Outcomes:

CLO#1: Apply the iterative process of science to generate and answer biological questions by analyzing data and drawing conclusions that are based on empirical evidence and current scientific understanding.

- CLO#2: Use evidence to develop informed opinions on contemporary biological issues and explain the implications of those issues on society.
- CLO#3: Provide evidence for phylogenetic relationships which illustrate the unity and diversity of life.
- CLO#4: Describe how adaptation, development, mutation, and the environment affect organismal evolution.
- CLO#5: Apply mathematical models to describe how populations change through time in relation to biotic and abiotic factors. (ILO: Quantitative Literacy, and Reasoning)
- CLO#6: Explain how organisms and their environments affect each other across different temporal and spatial scales.
- CLO#7: Interpret models explaining the flow of energy and cycling of matter in ecosystems.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

LECTURE PORTION: A required State minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term. LAB PORTION: A required State minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

BI 231 - Anatomy and Physiology I

3 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

BI 112 / BI 112L or BI 221Z (formerly offered as BI 211 / BI 211L)

Corequisite(s):

BI 231L

Recommended Prerequisite(s):

CHEM 104, CHEM 104L

Course Description: This is the first term of a three-term sequence. This course benefits students entering health professions, physical education and pre-professional medical or veterinary degrees. Emphasis is placed on the structure, function and regulatory mechanisms of the tissues, skin, skeleton, muscles and neurons. Includes a laboratory component that requires dissection.

Course Learning Outcomes:

- CLO#1: Describe and identify specific terminology associated with body geography; surface and internal anatomy; and control systems.
- CLO#2: Describe histological tissue types by identification and function.
- CLO#3: Describe and identify structures within the integumentary system.

- CLO#4: Describe and identify structures of osseous tissue, bone structure, and the entire human skeleton.
- CLO#5: Describe and identify structures of the articulations and movements of the human body.
- CLO#6: Describe and identify structures of muscle tissue physiology and selected muscles of the human body. (ILO: Critical Thinking)
- CLO#7: Describe and identify structures of the nervous system, focusing on neuron anatomy and neurophysiology.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BI 231L - Anatomy and Physiology I Lab

1 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required, and

BI 112 / BI 112L or BI 221Z (formerly offered as BI 211 / BI 211L)

Corequisite(s):

BI 231

Recommended Prerequisite(s):

CHEM 104, CHEM 104L

Course Description: This is the first term of a three-term sequence. This course benefits students entering health professions, physical education and pre-professional medical or veterinary degrees. Emphasis is placed on the structure, function and regulatory mechanisms of the tissues, skin, skeleton, muscles and neurons. Includes a laboratory component that requires dissection.

Course Learning Outcomes:

- CLO#1: Describe and identify specific terminology associated with body geography; surface and internal anatomy; and control systems.
- CLO#2: Describe histological tissue types by identification and function.
- CLO#3: Describe and identify structures of the integumentary system.
- CLO#4: Describe and identify structures of osseous tissue, bone structure, and the entire human skeleton.
- CLO#5: Describe and identify structures of the articulations and movements of the human body.
- CLO#6: Describe and identify structures of muscle tissue physiology and selected muscles of the human body. (ILO: Critical Thinking)

CLO#7: Describe and identify structures of the nervous system, focusing on neuron anatomy and neurophysiology.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

BI 232 - Anatomy and Physiology II

3 Credit(s)

Prerequisite(s):

BI 231 and BI 231L

Corequisite(s):

BI 232L

Recommended Prerequisite(s):

CHEM 104, CHEM 104L

Course Description: This is the second term of a three-term sequence. This course benefits students entering health professions, physical education and pre-professional medical or veterinary degrees. Emphasis is placed on the structure, function and regulatory mechanisms of the nervous, endocrine, special sense and circulatory systems. Includes a laboratory component that requires dissection.

Course Learning Outcomes:

CLO#1: Describe, identify structures, and apply knowledge of the nervous system, focusing on the structure and function of the spinal cord, brain, and autonomic nervous system.

CLO#2: Describe, identify structures, and apply knowledge of the special senses, including olfaction, gustation, vision, hearing, and equilibrium.

CLO#3: Describe, identify structures, and apply knowledge of the structure and function of the endocrine system.

CLO#4: Describe, identify structures, and apply knowledge of the blood and its components and functions.

CLO#5: Describe, identify structures, and apply knowledge of the human heart, focusing on structure and function.

CLO#6: Describe, identify structures, and apply knowledge of the vascular system, focusing on structure and function of blood vessels and blood pressure. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: safety goggles, gloves

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term

BI 232L - Anatomy and Physiology II Lab

1 Credit(s)

Prerequisite(s):

BI 231 and BI 231L

Corequisite(s):

BI 232

Recommended Prerequisite(s):

CHEM 104, CHEM 104L

Course Description: This is the second term of a three-term sequence. This course benefits students entering health professions, physical education and pre-professional medical or veterinary degrees. Emphasis is placed on the structure, function and regulatory mechanisms of the nervous, endocrine, special sense and circulatory systems. Includes a laboratory component that requires dissection.

Course Learning Outcomes:

CLO#1: Describe, identify structures, and apply knowledge of the nervous system, focusing on the structure and function of the spinal cord, brain, and autonomic nervous system.

CLO#2: Describe, identify structures, and apply knowledge of the special senses, including olfaction, gustation, vision, hearing, and equilibrium.

CLO#3: Describe, identify structures, and apply knowledge of the structure and function of the endocrine system.

CLO#4: Describe, identify structures, and apply knowledge of the blood and its components and functions.

CLO#5: Describe, identify structures, and apply knowledge of the human heart, focusing on structure and function.

CLO#6: Describe, identify structures, and apply knowledge of the vascular system, focusing on structure and function of blood vessels and blood pressure. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: safety goggles, gloves

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

BI 233 - Anatomy and Physiology III

3 Credit(s)

Prerequisite(s):

BI 231 and BI 231L

Corequisite(s):

BI 233L

Recommended Prerequisite(s):

CHEM 104, CHEM 104L

Course Description: This is the third term of a three-term sequence. This course benefits students entering health professions, physical education and pre-professional medical or veterinary degrees. Emphasis is placed on the structure, function and regulatory mechanisms of the respiratory, lymphatic, immune, digestive, urinary, reproductive systems and acid/base and electrolyte balance. Includes a laboratory component that requires dissection.

Course Learning Outcomes:

CLO#1: Describe, identify structures, and apply knowledge of the lymphatic system.

CLO#2: Describe, identify structures, and apply knowledge of the respiratory system.

CLO#3: Describe, identify structures, and apply knowledge of the digestive system.

CLO#4: Describe, identify structures, and apply knowledge of the urinary system.

CLO#5: Describe, identify structures, and apply knowledge of the regulation of fluid, electrolyte, and acid-base balance in the human body. (ILO: Critical Thinking)

CLO#6: Describe, identify structures, and apply knowledge of the male and female reproductive systems.

Typical Required and Recommended Equipment and Materials: safety goggles, gloves

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BI 233L - Anatomy and Physiology III Lab

1 Credit(s)

Prerequisite(s):

BI 231 and BI 231L

Corequisite(s):

BI 233

Recommended Prerequisite(s):

CHEM 104, CHEM 104L

Course Description: This is the third term of a three-term sequence. This course benefits students entering health professions, physical education and pre-professional medical or veterinary degrees. Emphasis is placed on the structure, function and regulatory mechanisms of the respiratory, lymphatic, immune, digestive, urinary, reproductive systems and acid/base and electrolyte balance. Includes a laboratory component that requires dissection.

Course Learning Outcomes:

CLO#1: Describe, identify structures, and apply knowledge of the lymphatic system.

CLO#2: Describe, identify structures, and apply knowledge of the respiratory system.
CLO#3: Describe, identify structures, and apply knowledge of the digestive system.
CLO#4: Describe, identify structures, and apply knowledge of the urinary system.
CLO#5: Describe, identify structures, and apply knowledge of the regulation of fluid, electrolyte, and acid-base balance in the human body. (ILO: Critical Thinking)
CLO#6: Describe, identify structures, and apply knowledge of the male and female reproductive systems.

Typical Required and Recommended Equipment and Materials: safety goggles, gloves

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

BI 234 - Microbiology

3 Credit(s)

Prerequisite(s):

BI 112 and BI 112L, or BI 221Z (formerly offered as BI211 / BI211L)

Corequisite(s):

BI 234L

Recommended Prerequisite(s):

CHEM 104, CHEM 104L

Course Description: Studies microorganisms, focusing primarily on bacteria and viruses. Covers the structure, function, metabolism, genetics and classification of bacteria and archaea. Also includes topics of microbial control, viral replication, epidemiology and vaccinations. Students must enroll in lecture and laboratory sections.

Course Learning Outcomes:

CLO#1: Describe and apply knowledge of the history and development of the microbiology discipline.
CLO#2: Describe, identify structures, and apply knowledge of prokaryotic organisms, including structure and function relationships.
CLO#3: Describe, identify structures, and apply knowledge of prokaryotic metabolism.
CLO#4: Describe and apply knowledge of basic prokaryote growth and culturing requirements, including biotic and abiotic factors.
CLO#5: Describe, identify structures, and apply knowledge of microbial genetics.
CLO#6: Describe, identify structures, and apply knowledge of methods of controlling microbial growth in the environment and body.
CLO#7: Describe, identify structures, and apply knowledge of viruses, viroids, and prions.
CLO#8: Describe and apply knowledge of epidemiology, disease transmission, and health-acquired infections. (ILO: Critical Thinking)
CLO#9: Describe and apply knowledge of basic immune response and vaccine production.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BI 234L - Microbiology Lab

1 Credit(s)

Prerequisite(s):

BI 112 and BI 112L, or BI 221Z (formerly offered as BI211 / BI211L)

Corequisite(s):

BI 234

Recommended Prerequisite(s):

CHEM 104, CHEM 104L

Course Description: Studies microorganisms, focusing primarily on bacteria and viruses. Covers the structure, function, metabolism, genetics and classification of bacteria and archaea. Also includes topics of microbial control, viral replication, epidemiology and vaccinations. Students must enroll in lecture and laboratory sections.

Course Learning Outcomes:

- CLO#1: Apply knowledge of prokaryotic organisms, including structure and function relationships.
- CLO#2: Apply knowledge of prokaryotic metabolism.
- CLO#3: Apply knowledge of basic prokaryote growth and culturing requirements, including biotic and abiotic factors.
- CLO#4: Apply knowledge of microbial genetics.
- CLO#5: Apply knowledge of methods of controlling microbial growth in the body.
- CLO#6: Develops and uses appropriate lab skills when transferring, culturing, and interpreting data from living bacterial cultures. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Safety Goggles, Nitrile Gloves

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

Business Technology

BT 103 - Writing for Business and Industry

4 Credit(s)

Course Description: This course teaches students to produce clear, professionally written communication tailored for various industries. Students will learn the importance of correct spelling, effective proofreading, and comprehensive writing techniques that enhance their communication, while emphasizing the importance of professionalism. Students will also explore the impact of effective written communication on client relationships and workplace efficiency.

Course Learning Outcomes:

- CLO#1: Write clear, concise, and professional business documents such as emails, job estimates, proposals, and reports.
- CLO#2: Utilize correct industry-specific terminology in written communication, ensuring clarity and professionalism when addressing stakeholders.
- CLO#3: Create both formal and informal communications for various industries. (ILO: Critical Thinking)
- CLO#4: Develop cultural competence and inclusivity in professional communication by applying business writing strategies that acknowledge diverse perspectives, respect individual differences, and foster equitable interactions in the workplace. (ILO: Equity, Diversity, Inclusion, and Global Consciousness)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

BT 105 - Business Ethics

3 Credit(s)

Prerequisite(s):

WR 115 or higher-level writing course

WR 115Q as required

Course Description: Business ethics are important skills in the business environment. Developing the ability to recognize and analyze ethical situations is becoming more critical for successful business organizations. This course explores the multi-level effects of business decisions, emphasizing contemporary topics in business ethics.

Course Learning Outcomes:

- CLO#1: Identify the guiding principles of business ethics.
- CLO#2: Identify the components of a successful ethical corporate culture.
- CLO#3: Explain the elements of ethical decision-making and leadership.
- CLO#4: Explain how ethics can impact diversity. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BT 106 - Advertising

3 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: This course will provide insight into the role of advertising and integrated marketing communications. Traditional and emerging advertising mediums will be covered in detail, along with various aspects and implications that advertising can have on a business.

Course Learning Outcomes:

CLO#1: Analyze the role of Integrated Marketing Communications within a business.

CLO#2: Explain the market segmentation process.

CLO#3: Identify the various aspects that affect consumer behavior. (ILO: Critical Thinking)

CLO#4: Identify different message strategies.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BT 111 - Conflict Management

2 Credit(s)

Prerequisite(s):

WR 115 or higher-level writing course

WR 115Q as required

Course Description: Provides students with the skills to turn conflict into a positive experience. Conflict is inevitable in interpersonal relationships, especially in the workplace, but the ability to constructively handle conflict and manage interpersonal differences will enhance relationships with your co-workers, supervisors, and subordinates. Students will identify what conflict is, positive and negative aspects of conflict, types and sources of conflict, and strategies in dealing with conflict.

Course Learning Outcomes:

CLO#1: Identify common sources and types of conflict found in the workplace.

CLO#2: Identify the positive and negative aspects of conflict in the workplace.

CLO#3: Differentiate among various strategies used to effectively deal with conflict. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

BT 112 - Leadership Essentials

2 Credit(s)

Prerequisite(s):

WR 115 or higher-level writing course

WR 115Q as required

Course Description: This course offers a comprehensive exploration of essential leadership skills tailored for professionals. Students will examine the characteristics of effective leaders, develop their emotional intelligence, and learn to navigate the skills required at various levels of leadership.

Course Learning Outcomes:

CLO#1: Explain the characteristics of an effective leader.

CLO#2: Explain the importance of emotional intelligence.

CLO#3: Compare and contrast the different skills needed for various levels of leadership.

(ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of 20 hours and a standard RCC delivery of (20) lecture hours per term, not to exceed (22) hours per term.

BT 121 - Digital Marketing and e-Commerce

3 Credit(s)

Prerequisite(s):

BT 103 and BA 131

Note: If on the Business Marketing AAS, take this course before BA 243.

Course Description: This course provides an in-depth introduction to the fields of digital marketing and e-commerce and how the Internet is utilized to improve business profit. Students will explore how the Internet serves as a powerful marketing tool, learning to differentiate between various e-commerce types and channels. The course covers key concepts in website design, allowing students to compare and contrast effective approaches, and emphasizes the critical role of search engine optimization (SEO) in driving online visibility.

Course Learning Outcomes:

CLO#1: Differentiate between the different e-commerce types and channels.

- CLO#2: Contrast and compare the effectiveness of different website designs. (ILO: Communication)
- CLO#3: Explain the importance of Search Engine Optimization (SEO) in website development.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BT 122 - AI Literacy for Business

2 Credit(s)

Prerequisite(s):

WR 115 or higher-level writing course

WR 115Q as required

BA 131

Course Description: This course provides an in-depth exploration of artificial intelligence (AI) and its transformative impact on business. Students will gain essential AI literacy skills, enabling them to understand, evaluate, and consider the ethical and strategic implications of AI applications for business decision-making.

Course Learning Outcomes:

CLO #1: Analyze and evaluate AI technologies and applications to understand their impact on various business functions. (ILO: Critical Thinking)

CLO #2: Assess and apply AI applications for ethical decision-making, responsible data use, and the enhancement of business processes.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required State minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

BT 123 - Introduction to Supervision

3 Credit(s)

Prerequisite(s):

BA 120

WR 115 or higher-level writing course

WR 115Q as required

Course Description: Focuses on skills and techniques for current and potential supervisors with

emphasis on day-to-day strategies that first-line managers use when directing and evaluating employees. Formerly offered as BT102.

Course Learning Outcomes:

- CLO#1: Identify the basic concepts used in planning and decision making for supervisors.
- CLO#2: Evaluate elements of motivation, leadership, team building and conflict management.
- CLO#3: Explain the components and benefits of Selection, Retention, and Performance Management Processes in the workplace.
- CLO#4: Describe and analyze current changes impacting supervisors in the workplace. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BT 160 - Business Math

4 Credit(s)

Prerequisite(s):

MTH 20 or designated placement

Course Description: This course introduces math applications used in business including percentages, fractions, interest (compounding, present value, future value), and other common business applications including business statistics.

Course Learning Outcomes:

- CLO#1: Solve practical business problems using fundamental mathematical operations such as percentages, ratios, and proportions.
- CLO#2: Apply basic statistical methods to summarize data, make predictions, and evaluate trends relevant to business scenarios.
- CLO#3: Correctly calculate interest, present and future values, and payments related to loans, investments, and annuities commonly encountered in business and personal finance. (ILO: Quantitative Literacy and Reasoning)
- CLO#4: Utilize a financial calculator to perform financial calculations.

Typical Required and Recommended Equipment and Materials: Calculator: Texas Instruments-BA II Plus or TI-83 or TI-84.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

BT 168 - Advanced Applications - Word

3 Credit(s)

Prerequisite(s):

BA 131 or CIS 120 (formerly offered as CS120)

Course Description: Provides in-depth training in Microsoft Word 365/2021 software. Covers the use of creating, editing, and formatting functions for various business documents. Other topics include formatting pages, headers, footers, columns, advanced character formatting, tables, charts, merged correspondence, managing shared documents, graphics, references, and specialized tables. Students should plan on using a Windows PC for this course. Formerly offered as CIS125WW.

Course Learning Outcomes:

CLO#1: Demonstrate knowledge of the ribbon, dialog boxes and keyboard shortcuts in Microsoft Word 365/2021.

CLO#2: Identify the correct software terminology to describe a variety of features and tools in Microsoft Word 365/2021.

CLO#3: Utilize the correct features in Microsoft Word 365/2021 to create balanced and professional documents with the correct layout of text and graphics.

CLO#4: Create, edit, and format various business documents. (ILO: Communication)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BT 178 - Customer Service

3 Credit(s)

Prerequisite(s):

WR 115 or higher-level writing course

WR 115Q as required

BA 120 or PSY 101

Course Description: This course introduces essential principles of exceptional customer service in today's competitive global market. Topics include customer loyalty, service quality, recovery strategies, managing difficult customers, active listening, and effective communication with diverse groups. Students will also learn about giving constructive feedback, and measuring service performance-key skills for building customer relationships and supporting business success.

Course Learning Outcomes:

CLO#1: Explain the role that exceptional customer service plays in maximizing profits and success of a business.

CLO#2: Develop strategies to deal with service failures, mistakes, or difficult customers.

CLO#3: Explain the benefits of communicating effectively with a diverse customer population. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BT 204 - Project Management

3 Credit(s)

Prerequisite(s):

BA 131

WR 115 (and WR 115Q as required based on placement), or higher-level writing course

Course Description: This foundational course covers concepts, key terminology, and skills that are used by managers to propose, plan, secure resources, budget, and lead teams to successful completion of their projects.

Course Learning Outcomes:

CLO#1: Define key project management terms.

CLO#2: Analyze the environment in which projects operate.

CLO#3: Identify a generalized view of how the various project management processes commonly interact.

CLO#4: Interpret the role of the project manager. (ILO: Communication)

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC deliver of 33 lecture hours per term, not to exceed 36 hours per term.

BT 250 - Entrepreneurship

3 Credit(s)

Prerequisite(s):

BA 101Z and BT 103

Course Description: This class expands on the foundation in BA 101Z. It acquaints students with the principles related to the field of small business and entrepreneurship. Students will describe the entrepreneur's mindset; define the characteristics of successful entrepreneurs and debunk common myths about them; and identify sources of successful business ideas. Students will also be able to differentiate among various small business entry strategies, assess marketing techniques used by entrepreneurs, compare/contrast sources of financing, and analyze the advantages and disadvantages of franchising as a means of starting a business.

Course Learning Outcomes:

- CLO#1: Define entrepreneurship and discuss the most commonly cited characteristics exhibited by successful small business owners.
- CLO#2: Summarize the sources of small business financing and compare/contrast the pros and cons of each source. (ILO: Information Literacy)
- CLO#3: Identify critical factors for entrepreneurial success.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

BT 265 - Writing a Business Plan - Capstone

3 Credit(s)

Prerequisite(s):

BA 101Z, BA 169Z, BA 211Z, BA 214, BA 223, and BT 168

Course Description: This final capstone project allows students to integrate the four functional areas of business (accounting, finance, management, and marketing) by creating and presenting a fully developed, professional business plan and competitive strategy. The final business plan will follow the format of standard business plans, including the executive summary, company description, industry analysis, management plan, marketing plan, operational plan and financial plan. Students will also present their business plans, using appropriate technology.

Course Learning Outcomes:

- CLO#1: Research relevant industries and markets by using online research tools, communicating directly with companies and by analyzing available financial statements.
- CLO#2: Compare and contrast the pros and cons of a sole proprietorship, partnership, and corporate forms of ownership.(ILO Critical Thinking)
- CLO#3: Deliver a concise and compelling presentation that "sells" the business plan.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

Career and Guidance

CG 100 - College Success and Survival

2 Credit(s)

Course Description: Introduces students to many aspects of academic success. It centers on strategies for major identification, motivation towards completion, and good study habits. Additionally, it offers college resources and tools. This class will also focus on achieving positive outcomes in the academic environment through networking, navigating college systems, and positive behavior and communication skills. Students will receive guidance on adjusting

personally and socially for college success. The focus is on college terms and information; academic major focus; degree choice and requirements, balancing work, school and home demands; financial planning; forming study partnerships; and stress and time management.

Course Learning Outcomes:

- CLO#1: Identify learning styles and develop study skills. (ILO: Communication)
- CLO#2: Describe a focused mindset and recognize motivation theories.
- CLO#3: Discuss and practice effective time management skills.
- CLO#4: Identify college resources and engage in campus life opportunities.
- CLO#5: Research financial aid options and discuss financial literacy.
- CLO#6: Set effective, attainable goals.
- CLO#7: Complete career research to identify a career pathway to become major secure.
- CLO#8: Utilize program information to develop two-term planner and set educational goal.
(ILO: Critical Thinking)
- CLO#9: Identify self-defeating behaviors and outline steps towards changing them.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

CG 105 - Scholarship Essay Writing

1 Credit(s)

Course Description: Teaches students to write effective scholarship essays and develop their own personal essays from initial draft to final essay format. This class explores resources and conducts research for funding college education.

Course Learning Outcomes:

- CLO#1: Develop writing skills in relation to scholarship essay prompts. (ILO: Communication)
- CLO#2: Critically analyze and offer constructive feedback to others' writing.
- CLO#3: Identify potential scholarship opportunities.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

CG 111 - Study Skills for Math Success

1 Credit(s)

Corequisite(s):

Students must be concurrently enrolled in a math course at RCC.

Course Description: Provides students information, techniques, strategies and skills helpful in becoming more efficient in time management, studying, listening, note taking, exams, and stress

reduction; addresses basic principles of psychology of learning and assists in creating positive tools towards successful math completion.

Course Learning Outcomes:

- CLO#1: Apply effective note-taking and test-taking strategies to math courses. (ILO: Communication)
- CLO#2: Recognize the psychology of math difficulties, irrational belief, and identify other factors that impact stress response.
- CLO#3: Demonstrate principles of time management and constructive study habits.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per one term, not to exceed (12) hours per term.

CG 114 - Financial Survival for Students

1 Credit(s)

Course Description: Provides students with general information and strategies on making fiscally wise choices for their education and future.

Course Learning Outcomes:

- CLO#1: Identify different types of financial resources available for college students.
- CLO#2: Construct a monthly budget and build an educational financial plan. (ILO: Communication)
- CLO#3: Describe the SAP policy.
- CLO#4: Access and personalize information on educational debt and repayment.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

CG 140 - Career Development

3 Credit(s)

Course Description: Provides tools needed to make an informed career decision and set educational goals. The course includes self-assessment tools, career exploration options, guest speakers and field trips. Use of the RCC website is included.

Course Learning Outcomes:

- CLO#1: Identify personal values, skills and abilities. Explore and utilize career and personality assessment tools.
- CLO#2: Identify and document the necessary skills, responsibilities, education and training for careers of interest. (ILO: Critical Thinking)
- CLO#3: Conduct career interviews with community members and college staff.

CLO#4: Develop and employ effective decision-making strategies for education and career.

CLO#5: Participate as a member of a team learning to work cooperatively with others and contribute to the group with ideas, suggestions, and effort.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

CG 147 - Decision Making

1 Credit(s)

Course Description: Develops an awareness of decision-making styles and encourages the practice of different decision-making styles to make effective educational and career choices.

Course Learning Outcomes:

CLO#1: Apply principles of decision making to career and college search.

CLO#2: Explore and select a college major and identify the progression of courses for that major. (ILO: Critical Thinking)

CLO#3: Identify career/education/training choices. Evaluate and identify financial aid options resources.

CLO#4: Identify short-term and long-term goals and appropriate applications.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

CG 150 - Identify Trades in Science - Tech

3 Credit(s)

Course Description: Explores the fields of automotive and diesel, building construction and computer literacy. Investigates diverse subjects including high technology and the trades; and explores the dynamic changing roles of men and women in the workplace.

Course Learning Outcomes:

CLO#1: Classify STEM fields and occupations that fall into this category.

CLO#2: Identify and document the necessary skills, responsibilities, education and training for careers of interest.

CLO#3: Recognize and define careers in the science field, technology field, engineering field and math field. (ILO: Communication)

CLO#4: Explore career opportunities in the trades and technical fields and select a major. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

LECTURE PORTION: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

LECTURE/LAB PORTION: A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

CG 155 - Exploring Careers in Health Care**3 Credit(s)****Corequisite(s):**

WR 115 or designated placement

WR 115Q as required

Recommended Prerequisite(s):

CIS 120

Course Description: Introduces students to a comprehensive range of professions in health care. Students will explore career choices including educational requirements, job outlooks, occupational requirements, wage ranges, and professional requirements. Students will also explore some of the current issues and potential ethical dilemmas that health care professionals face. In addition, students will complete self-assessments in the Oregon Career Information System (CIS) to help determine which health careers are a good match for their interests and skills.

Course Learning Outcomes:

- CLO#1: Explain the delivery of health care services and related career paths.
- CLO#2: Perform a self-assessment of key qualities of effective healthcare workers to determine careers of interest/ compatibility.
- CLO#3: Explain differences in international healthcare systems and identify trends in the health care industry and their related effect on health care professions.
- CLO#4: Explain specifics about health care professions and explore pathways including educational and licensing requirements, wage outlook, employment outlook, and employer expectations.
- CLO#5: Identify and explain issues related to equity and diversity in healthcare. Synthesize information to explain how this can impact quality of patient care. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#6: Apply knowledge to create targeted health care career plan of action.

Typical Required and Recommended Equipment and Materials: Access to Word and PowerPoint or similar programs is necessary for assignment completion. An Internet connection (broadband recommended) is required for the online version of this course. Use of the Oregon Career Information System (CIS) is also required,

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC deliver of (33) lecture hours per term, not to exceed (36) hours per term.

CG 199 - Special Studies - Career Guidance

Var. (1-2) Credit(s)

Prerequisite(s):

Varies according to specific offering.

Course Description: Presents special topics in Human Development/Career Guidance. Content varies according to department/institution needs and demand. Course is repeatable.

Course Learning Outcomes:

CLO#1: Individual course outcomes and ILOs will be developed at the time the proposed class is designed. Typical assessments will include but are not limited to homework exercises, discussion, quizzes, examinations, course discussions, and research papers.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

Chemistry

CHEM 104 - Introductory Chemistry

4 Credit(s)

Prerequisite(s):

MTH 65 or MTH 102CT or higher-level math course, or designated placement

Corequisite(s):

CHEM 104L

Course Description: Designed for non-science majors. Introduces the essence of atoms and molecules, chemical bonds, chemical reactions, gases, acids, and bases. Prepares students for work in a laboratory that uses chemicals. Helps students recognize how cells and organisms function. Students must enroll in lecture, laboratory and recitation sections.

Course Learning Outcomes:

CLO#1: Use the metric system, scientific notation, significant figures, and conversion factors to perform introductory chemistry calculations.

CLO#2: Use the periodic table as a tool for solving problems in introductory chemistry.

CLO#3: Use the International Union of Pure and Applied Chemistry (IUPAC) system to name and write formulas for introductory chemical compounds.

CLO#4: Use Lewis structures, electronegativity values, and molecular shapes to draw conclusions about intermolecular forces and states of matter.

CLO#5: Write and balance chemical reactions; use balanced equations to perform stoichiometry calculations. (ILO: Quantitative Literacy and Reasoning)

CLO#6: Use energy concepts to explain reaction rates and chemical equilibrium.

CLO#7: Describe and calculate properties of aqueous solutions, including acids, bases, and salts.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

CHEM 104L - Introductory Chemistry Lab

1 Credit(s)

Prerequisite(s):

MTH 65 or MTH 102CT or higher-level math course, or designated placement

Corequisite(s):

CHEM 104

Course Description: Designed for non-science majors. Introduces the essence of atoms and molecules, chemical bonds, chemical reactions, gases, acids, and bases. Prepares students for work in a laboratory that uses chemicals. Students must enroll in lecture, laboratory and recitation sections. All three sections must be taken concurrently.

Course Learning Outcomes:

CLO#1: Use the metric system, scientific notation, significant figures, and conversion factors to perform introductory chemistry calculations.

CLO#2: Use the periodic table as a tool for solving problems in introductory chemistry.

CLO#3: Use the International Union of Pure and Applied Chemistry (IUPAC) system to name and write formulas for introductory chemical compounds.

CLO#4: Use Lewis structures, electronegativity values, and molecular shapes to draw conclusions about intermolecular forces and states of matter.

CLO#5: Write and balance chemical reactions; use balanced equations to perform stoichiometry calculations.

CLO#6: Use energy concepts to explain reaction rates and chemical equilibrium.

CLO#7: Describe and calculate properties of aqueous solutions, including acids, bases, and salts.

CLO#8: Interpret laboratory data to draw conclusions about introductory chemistry experiments. (ILO: Quantitative Literacy and Reasoning)

CLO#9: Learn how to perform hazard assessment, SDS, and learn safety techniques.

Typical Required and Recommended Equipment and Materials: safety goggles, scientific calculator (logarithms and scientific notation), long pants and closed-toe shoes for lab

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

CHEM 105 - Introductory Organic Chemistry

3 Credit(s)

Prerequisite(s):

CHEM 104, CHEM 104L or higher-level chemistry course.

Corequisite(s):

CHEM 105L

Course Description: Designed for non-science majors. Introduces the essence of nuclear chemistry and organic chemistry, including hydrocarbons, alcohols, ethers, aldehydes, ketones, carboxylic acids, esters, amines and amides. Prepares students for work in a laboratory that uses chemicals. Also helps students understand how cells and organisms' function. Students must enroll in lecture and laboratory sections. Both lecture and lab are required to be taken together.

Course Learning Outcomes:

CLO#1: Compare and contrast chemical and nuclear reactions.

CLO#2: Describe the physical and chemical properties of introductory organic compounds: hydrocarbons, alcohols, ethers, aldehydes, ketones, carboxylic acids, esters, amines, and amides.

CLO#3: Recognize and distinguish between distinct isomers of introductory organic compounds. (ILO: Quantitative Literacy and Reasoning)

CLO#4: Use and recognize correct IUPAC nomenclature for introductory organic compounds.

CLO#5: Describe and identify the products of chemical reactions involving introductory organic compounds.

Typical Required and Recommended Equipment and Materials: Scientific calculator (logarithms and scientific notation)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

CHEM 105L - Introductory Organic Chemistry Lab

1 Credit(s)

Prerequisite(s):

CHEM 104, CHEM 104L or higher-level chemistry course.

Corequisite(s):

CHEM 105

Course Description: Designed for non-science majors. Introduces the essence of nuclear chemistry and organic chemistry, including hydrocarbons, alcohols, ethers, aldehydes, ketones, carboxylic acids, esters, amines and amides. Prepares students for work in a laboratory that uses chemicals. Also helps students understand how cells and organisms' function. Both lecture and

lab are required to be taken together.

Course Learning Outcomes:

- CLO#1: Compare and contrast chemical and nuclear reactions.
- CLO#2: Describe the physical and chemical properties of introductory organic compounds: hydrocarbons, alcohols, ethers, aldehydes, ketones, carboxylic acids, esters, amines, and amides.
- CLO#3: Recognize and distinguish between distinct isomers of introductory organic compounds.
- CLO#4: Use and recognize correct IUPAC nomenclature for introductory organic compounds.
- CLO#5: Describe and identify the products of chemical reactions involving introductory organic compounds.
- CLO#6: Use the results of laboratory tests to identify an unknown organic compound. (ILO: Quantitative Literacy and Reasoning)

Typical Required and Recommended Equipment and Materials: safety goggles, scientific calculator (logarithms and scientific notation), long pants and closed-toe shoes for lab

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

CHEM 106 - Introductory Biochemistry

3 Credit(s)

Prerequisite(s):

CHEM 105, CHEM 105L

Corequisite(s):

CHEM 106L

Course Description: Designed for non-science majors. Introduces the essence of biochemistry, including chirality, carbohydrates, lipids, proteins, enzymes, nucleic acids and metabolism. Prepares students for work in a laboratory that uses chemicals. Also helps students understand how cells and organisms function. Both lecture and lab are required to be taken together.

Course Learning Outcomes:

- CLO#1: Recognize and interpret different representations of chiral compounds.
- CLO#2: Describe the physical and chemical properties of introductory biochemical compounds: carbohydrates, lipids, amino acids, proteins, enzymes, and nucleic acids.
- CLO#3: Recognize and distinguish between distinct isomers of introductory biochemical compounds. (ILO: Quantitative Literacy and Reasoning)
- CLO#4: Give examples of the roles of introductory biochemical compounds in living organisms.
- CLO#5: Explain and interpret metabolic reactions involving introductory biochemical compounds.

Typical Required and Recommended Equipment and Materials: scientific calculator (logarithms and scientific notation)

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

CHEM 106L - Introductory Biochemistry Lab

1 Credit(s)

Prerequisite(s):

CHEM 105, CHEM 105L

Corequisite(s):

CHEM 106

Course Description: Designed for non-science majors. Introduces the essence of biochemistry, including chirality, carbohydrates, lipids, proteins, enzymes, nucleic acids and metabolism. Prepares students for work in a laboratory that uses chemicals. Also helps students understand how cells and organisms' function. Both lecture and lab are required to be taken together.

Course Learning Outcomes:

- CLO#1: Recognize and interpret different representations of chiral compounds.
- CLO#2: Describe the physical and chemical properties of introductory biochemical compounds: carbohydrates, lipids, amino acids, proteins, enzymes, and nucleic acids.
- CLO#3: Recognize and distinguish between distinct isomers of introductory biochemical compounds.
- CLO#4: Give examples of the roles of introductory biochemical compounds in living organisms.
- CLO#5: Explain and interpret metabolic reactions involving introductory biochemical compounds.
- CLO#6: Use the results of laboratory tests to identify an unknown biochemical compound.
(ILO: Quantitative Literacy and Reasoning)

Typical Required and Recommended Equipment and Materials: safety goggles, scientific calculator (logarithms and scientific notation), long pants and closed-toe shoes for lab

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

CHEM 221Z - General Chemistry I

4 Credit(s)

Prerequisite(s):

MTH 95 or higher-level math course, or designated placement

Corequisite(s): CHEM 227Z

Course Description: Explores and applies principles and applications of chemistry. Emphasis on measurement, components of matter, atomic and molecular structure, quantitative relationships including foundational stoichiometry, and major classes of chemical reactions. CH/CHE/CHEM 221Z is a lecture course; CH/CHE/CHEM 227Z is the laboratory component.

Course Learning Outcomes:

- CLO#1: Describe the phases and classifications of matter and differentiate between physical and chemical properties. (ILO: Communication)
- CLO#2: Represent physical measurements using SI and derived units and demonstrate systematic problem-solving including unit conversion.
- CLO#3: Use the periodic table to solve problems in chemistry.
- CLO#4: Describe the principles of electromagnetic energy, the Bohr model and quantum theory, and use electron configurations to identify periodic variations in chemical properties.
- CLO#5: Interpret and apply ionic and covalent bonding theories including Lewis structures, formal charges, resonance, molecular structure, and polarity.
- CLO#6: Quantify the composition of substances and solutions.
- CLO#7: Identify and name a variety of elements, ions, ionic compounds, and covalent compounds.
- CLO#8: Write, balance, and classify chemical reactions and solve foundational stoichiometry calculations.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required State minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

CHEM 222Z - General Chemistry II

4 Credit(s)

Prerequisite(s):

CHEM 221Z and CHEM 227Z, (formerly offered as CHEM221, CHEM221L, CHEM221R), and

MTH 95 or higher-level math course, or designated placement

Corequisite(s):

CHEM 228Z

Course Description: Explores and applies principles presented in CH/CHE/CHEM 221Z to the study of the solid, liquid, and gaseous states of matter. Principles of stoichiometry, thermochemistry, kinetics, and foundational equilibrium are explored and applied to the study of aqueous and gas-phase chemical reactions. CH/CHE/CHEM 222Z is a lecture course;

CH/CHE/CHEM 228Z is the laboratory component.

Course Learning Outcomes:

- CLO#1: Apply stoichiometry to a variety of problems involving reactions, gases, liquids, solutions, thermochemistry, kinetics, and equilibrium expressions.
- CLO#2: Apply kinetic molecular theory and gas laws to predict the behavior of gases at various conditions. (ILO: Quantitative Literacy, and Reasoning)
- CLO#3: Identify types of intermolecular forces and apply them to physical properties of solids, liquids, and solutions.
- CLO#4: Describe solution concepts and factors affecting solution properties.
- CLO#5: Determine the effects of different factors on chemical reaction rates and examine the role of catalysis in modifying these rates.
- CLO#6: Apply concepts of thermochemistry to explain thermal energy transfer and the energy changes that accompany chemical and physical changes.
- CLO#7: Identify and apply appropriate equations related to gas laws, solutions, colligative properties, thermochemistry, kinetics, and equilibrium expressions.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required State minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

CHEM 223Z - General Chemistry III

4 Credit(s)

Prerequisite(s):

CHEM 222Z and CHEM 228Z (formerly offered as CHEM222, CHEM222L, CHEM222R), and
MTH 95 or higher-level math course, or designated placement

Corequisite(s): CHEM 229Z

Course Description: Builds upon the principles presented in CH/CHE/CHEM 222Z, explores thermodynamics and chemical equilibrium, and applies them to the study of aqueous acid-base reactions, solubility, and electrochemistry. CH/CHE/CHEM 223Z is a lecture course; CH/CHE/CHEM 229Z is the laboratory component.

Course Learning Outcomes:

- CLO#1: Apply concepts of thermodynamics to explain the favorability of chemical reactions.
- CLO#2: Apply the principles of spontaneity, entropy, free energy, and the laws of thermodynamics to predict and rationalize the behavior of chemical reactions. (ILO: Critical Thinking)
- CLO#3: Interpret the behavior and relative strengths of acids and bases, buffers, and the hydrolysis of salts.
- CLO#4: Analyze and evaluate equilibrium reactions including solubility, acids and bases, and other equilibria.
- CLO#5: Predict responses of various chemical systems to changing conditions using equilibrium calculations and Le Chatelier's Principle.

CLO#6: Use redox reactions and electrochemical principles to determine cell potentials and to analyze the relationship between voltage, free energy, and equilibrium.

CLO#7: Identify or formulate and apply the appropriate equations related to electrochemistry, thermodynamics, equilibrium reactions, acids, bases, and buffers.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required State minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

CHEM 227Z - General Chemistry I Laboratory

1 Credit(s)

Prerequisite(s):

MTH 95 or higher-level math course, or designated placement

Corequisite(s): CHEM 221Z

Course Description: Experiments correspond to the topics covered in CH/CHE/CHEM 221Z including the fundamentals of chemical measurements, quantitative relationships in chemical analysis, and understanding atomic and molecular structure. CH/CHE/CHEM 227Z is the laboratory component; CH/CHE/CHEM 221Z is the lecture course.

Course Learning Outcomes:

CLO#1: Follow standard safety procedures while working with chemicals and equipment in a laboratory setting.

CLO#2: Keep an accurate and detailed laboratory record.

CLO#3: Measure, calculate, and report data and results using proper units and appropriate measures of uncertainty.

CLO#4: Analyze experimental results qualitatively and quantitatively with measures of accuracy and precision. (ILO: Critical Thinking)

CLO#5: Interpret and communicate the results of experiments applying chemical concepts in CH/CHE/CHEM 221Z in a clear and concise manner.

CLO#6: Investigate chemical concepts in CH/CHE/CHEM 221Z qualitatively and quantitatively using scientific methods.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required State minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

CHEM 228Z - General Chemistry II Laboratory

1 Credit(s)

Prerequisite(s):

CHEM 221Z, CHEM 227Z (formerly offered as CHEM221, CHEM221L, CHEM221R), and

MTH 95 or higher-level math course, or designated placement

Corequisite(s):

CHEM 222Z

Course Description: Experiments correspond to the topics covered in CH/CHE/CHEM 222Z including the fundamentals of intermolecular interactions, stoichiometric relationships, chemical equilibria and their application to the synthesis, identification, and analysis of chemical compounds. CH/CHE/CHEM 228Z is the laboratory component; CH/CHE/CHEM 222Z is the lecture course.

Course Learning Outcomes:

- CLO#1: Follow standard safety procedures while working with chemicals and equipment in a laboratory setting.
- CLO#2: Keep an accurate and detailed laboratory record. (ILO: Communication)
- CLO#3: Measure, calculate, and report data and results using proper units and appropriate measures of uncertainty.
- CLO#4: Analyze experimental results qualitatively and quantitatively with measures of accuracy and precision.
- CLO#5: Interpret and communicate the results of experiments applying chemical concepts in CH/CHE/CHEM 222Z in a clear and concise manner.
- CLO#6: Investigate chemical concepts in CH/CHE/CHEM 222Z qualitatively and quantitatively using scientific methods.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required State minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

CHEM 229Z - General Chemistry III Laboratory

1 Credit(s)

Prerequisite(s):

CHEM 222Z, CHEM 228Z (formerly offered as CHEM222, CHEM222L, CHEM222R), and

MTH 95 or higher-level math course, or designated placement

Corequisite(s): CHEM 223Z

Course Description: Experiments correspond to the topics covered in CH/CHE/CHEM 223Z including the principles of chemical equilibria and their application to chemical analysis using volumetric and electrochemical methods. CH/CHE/CHEM 229Z is the laboratory component; CH/CHE/CHEM 223Z is the lecture course.

Course Learning Outcomes:

- CLO#1: Follow standard safety procedures while working with chemicals and equipment in a laboratory setting.
- CLO#2: Keep an accurate and detailed laboratory record.

- CLO#3: Measure, calculate, and report data and results using proper units and appropriate measures of uncertainty. (ILO: Quantitative Literacy, and Reasoning)
- CLO#4: Analyze experimental results qualitatively and quantitatively with measures of accuracy and precision.
- CLO#5: Interpret and communicate the results of experiments applying chemical concepts in CH/CHE/CHEM 223Z in a clear and concise manner.
- CLO#6: Investigate chemical concepts in CH/CHE/CHEM 223Z qualitatively and quantitatively using scientific methods.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required State minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

Computer and Information Sciences

CIS 60 - PC Basics I

2 Credit(s)

Course Description: Designed for students with little or no previous experience with computers. Introduces basic computer fundamentals through lecture, demonstrations and hands-on experience with a personal computer. This course will cover basic hardware terminology, popular Internet technologies, email, online course skills, basic file management operations, word processing, and spreadsheets and may include other applications. Additionally, introduces students to basic computer concepts and terms and the practical applications of microcomputers in life. Course is graded on a pass/no pass basis. Course does not transfer.

Course Learning Outcomes:

- CLO#1: Acquire a working knowledge of basic computer technology.
- CLO#2: Explain and demonstrate Internet browsing skills, including the use of hyperlinks, basic search engines, and basic email operations.
- CLO#3: Identify popular computer hardware, Windows operating system, and computer peripherals.
- CLO#4: Demonstrate basic use of a word processing application. (ILO: Critical Thinking)
- CLO#5: Explain and demonstrate basic file management skills, including saving files, opening files, creating folders, copying files, file deletion, moving files, and renaming files. (ILO: Information Literacy)
- CLO#6: Be able to explain basic use of common features of an online course management system.

Typical Required and Recommended Equipment and Materials: USB Thumb drive

ACTI Code and Course Type

352 Post-Secondary Remedial Elective

Length of Course:

LECTURE PORTION: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

LECTURE/LAB PORTION: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per one term, not to exceed (24) hours per term.

CIS 120 - Concepts in Computing I

2 Credit(s)

Course Description: This course provides foundational skills for navigating and utilizing technology in personal, academic, and professional settings. Students will develop basic computer functions, including file management, cloud-based storage, and safe internet practices. Emphasis is placed on understanding and navigating the layout of word processing, spreadsheet, and presentation tools. Students will also develop skills in professional electronic communication, internet research, and evaluating information for credibility as well as the use of artificial intelligence tools to enhance productivity.

Course Learning Outcomes:

- CLO#1: Demonstrate navigation of internet-based applications.
- CLO#2: Demonstrate effective file management and utilize cloud storage for file management and sharing.
- CLO#3: Discuss an awareness of online safety principles and computer security threats.
- CLO#4: Employ proficiency in industry-standard productivity software to generate commonly utilized word-processing tools. (ILO: Critical Thinking)
- CLO#5: Employ proficiency in industry-standard productivity software to generate commonly utilized spreadsheet tools.
- CLO#6: Demonstrate the basics of presentation software.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed 48 hours per term.

CIS 125DB - Advanced Applications - Access

3 Credit(s)

Prerequisite(s):

CIS 120 (formerly offered as CS120) or BA 131, and MTH 60 or MTH 102CT or BT 160

Course Description: Designed for students in any discipline, this course includes a hands-on approach to develop competency in basic and advanced concepts and commands of database management. Students will learn to design, set up, and print a variety of forms and reports. Software to be used to develop materials is Microsoft Access.

Course Learning Outcomes:

- CLO#1: Demonstrate a working knowledge of database terminology.
- CLO#2: Distinguish between uses of flat files and relational databases.
- CLO#3: Use MS Access as a tool for database creation, management, and reports. (ILO: Critical Thinking)
- CLO#4: Use MS Access to plan and implement a relational database design. (ILO: Critical Thinking)
- CLO#5: Plan and design multiple fields and tables within a database.
- CLO#6: Create, sort, index, move around in the file, and display data according to criteria.

CLO#7: Implement complex calculations in fields, queries and reports. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Access 2019/Office 365.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery (33) lecture hours per one term, not to exceed (36) hours per term

CIS 125PT - Advanced Applications - PowerPoint

2 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

BA 131 or CIS 120 (formerly offered as CS120)

Course Description: Includes a hands-on approach to develop competency in basic and advanced concepts and commands of effective presentations. Students will also learn techniques for developing and creating presentations that engage the audience, illustrate ideas, and use media effectively. Software used to develop presentations in the course is Microsoft PowerPoint. The course does not fulfill degree or certificate requirements for computer proficiency.

Course Learning Outcomes:

CLO#1: Identify elements of the PowerPoint user interface and navigate within the interface.

CLO#2: Use PowerPoint tools to create slides using text, graphics, charts, sound, and video to create consistent design elements in a presentation. (ILO: Critical Thinking)

CLO#3: Plan and create a presentation that engages an audience and effectively communicates and illustrates main topics, concepts, and ideas. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per one term, not to exceed (24) hours per term.

CIS 125V - Advanced Applications - Visio

1 Credit(s)

Prerequisite(s):

CIS 120 (formerly offered as CS120), or equivalent computing experience.

Course Description: Introduces diagramming software using Microsoft Visio Professional. Applications and projects are designed for both business and technical professional skill development. Students learn to develop any of the following: flow charts, organizational charts, office layouts, Web site diagrams, network diagrams, and building and electrical plans. Course

projects will be flexible, and students will select from topics appropriate to their areas of study.

Course Learning Outcomes:

- CLO#1: Creates and add shapes to diagrams and works with linked and embedded projects.
- CLO#2: Apply layers and uses connection tools to create diagrams.
- CLO#3: Creates charts and uses templates and original designs to build Visio projects.
- CLO#4: Use diagramming tools to solve given scenario. (ILO: Information Literacy)
- CLO#5: Assemble additional shapes and tools through online resources and update Visio application.
- CLO#6: Apply Visio tools to given project. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Visio 2016, provided through MSDNAA.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per one term, not to exceed (12) hours per term.

CIS 145 - Introduction to Hardware - Software

5 Credit(s)

Prerequisite(s):

CIS 120 (formerly offered as CS120) or documented computer proficiency

Course Description: Students will gain a complete, step-by-step approach for learning the fundamentals of supporting and troubleshooting computer hardware and software. Develops competency in basic and advanced concepts and commands of the three industry-standard operating systems and their hardware requirements. Emphasis is placed on installation and conductivity of the operating systems and hardware components. Topics include the comparison of various operating systems (Windows, Linux and Apple), input/output control, introduction to the command line, software and operating systems installation, customization, and windowing environments. Designed for students in any discipline.

Course Learning Outcomes:

- CLO#1: Install an operating system. (ILO: Information Literacy)
- CLO#2: Apply troubleshooting techniques to identify and solve hardware and software problems.
- CLO#3: Optimize computer performance using system tools.
- CLO#4: Assemble and disassemble components of a computer.
- CLO#5: Break down steps to implement and install security measures.
- CLO#6: Perform basic networking tasks.
- CLO#7: Assess software needs to complete a task.
- CLO#8: Configure and secure Windows Registry. (ILO: Information Literacy)
- CLO#9: Perform advanced file management tasks.
- CLO#10: Perform software installation and removal.
- CLO#11: Configure the user interface.

Typical Required and Recommended Equipment and Materials: Requires computer system

with 8.0GB or more of RAM, 60GB free hard drive space, and Hardware Virtualization (VT-x) settings in the BIOS enabled.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (100) and a standard RCC delivery of (110) lecture/lab hours per one term, not to exceed (120) hours per term.

CIS 179 - Introduction to Networks

4 Credit(s)

Prerequisite(s):

CIS 120 (formerly offered as CS120)

Course Description: Serves as a general introduction for students who need a foundation in current networking technology and a general overview of computer networks and concepts. Network topics include design essentials, media, interface cards, communications and protocols, architectures, operations, local area networks (LANs) and wide area networks (WANs), troubleshooting, and resources.

Course Learning Outcomes:

- CLO#1: Identify the major standards bodies.
- CLO#2: Understand the OSI Model and its purpose in networking. (ILO: Critical Thinking)
- CLO#3: Identify the common network protocols in use today and discuss advantages and disadvantages of each along with possible implementations of each.
- CLO#4: Explain the major components that comprise network media. This includes cabling and wireless technologies. (ILO: Information Literacy)
- CLO#5: Classify what components make up a network architecture and what architectures are in use today along with advantages and disadvantages of each.
- CLO#6: Identify hardware components and their implementations and how speed and network needs determine component implementation.
- CLO#7: Identify different wide area networking technologies and analyze when to implement different components and discuss application of remote network connections.
- CLO#8: Explain the importance of protecting a network, what to protect the network from and some possible prevention strategies.
- CLO#9: Assess key components of the most commonly used protocol, TCP/IP, how it is implemented in the Internet environment and how the protocol can be subdivided into many individual protocols. (ILO: Critical Thinking)
- CLO#10: Identify the importance of securing a network and possible methods for securing systems.

Typical Required and Recommended Equipment and Materials: Access to a computer with Internet.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per one term, not to exceed (96) hours per term.

CIS 195 - Web Authoring I

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement,

WR 115Q as required, and

CIS 120 (formerly offered as CS120) or documented proficiency within the past ten years, and

MTH 60 or designated placement

Corequisite(s):

WR 121Z

Course Description: Introduces students to Web page and website development, moving on to working with cascading style sheets. Students will learn HTML and CSS for creating special effects and styling. Students will create HTML forms and tables, and will learn how to embed multimedia including the use of audio and video elements.

Course Learning Outcomes:

CLO#1: Define the purpose, nature and history of web site design and creation.

CLO#2: Demonstrate a functional understanding of the syntax of the HTML and XHTML markup languages. (ILO: Information Literacy)

CLO#3: Prepare the appropriate plans for webpage and website development projects.

CLO#4: Demonstrate a functional understanding of Cascading Style Sheets, Web Tables, Web Forms, the use of Multimedia, and Frame design.

CLO#5: Demonstrate a functional understanding of the document object model (DOM), the event model and form validation.

CLO#6: Demonstrate an understanding of regular expressions, operators, arrays, loops and conditional statements using JavaScript.

CLO#7: Function efficiently in a group programming assignment requiring analysis, definition of logic, implementation, and evaluation of a program. (ILO: Information Literacy)

CLO#8: Demonstrate the ability to use text, manuals, help, and tutorials for continued learning after formal instruction.

CLO#9: Use debugging techniques to troubleshoot markup language development and understand common mistakes made when designing web sites. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Software: Current browsers and text editor must be installed on your computer. Instructor will provide information on recommended versions and tools. Handouts: Additional handouts may be required. Instructor will provide information on obtaining this mate

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

CIS 196 - Web Authoring II

4 Credit(s)

Prerequisite(s):

CIS 195

Course Description: Follows CIS 195 and introduces students to advanced concepts of website design and creation using Hyper Text Markup Language (HTML) and Cascading Style Sheets (CSS). Students will develop Web pages and websites and work with CSS. Course will include instruction on building a website using techniques of graceful degradation and progressive enhancement. Includes instruction on guidelines for content, style, structure, and accessibility. New structural elements are covered including the Canvas element, validation, HTML forms, audio, video, CSS3, geolocation, rich Internet applications, local storage, and multiscreen media queries.

Course Learning Outcomes:

- CLO#1: Discuss the purpose, nature and history of dynamic web site design and creation.
- CLO#2: Demonstrate a functional understanding of the syntax of the HTML and XHTML markup languages including JavaScript essentials.
- CLO#3: Prepare the appropriate plans for dynamic webpage and website development projects. (ILO: Critical Thinking)
- CLO#4: Apply an in-depth understanding of Cascading Style Sheets, Web Tables, Web Forms, the use of Multimedia, and Frame design.
- CLO#5: Apply an in-depth understanding of the document object model (DOM), the event model and form validation, and dynamic content with a rich level of detail. (ILO: Information Literacy)
- CLO#6: Apply an understanding of web pages that are media aware with device specific rendering.
- CLO#7: Apply a conceptual understanding of regular expressions, operators, arrays, loops and conditional statements using JavaScript.
- CLO#8: Function efficiently in a group programming assignment requiring analysis, definition of logic, implementation, and evaluation of a program.
- CLO#9: Demonstrate the ability to use text, manuals, help, and tutorials for continued learning after formal instruction. (ILO: Information Literacy)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

CIS 199 - Special Studies - CIS

Var. (1-4) Credit(s)

Prerequisite(s):

May vary depending on subject offerings.

Course Description: Offered in a number of formats: workshop, seminar, or independent study. May also be offered as a scheduled course and cover topics in computer science or related subjects. Course is repeatable.

Course Learning Outcomes:

CLO#1: Variable (ILO: Variable)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

CIS 225 - Computer End-User Support I**4 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required, and

CIS 145, CIS 179

Recommended Prerequisite(s):

WR 121Z

Course Description: Prepares students for training and supporting End-Users in a variety of organization settings. Topics to be discussed include the End-User support function in an organization, techniques for developing and delivering training modules, and techniques for providing ongoing technical support to End-Users. Emphasis is on solving problems with users (debugging, troubleshooting, and interaction with users) with actual and/or simulated functions of a computer support department.

Course Learning Outcomes:

CLO#1: Analyze End-User needs and requests.

CLO#2: Evaluate characteristics of technical support personnel; apply characteristics to end user support tasks.

CLO#3: Identify quality customer service skills and how to implement skills. (ILO: Critical Thinking)

CLO#4: Identify software/hardware solutions for End-Users using appropriate product evaluation strategies. (ILO: Information Literacy)

CLO#5: Collaborate with end users using proper technical training techniques and targeted audience design. (ILO: Communication)

CLO#6: Assess and identify computer software and/or hardware problems.

Typical Required and Recommended Equipment and Materials: Internet access.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per one term, not to exceed (48) hours per term.

CIS 240 - Advanced Operating Systems

4 Credit(s)

Prerequisite(s):

CIS 145

Course Description: This course gives students an in-depth coverage of the skills needed to configure and manage identity with Windows Server 2016. Students will have an in-depth knowledge of Windows Server 2016 identity-related services, including Active Directory, user and group accounts, Group Policy, Active Directory Certificate Services, and advanced identity solutions such as Active Directory Federation Services and Active Directory Rights Management Services.

Course Learning Outcomes:

- CLO#1: Installing Server 2016
- CLO#2: Research and Deploy Active Directory on Server 2016/2019 (ILO: Critical Thinking)
- CLO#3: Explain basics of Active Directory.
- CLO#4: Domain Controller and Active Directory management.
- CLO#5: Managing Organizational Units and accounts.
- CLO#6: Advanced Active Directory configuration.
- CLO#7: User and service account configuration management. (ILO: Information Literacy)
- CLO#8: Configuring and Manage Group Policies. (ILO: Critical Thinking)
- CLO#9: Create and manage an Active Directory Certificate Services.
- CLO#10: Implementing identity solutions.

Typical Required and Recommended Equipment and Materials: PC with Hardware Virtualization

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

CIS 240LX - Advanced Operating Systems - Linux

4 Credit(s)

Prerequisite(s):

CIS 145

Course Description: This course is intended for students who want to learn about the Linux operating system and prepare to pass the Linux+ certification exam from CompTIA. It does not assume any prior knowledge of Linux and is geared toward those interested in systems administration as well as those who will use or develop programs for Linux systems. The course provides comprehensive coverage of topics related to Linux administration, including Linux distributions, installation, application management, X-Windows, cloud technologies, networking,

and security.

Course Learning Outcomes:

- CLO#1: Identify fundamental components of the Linux operating system.
- CLO#2: Analyze different versions of Linux for various users and hardware systems.
- CLO#3: Install, maintain, and update a common desktop version of Linux. (ILO: Critical Thinking)
- CLO#4: Manage the Linux file system and user permissions with command line and GUI tools.
- CLO#5: Identify network technologies and install, secure, and manage network connections. (ILO: Information Literacy)
- CLO#6: Perform basic scripting using Python
- CLO#7: Perform common administrative tasks using both command line and GUI tools.
- CLO#8: Research new developments in Linux.

Typical Required and Recommended Equipment and Materials: For web delivery, students must have access to a computer capable of running a virtual machine with a Linux installation, and an internet connection.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

CIS 279 - Network Operating Systems

4 Credit(s)

Prerequisite(s):

CIS 145 and CIS 179

Course Description: Covers concepts related to network operating systems - specifically Windows Server. Topics include server hardware, user and group management, network file management, group policy, network printing, server maintenance, Domain Naming Service (DNS), Dynamic Host Configuration Protocol (DHCP), and system backup and restore.

Course Learning Outcomes:

- CLO#1: Configuring TCP/IP.
- CLO#2: Configuring DNS Servers. (ILO: Information Literacy)
- CLO#3: Configuring Advanced DNS.
- CLO#4: Implementing DHCP.
- CLO#5: Managing DNS and DHCP with IPAM.
- CLO#6: Implementing Remote Access.
- CLO#7: Implementing Network Policy Server. (ILO: Information Literacy)
- CLO#8: Configuring Distributed File System and Branch Office.
- CLO#9: Implementing Advanced Network Solutions.

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

CIS 280 - CWE - Computer Information Sciences

Var. (1-12) Credit(s)

Prerequisite(s):

Permission of CWE Instructor or Department Chair.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their program. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, students should complete this course within the last 2 terms of their certificate or degree. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate the ability to successfully complete the interview process.
- CLO#2: Demonstrate the importance of completing forms accurately and meeting deadlines.
- CLO#3: Demonstrate the importance of an acceptable work ethic as described in the CWE Work Ethic and Professional Presence Guidelines and student's learning objectives.
- CLO#4: Demonstrate good work performance (student's learning objectives).
- CLO#5: Understand the importance of following instructions and meeting deadlines. (ILO: Information Literacy)
- CLO#6: Understand and demonstrate a professional presence as described in the CWE Work Ethic and Professional Presence Guidelines while on the job.
- CLO#7: Apply program knowledge, theories, principles, methods and technology. Gain new knowledge, skills, and experience while on the job. (ILO: Information Literacy)
- CLO#8: Make contacts which will help in obtaining employment.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

CIS 281 - Advanced Server Environments

4 Credit(s)

Prerequisite(s):

CIS 145 and CIS 240

Course Description: Practical, hands-on lab where students will configure and troubleshoot various network services in a client/server environment. Topics include workstation setup and

troubleshooting, user and group management, network file management, TCP/IP implementation and troubleshooting, group policy, network printing, Dynamic Host Configuration Protocol (DHCP), and Windows Server Update Service (WSUS).

Course Learning Outcomes:

- CLO#1: Backup and migrate user files.
- CLO#2: Upgrade an operating system.
- CLO#3: Configure and troubleshoot TCP/IP. (ILO: Information Literacy)
- CLO#4: Construct an Active Directory environment for End-User access. (ILO: Information Literacy)
- CLO#5: Configure and troubleshoot DHCP.
- CLO#6: Implement Group Policy Objects to automate computer patches and remote access.
- CLO#7: Promote a server to domain controller.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

CIS 282 - Help Desk Internship

3 Credit(s)

Prerequisite(s):

CIS 281

Course Description: Help Desk Internship enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their program. Together, the instructor, help desk technicians, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, students should complete this course within the last 2 terms of their certificate or degree.

Course Learning Outcomes:

- CLO#1: Successfully complete the interview process.
- CLO#2: Complete forms accurately and meet deadlines.
- CLO#3: Demonstrate the importance of an acceptable work ethic and professional presence as described in the CWE Work Ethic and Professional Presence Guidelines and student's learning objectives.
- CLO#4: Follow instructions and meet deadlines. (ILO: Information Literacy)
- CLO#5: Apply program knowledge, theories, principles, methods and technology. Gain new knowledge, skills, and experience while on the job. (ILO: Information Literacy)

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (90) and a standard RCC delivery of (99) CWE hours per one term, not to exceed (108) hours per term.

CIS 284 - Network Security Fundamentals

4 Credit(s)

Prerequisite(s):

CIS 179 or documented Network+ certification.

Course Description: Introduces the beginning concepts of computer and network security and threats. Introduction to security principles, common network and system attacks and defense technologies and techniques will be covered. Topics will also include basic cryptography, mobile device security, wireless network security, security policies, authentication, Internet communication security, and other security related topics.

Course Learning Outcomes:

- CLO#1: Acquire an appreciation for the multifaceted aspects of security and information assurance. (ILO: Information Literacy)
- CLO#2: Identify common network attacks, how they are implemented as well as prevention strategies.
- CLO#3: Identify all aspects of security principles with a strong focus on authentication methods.
- CLO#4: Analyze different media type's security risks as well as prevention strategies.
- CLO#5: Interpret Secure Internet communications via the web, email and other data transfer.
- CLO#6: Identify key concepts and protocols involved in administering a secure network process.
- CLO#7: Define basic cryptography methods and features of common algorithms in use and application such algorithms.
- CLO#8: Describe how a public key infrastructure works and how to take advantage of digital certificates.
- CLO#9: Define basic wireless and mobile device security practices.
- CLO#10: Perform vulnerability assessment. (ILO: Critical Thinking)
- CLO#11: Define risk mitigation is a small to medium corporation.

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

CIS 285 - Network Security II

4 Credit(s)

Prerequisite(s):

CIS 145 and CIS 284, or Instructor approval.

Course Description: The purpose of the course is to provide the student with an overview of the field of information security and assurance. Students will be exposed to the spectrum of security activities, methods, methodologies, and procedures. Coverage will include inspection and protection of information assets, detection of and reaction to threats to information assets, and examination of pre- and post-incident procedures, technical and managerial responses, and an overview of the information security planning and staffing functions.

Course Learning Outcomes:

- CLO#1: Outline organizational business need for information security.
- CLO#2: Describe the functions of and relationships among laws, regulations, and professional organizations in information security. (ILO: Critical Thinking)
- CLO#3: Explain what an information security blueprint is, identify its major components, and explain how it supports the information security program.
- CLO#4: Define risk management, risk identification, and risk control.
- CLO#5: Define the role of access control in information systems and identify and discuss the four fundamental functions of access control systems.
- CLO#6: Identify and describe the categories and models of intrusion detection and prevention systems.
- CLO#7: Describe the operating principles of the most popular cryptography tools. (ILO: Communication)
- CLO#8: Describe the relationship between information security and physical security.
- CLO#9: Demonstrate how an organization's information security blueprint becomes a project plan.

Typical Required and Recommended Equipment and Materials: MindTap Account and reliable Internet connection

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

CIS 299 - Special Studies - CIS

Var. (1-4) Credit(s)

Prerequisite(s):

May vary depending on subject offerings.

Course Description: The course is offered in a number of formats: workshop, seminar, or independent study. May also be offered as a scheduled course and cover topics in computer science or related subjects. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Variable (ILO: Variable)

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

Communication

COMM 100Z - Introduction to Communication

4 Credit(s)

Prerequisite(s):

WR 115 (and WR 115Q as required based on placement), or designated placement

Course Description: COMM 100Z is a survey course offering an overview of the communication discipline that emphasizes the development of best communication practices in different contexts. Formerly offered as COMM100.

Course Learning Outcomes:

- CLO#1: Explain the ways communication is impacted by ethics, language, nonverbal behaviors, perception, culture, and contexts
- CLO#2: Identify communication theories, perspectives, principles, and concepts. (ILO: Communication)
- CLO#3: Explore different areas of communication to develop a broad base of skills and communicative tools when interacting with others.
- CLO#4: Articulate the importance of communication expertise in career development and civic engagement.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

COMM 111Z - Public Speaking

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: COMM111Z emphasizes developing communication skills by examining and demonstrating how self-awareness, audience, content, and occasion influence the creation and delivery of speeches and presentations. Formerly offered as COMM 111.

Course Learning Outcomes:

- CLO#1: Develop messages for diverse audiences, purposes, and contexts.
- CLO#2: Identify and utilize skills to manage communication apprehension.
- CLO#3: Deliver and adapt speeches and/or presentations to live audiences. (ILO: Communication)

CLO#4: Evaluate public speeches, including their own, by identifying aspects of preparation, credibility, logic, and delivery.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

COMM 115 - Intercultural Communication

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Provides an overview of communication from an intercultural perspective. Students will learn how culture impacts social identities, communication behaviors, and meaning. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

CLO#1: Analyze opposing viewpoints on controversial subjects and participate in group discussions with ideas, suggestions, and perspectives.

CLO#2: Demonstrate interpersonal skills in small group activities.

CLO#3: Compare viewpoints on a controversial subject and incorporate divergent cultural perspectives. (ILO: Communication)

CLO#4: Analyze information about social and/or organizational systems and communicate the results.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) hours per term, not to exceed (48) hours per term.

COMM 201 - Media and Society

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: This course provides an overview of the history, present state, and future of different forms of mass communication - such as print, audio, television/film, and social media - and explores theoretical, economic, and societal perspectives on the creation and consumption of mass media, including advertising, media ethics, and media law and regulation.

Course Learning Outcomes:

- CLO#1: Identify the links between mass media and culture creation.
- CLO#2: Identify the benefits and drawbacks of each medium to offer targeted messages.
(ILO: Communication)
- CLO#3: Explain the historical progression of media into society.
- CLO#4: Describe the role of ethics in message creation and dissemination.
- CLO#5: Explain the unique characteristics of social media relative to other forms of mass communication.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

COMM 218Z - Interpersonal Communication**4 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

Course Description: COMM218Z increases the knowledge and use of competent communication skills to better understand oneself, others, and the role of communication in interpersonal relationships. Formerly offered as COMM 218.

Course Learning Outcomes:

- CLO#1: Describe how culture, identity, perception, biases, and power influence the communication process.
- CLO#2: Recognize and analyze interpersonal communication concepts (e.g., ethics, verbal and nonverbal communication, listening, emotions, and conflict). (ILO: Communication)
- CLO#3: Assess one's own interpersonal skills to become more competent in a variety of relational contexts.
- CLO#4: Apply foundational concepts and theories to interpersonal communication.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

COMM 225 - Small Group Communication**4 Credit(s)****Prerequisite(s):**

WR 115 (and WR 115Q as required based on placement), or designated placement

Corequisite(s):

WR 121Z

Course Description: Examines the nature of communication in a group or team context. Students will learn about individual and group roles, methods of negotiation and problem-solving, leadership, and the evolving nature of groups in business and society.

Course Learning Outcomes:

- CLO#1: Explain how groups function as systems.
- CLO#2: Apply principles of small group communication to engage in constructive group interactions. (ILO: Communication)
- CLO#3: Identify different leadership styles and the contexts best suited for each style.
- CLO#4: Identify the formal and informal roles of group members.
- CLO#5: Describe the forms of power.
- CLO#6: Explain the benefits and drawbacks of technology in the decision-making process.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

COMM 237 - Communication and Gender

4 Credit(s)

Prerequisite(s):

COMM 100Z or COMM 111Z or COMM 218Z

Course Description: Examines communication similarities and differences as related to gender and sex. More specifically, this class explores the relationship between one's sex, sexual preference, and gender identity with cultural and social expectations towards the creation and management of meaning. Gender issues to be explored include the dimensions of power, cultural and social values, language use, nonverbal communication, conflict resolution, and romance. Fulfills cultural literacy requirement within the AAOT degree.

Course Learning Outcomes:

- CLO#1: Explain how sex or gender identification affects self-perception.
- CLO#2: Identify the social, cultural, and media influences on gender roles and expectations. (ILO: Communication)
- CLO#3: Identify gender-related differences in language use and/or meaning.
- CLO#4: Describe how one's sex or sexual identity affects romance and/or relationship behavior.
- CLO#5: Recognize and describe gender-based tendencies for handling conflict and negotiation.
- CLO#6: Recognize and describe social issues related to sex (and gender identity) and discrimination.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

COMM 270 - Argumentation and Debate

3 Credit(s)

Prerequisite(s):

COMM 100Z or COMM 111Z

Course Description: Encourages students to analyze, respond to, and refute the arguments of others while backing their own claims with solid logic and reasoning. Public speaking skills are stressed and required as part of this course.

Course Learning Outcomes:

CLO#1: Identify and explain flaws in logic.

CLO#2: Formulate logically valid and well-supported arguments. (ILO: Communication)

CLO#3: Deliver speeches effectively to live audiences.

CLO#4: Apply multiple viewpoints to a range of issues.

CLO#5: Formulate and present speech rebuttals with little to no preparation time.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

COMM 280 - CWE - Communication

Var. (1-3) Credit(s)

Prerequisite(s):

Cooperative education is open to all students who have completed at least one-half of the required classes for their program of study and have the recommendation of the department cooperative education advisor.

Course Description: Cooperative education is a supervised program of on-the-job training for college credit in a Speech or Communication related area. Students are placed in a related industry, business, agency or organization which has been approved by the College as having the interest, personnel and resources to serve as a training center. The goal of cooperative education is to provide a learning experience which enriches and strengthens the student's education, personal development, and vocational preparation. It joins educators and employers in developing the community's greatest asset-its human resources. Course is repeatable.

Course Learning Outcomes:

CLO#1: Gain college credit for a valid learning experience to fulfill degree or certificate requirements.

CLO#2: Apply classroom theory to real world job experience. (ILO: Critical Thinking)

CLO#3: Apply learned skills, gain experience, and make contacts which will help in obtaining a job after graduation.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours, not to exceed (36) hours per term.

COMM 299 - Special Studies - Communication

Var. (1-3) Credit(s)

Prerequisite(s):

Varies by course.

Course Description: Covers a specialized area of communication in a given area of communication such as interpersonal, mass media, or organizational communication. Course is repeatable.

Course Learning Outcomes:

CLO#1: Varies based on course focus.

Typical Required and Recommended Equipment and Materials: Varies

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) hours per term, not to exceed (12) hours per term.

Computer Science

CS 133C - Programming Using C Sharp

4 Credit(s)

Prerequisite(s):

CIS 120 (formerly offered as CS120), and MTH 65 or higher-level math.

Course Description: Covers computer concepts and problem solving methods in the Windows environment using C# programming language. Topics include algorithms, simple data types, condition and iterative structures, functions and procedures, and the program documentation. Formerly offered as CS133C#.

Course Learning Outcomes:

- CLO#1: Apply Visual C# to design an appropriate user interface for a custom program.
- CLO#2: Prepare appropriate plans for programming projects. (ILO: Critical Thinking)
- CLO#3: Demonstrate variables and calculations in a programming project.
- CLO#4: Demonstrate the main program control structures in programming projects: sequential flow, decisions and looping.
- CLO#5: Demonstrate the use of custom procedures and functions, classes and properties in programming projects.
- CLO#6: Create classes with properties for use in a program.
- CLO#7: Function efficiently in a group programming assignment requiring analysis, definition of logic, implementation, and evaluation of a program. (ILO: Communication)
- CLO#8: Demonstrate the ability to use text, manuals, help, and tutorials for continued learning after formal instruction.
- CLO#9: Apply Visual C# debugging tools to troubleshoot programs.

Typical Required and Recommended Equipment and Materials: Microsoft Visual Studio 2015

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

CS 160 - Introduction to Computer Science

4 Credit(s)

Prerequisite(s):

CIS 120 (formerly offered as CS120) or documented proficiency, and MTH 65 or designated placement.

Recommended Prerequisite(s):

CIS 145

Course Description: Explores the disciplines and professions of computer science and software engineering. Provides an overview of computer hardware and software architecture, the study of algorithms, software design and development, data representation and organization, problem-solving strategies, ethics in the digital world, and the history of computing and its influences on society. Explores career options and begins the process of planning a program of study. Exposes students to both low-level and high-level programming languages.

Course Learning Outcomes:

- CLO#1: Define the field of computer science and related fields (computer engineering, information technology, information systems, software engineering); describe what practitioners of each of these fields do.
- CLO#2: Describe the educational requirements and options available to those wanting to enter any of the professions in computing.
- CLO#3: Identify the campus computing resources available to students and the appropriate uses of each for communication, research, and coursework.
- CLO#4: Analyze the societal and ethical issues that arise as a result of the increased use of digital systems. (ILO: Critical Thinking)

- CLO#5: Review the historical and technical evolution of computing and its impact on the field today. (ILO: Information Literacy)
- CLO#6: Assess the direction that hardware and software development may take in the next 10 years and its impact on jobs for future computing professionals.
- CLO#7: Describe the commonly used architecture of digital computers, and the function and relationships of the primary components of digital computers.
- CLO#8: Describe the interrelationship between system software and application software in the context of efficient and correctly operating computing systems.
- CLO#9: Solve problems using abstraction and modularization techniques. Describe software life-cycle and common tools of the software engineer (compilers, editors, IDEs, version control systems, change management systems, document management system). (ILO: Information Literacy)

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

CS 161J - Computer Science I - Java

4 Credit(s)

Prerequisite(s):

CS 133C or CS 161U or CS 160, and MTH 111Z or higher-level math.

Course Description: Presents the science of programming and problem solving using an object-oriented programming language. Emphasis is on a disciplined approach to algorithm development and problem-solving methods using the object-oriented programming language Java. The course covers basic programming constructs, syntax, semantics, and logic of the Java programming language. The course provides an introduction to object-oriented concepts such as encapsulation, inheritance and polymorphism. Simple UML class diagrams will be introduced and used as a tool for object-oriented design.

Course Learning Outcomes:

- CLO#1: Demonstrate a working knowledge of the concepts of encapsulation, inheritance, and polymorphism.
- CLO#2: Demonstrate a functional understanding of various data structures including classes, strings, arrays, and variables of different data types.
- CLO#3: Demonstrate a functional understanding of the syntax of the Java programming language.
- CLO#4: Evaluate selection and repetition control structures and their proper use in computer algorithms. (ILO: Critical Thinking)
- CLO#5: Solve programming problems using systematic methods of algorithm development and design. (ILO: Information Literacy)
- CLO#6: Demonstrate a functional understanding of object-oriented programming by interpreting problem statements, analyzing, designing, implementing, and testing complete Java programs. (ILO: Information Literacy)

Typical Required and Recommended Equipment and Materials: Netbeans.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term

CS 161U - Computer Science I - C++

4 Credit(s)

Prerequisite(s):

CIS 120 (formerly offered as CS120) and MTH 95 or higher-level math

Course Description: Presents the science of programming and problem solving. Emphasis is on a disciplined approach to algorithm development and problem-solving methods using the programming language C++. The course covers basic programming constructs, syntax, semantics, and logic of the C++ programming language. Topics include algorithms, simple data types, conditional and iterative structures, function definition, structured programming and documentation.

Course Learning Outcomes:

- CLO#1: Demonstrate a working knowledge of simple input and output functions.
- CLO#2: Demonstrate a functional understanding of various data structures including classes, strings, arrays, and variables of different data types. (ILO: Information Literacy)
- CLO#3: Demonstrate a functional understanding of the syntax of the C++ programming language.
- CLO#4: Identify selection and repetition control structures and their proper use in computer algorithms. (ILO: Critical Thinking)
- CLO#5: Solve programming problems using systematic methods of algorithm development and design.
- CLO#6: Demonstrate a functional understanding of programming by interpreting problem statements, analyzing, designing, implementing, and testing complete C++ programs. (ILO: Information Literacy)
- CLO#7: Demonstrate a working knowledge of file I/O.
- CLO#8: Demonstrate a functional understanding of multi-dimensional arrays.

Typical Required and Recommended Equipment and Materials: Access to a computer with Visual Studio installed.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term

CS 162J - Computer Science II - Java

4 Credit(s)

Prerequisite(s):

Course Description: Continues CIS161J, covering advanced programming techniques using Java. Topics include graphical user interface programming, advanced event handling, exception handling, streams, and basic file I/O. Advanced data structures and algorithms such as lists and maps are also covered. Object-oriented algorithms and design methods are emphasized.

Course Learning Outcomes:

- CLO#1: Demonstrate the knowledge and skills necessary to handle exceptions in a computer program.
- CLO#2: Demonstrate the knowledge and skills necessary to demonstrate a functional understanding of streams and file I/O.
- CLO#3: Demonstrate a functional understanding of advanced data structures including multi-dimensional arrays, lists and maps. (ILO: Critical Thinking)
- CLO#4: Acquire and evaluate written and lecture material to solve programming problems using systematic methods of algorithm development and design. (ILO: Information Literacy)
- CLO#5: Demonstrate a functional understanding of graphical user interface controls, event handling, streams and exception handling. (ILO: Information Literacy)

Typical Required and Recommended Equipment and Materials: Netbeans

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

CS 162U - Computer Science II - C++

4 Credit(s)

Prerequisite(s):

CS 161U

Course Description: Solves complex problems using advanced features of the C++ language. Topics include function usage, pointer data type, dynamic memory allocation, string manipulation, and structure and union data types. Emphasis is on structured program design techniques.

Course Learning Outcomes:

- CLO#1: Demonstrate a working knowledge of file I/O. (ILO: Critical Thinking)
- CLO#2: Demonstrate a functional understanding of multi-dimensional arrays.
- CLO#3: Demonstrate a functional understanding of pointers, including dynamic allocation and function pointers. (ILO: Information Literacy)
- CLO#4: Declare and manipulate strings, including ragged arrays.
- CLO#5: Create and use structures, unions, enumeration types, and elementary classes. (ILO: Information Literacy)
- CLO#6: Create a program using a linked list.

Typical Required and Recommended Equipment and Materials: Access to a computer with Visual Studio installed.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC deliver of (44) lecture hours per term, not to exceed (48) hours per term.

CS 234U - Object Oriented Programming in C++

4 Credit(s)

Prerequisite(s):

CS 162U

Course Description: A study of object-oriented programming with C++. Beginning and intermediate concepts are covered including classes, objects, member functions, overloading, inheritance, polymorphism, templates, and virtual functions. This course prepares students with a strong C++ background for transfer into upper-division coursework using C++ at a university.

Course Learning Outcomes:

- CLO#1: Demonstrate a working knowledge of the major concepts in Object Oriented Programming. (ILO: Critical Thinking)
- CLO#2: Demonstrate a functional understanding of Exception Handling and Debugging techniques.
- CLO#3: Design and write classes for use in C++ programs. (ILO: Critical Thinking)
- CLO#4: Demonstrate use of pre-existing classes in the C++ language in programs. (ILO: Critical Thinking)
- CLO#5: Create and use multiple types of constructors and destructors in classes.
- CLO#6: Use Source Control to manage complex programs.

Typical Required and Recommended Equipment and Materials: Access to a computer with Visual Studio installed.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

CS 260 - Data Structures I

4 Credit(s)

Prerequisite(s):

CS 162U or CS 234U and MTH 111Z

Corequisite(s):

MTH 251Z

Course Description: Studies the merge of abstract data types and the algorithms which

manipulate them. Topics include the study of elementary searching and sorting algorithms and hashing, and object-oriented implementation strategies for stacks, lists, queues, trees, binary trees, B-trees, and hash tables. For each data structure examined, common and useful algorithms that utilize such structures will be studied. Course also covers an introduction and application of complexity analysis: asymptotic analysis of upper and average complexity bounds, Big O(), Theta() and Omega() notation, as well as a general introduction to resource consumption, including the tradeoff between time and space.

Course Learning Outcomes:

- CLO#1: Define the concepts behind abstract data types and data structures.
- CLO#2: Correlate and implement various abstract data types in a programming language using multiple implementation strategies. (ILO: Critical Thinking)
- CLO#3: Select and use various data structures to solve problems and implement algorithms. (ILO: Critical Thinking)
- CLO#4: Write programs that use one or more of the data structures covered (lists, trees, hash tables, sets & bags).
- CLO#5: Explain the use of O(), Theta(), and Omega() to describe the amount of work done by an algorithm. Relate this to the consumption of resources (time/space) in real-world applications.
- CLO#6: Derive a running time equation and determine O() for a number of algorithms, starting from both source code and pseudo-code.
- CLO#7: Discuss the computational efficiency of inserting and retrieving data from various data structures and of the principal algorithms for sorting, searching and hashing.
- CLO#8: Discuss factors other than computational efficiency that influence the choice of certain data structures and algorithms.
- CLO#9: Be able to empirically determine the behavior of an algorithm and understand the limitations of this approach. (ILO: Critical Thinking)
- CLO#10: Write various sorting algorithms and understand their strengths and weaknesses.

Typical Required and Recommended Equipment and Materials: Software: To be determined based on language used.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

CS 275 - Data Base Development I

4 Credit(s)

Prerequisite(s):

CIS 125DB or previous database experience with approval of the Instructor.

Course Description: Provides students with an introduction to the concepts, skills, and tools involved in relational database design, implementation, and testing. Students will be introduced to and use Structured Query Language (SQL) for creating a client/server database and data manipulation. Covers relational database concepts, data anomalies, and data normalization. Entity-Relationship diagrams will be covered and used as a tool for designing a database system.

Course Learning Outcomes:

- CLO#1: Compare the relational model to other database models.
- CLO#2: Demonstrate Structured Query Language (SQL) to create database structures and manipulate data. (ILO: Information Literacy)
- CLO#3: Design a database system using Entity-Relationship Diagrams and Normalization methods. (ILO: Critical Thinking)
- CLO#4: Examine database issues in a client/server environment.
- CLO#5: Analyze, design, implement, and test a complete database system using Microsoft's SQL Server database management system.

Typical Required and Recommended Equipment and Materials: SQL Server software.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

Dental Assisting

DA 101 - Dental Assisting I

4 Credit(s)

Prerequisite(s):

Successful admittance to a Dental program.

Corequisite(s): DA 101L

Course Description: Offers an introductory overview of the dental assistant's role, focusing on terminology, instruments and equipment, professional practices, chairside procedures, and patient communication. Highlights the essential qualifications required for success in the dental assisting field.

Course Learning Outcomes:

- CLO#1: Explain the roles of dental health care professionals, demonstrating an understanding of dental terminology, and explain how each dental team member makes up the team.
- CLO#2: Identify the qualifications of dental team members and professional organizations within the field.
- CLO#3: Define the embryological and histological development of the dentition.
- CLO#4: Name and identify the tissues of the oral cavity and landmarks of the face. (ILO: Critical Thinking)
- CLO#5: Identify the basic principles of pharmacology, microbiology, and dental disease.
- CLO#6: Explain key considerations for providing patient care to individuals from diverse cultural, ethnic, and racial backgrounds.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

DA 101L - Dental Assisting I Lab

1 Credit(s)

Prerequisite(s):

Current or prior enrollment in DA 101 or Department approval.

Corequisite(s): DA 101

Course Description: Provides hands-on, clinical instruction of the lecture material presented in DA 101. Students demonstrate their capabilities and understanding of the dental assistant's role through clinical evaluation in a lab setting. Tasks practiced include, but are not limited to: use of dental terminology, dental tray set-up, recognition of instruments used by dentist, basic chairside procedures such as saliva evacuation, assisting during restorative treatment, four-handed dentistry, chairside charting using tooth numbering systems, and names of tooth surfaces. Students are introduced to the various day-to-day operations within a dental office.

Course Learning Outcomes:

CLO#1: Demonstrate proficiency in using diverse dental terminology

CLO#2: Identify common dental hand instruments and explain how they are used in delivering dental care.

CLO#3: Describe and perform the sterilization processes and principles of dental asepsis. (ILO: Critical Thinking)

CLO#4: Utilize basic instrumentation techniques for restorative procedures, including the proper selection and use of instruments.

CLO#5: Demonstrate effective moisture control techniques to ensure successful dental restorations.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required State minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

DA 103 - Dental Materials

1 Credit(s)

Prerequisite(s): Successful admittance into a Dental program.

Corequisite(s): DA 103L

Course Description: Introduces materials used in a dental office including impression materials, model and die materials, fabrication of dental trays, preventive dental materials, esthetic and restorative dental materials, amalgam, dental cements, waxes, and temporary restorative materials. Course is dual numbered as DH 104.

Course Learning Outcomes:

- CLO#1: Describe the legal standards that govern the properties of dental materials.
- CLO#2: Identify and compare the differences and uses for various dental materials. (ILO: Critical Thinking)
- CLO#3: Describe and explain the hazards associated with dental materials and chemicals including how hazardous materials must be safely handled and properly disposed.
- CLO#4: Define and identify differences between force, stress, strain, elastic limit, ultimate strength, ductility, malleability and hardness.
- CLO#5: Describe the preventive dental materials used in the dental office, their composition and manipulation techniques.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

DA 103L - Dental Materials Lab

1 Credit(s)

Prerequisite(s): Successful admittance into a Dental program.

Corequisite(s): DA 103

Course Description: Hands-on activities using materials in a dental office including impression materials, model and die materials, fabrication of dental trays, preventive dental materials, esthetic and restorative dental materials, amalgam, dental cements, waxes, and temporary restorative materials. Course is dual numbered as DH 104L.

Course Learning Outcomes:

- CLO#1: Demonstrate use of dental materials in a laboratory setting. (ILO: Critical Thinking)
- CLO #2: Identify the names, functions, and proper handling techniques of dental lab equipment.
- CLO #3: Assemble the proper armamentarium of a variety of dental materials used for different dental procedures.
- CLO #4: Implement proper infection control protocols in a dental laboratory setting.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required State minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

DA 104 - Dental Administration

2 Credit(s)

Prerequisite(s):

Successful admittance to a Dental program.

Course Description: Introduces office management and administrative skills that are required in a dental setting. Students will become familiar and practice communication skills, written correspondence, patient relations, team communications, patient clinical records, information management, patient scheduling and recall systems, dental insurance processing, inventory management, financial arrangements, collection procedures, accounts receivable and payable, and employment strategies.

Course Learning Outcomes:

- CLO#1: Develop mock patient files (computerized and manual) that includes information used/required by the dental office.
- CLO#2: Discuss types of documents and written communications office used in a dental office. (ILO: Communication)
- CLO#3: Demonstrate using common scheduling procedures.
- CLO#4: Discuss all aspects of dental insurance.
- CLO#5: Discuss the importance of accuracy in inventory control in a dental practice (computerized and manual).
- CLO#6: List the procedures the Dental Practice Act allows dental assistants to perform.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, (24) hours per term.

DA 106 - Dental Emergency Management

1 Credit(s)

Prerequisite(s):

Successful admittance to a Dental program.

Corequisite(s): DA 106L

Course Description: Emphasizes prevention and treatment of the most common medical emergencies in the dental office. Covers the preparation of the office and staff to deal with these emergencies, including gathering patient information, such as a health history and vital signs. Discusses the use of emergency equipment and supplies. This course is dual numbered as DH 106.

Course Learning Outcomes:

- CLO#1: Distinguish between the treatments of various emergency-related conditions.
- CLO#2: Identify patient groups at higher risk for medical emergencies.
- CLO#3: Identify causes of airway obstructions and demonstrate opening the airway.
- CLO#4: List the essential and non-essential components of an emergency kit in the dental office. (ILO: Information Literacy)
- CLO#5: Explain the significance of taking and accurately recording vital signs.
- CLO#6: Explain the various methods and the proper methodology for oxygen administration.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture (seminar) hours per term, not to exceed (12) hours per term.

DA 106L - Dental Emergency Management Lab**1 Credit(s)**

Prerequisite(s): Successful admittance to a Dental program.

Corequisite(s): DA 106

Course Description: Covers routine preparedness for dental team members through hands-on scenario-based activities: the dental assistant's role in emergency care, managing a dental office emergency kit, the ABC's of CPR (airway/breathing/circulation), foreign body airway obstruction, the causes, signs, and treatment of medical emergencies, and specific dental emergencies. Course is dual numbered as DH 106L.

Course Learning Outcomes:

- CLO#1: Obtain vital signs, including blood pressure, pulse rate, respiratory rate, and temperature.
- CLO#2: Explain strategies used by dental office staff to prevent medical emergencies. (ILO: Information Literacy)
- CLO#3: Identify possible emergency situations in the dental office and actions for prevention and discern the duties of different office personnel in an emergency.
- CLO#4: Demonstrate possible emergency situations in the dental office and actions for prevention and discern the duties of different office personnel in an emergency.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required State minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

DA 107 - Comm and Professional Behavior - DA**3 Credit(s)**

Course Description: Prepares dental assisting students with vital communication skills for effective patient interactions and teamwork in the dental setting. Students will learn culturally competent communication, therapeutic strategies, and essential written and oral patient education and documentation skills with dental patients. In addition, students will learn workplace ethics and professionalism to enhance patient experiences and outcomes. Formerly offered as AH105.

Course Learning Outcomes:

- CLO#1: Compare and contrast therapeutic and nontherapeutic communication.
- CLO#2: Identify barriers to multicultural therapeutic communication.
- CLO#3: Identify personal goals to improving culturally competent communication and behavioral skills. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#4: Analyze conflict in the workplace and provide solutions for resolution.
- CLO#5: Perform motivational interviewing techniques and describe patient goal setting.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term

DA 123 - Legal - Ethical Issues in Dentistry

2 Credit(s)

Prerequisite(s):

Successful admittance to the Dental program.

Course Description: Exposes the student to variety of legal and ethical dilemmas in dentistry, helping students become more prudent and confident professionals. Students will become familiar with the legal system, the legal rights that define relationships between individuals, quality assurance, office protocols and patient records, and legal issues that affect employment. Course is dual numbered as DH 123.

Course Learning Outcomes:

- CLO#1: Describe the differences between laws and ethics and the major components of ethical theories.
- CLO#2: Describe the major components of the American legal system, with emphasis on how dentistry is regulated on the State and Federal level.
- CLO#3: Define malpractice in the dental profession and describe the possible consequences of professional negligence. (ILO: Information Literacy)
- CLO#4: Define contract, describe the types of contracts and who may enter into a contract, and the possible consequences of breaching a contract.
- CLO#5: Define and describe the different types of consent for dental treatment and the legal and ethical boundaries regarding who may give consent.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

DA 150 - Intro to Practicum and Seminar

2 Credit(s)

Prerequisite(s):

Successful completion of the first term of the Dental Assistant program.

Course Description: Provides an extensive overview of office responsibilities, work ethics and prepares students for the challenges of their multiple roles in the dental office including: guest, intern, administrative assistant, chairside assistant and housekeeping worker. Students will review and discuss the expectations and protocols for their upcoming practicum classes including but not limited to: the stages of an internship, the weekly required paperwork, work ethics,

industry safety standards and strategies for meeting their learning objectives.

Course Learning Outcomes:

CLO#1: Determine the components of a dental industry resume and produce industry specific preemployment documents. (ILO Information Literacy)

CLO#2: Identify required skills and abilities for dental clinical roles and create documentation for dental clinical placement.

CLO#3: Describe and discuss the scope of student responsibilities and phases of development within the dental practicum.

CLO#4: Describe and demonstrate effective communication principles and skills required in the dental setting.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

DA 152 - Practicum for the DA I

6 Credit(s)

Prerequisite(s): Successful completion of the first two terms of a Dental program.

Course Description: Students are required to complete an average of 27 hours per week (up to 216 hours per term) as part of the dental team. Duties are assigned based on the student's skill level and the needs of each site. Students gain hands-on experience in the daily operations of dental offices, working as chair-side dental assistants and front-office personnel. Throughout the sequence, students will progress from entry-level duties to mid-level and advanced responsibilities as appropriate.

Course Learning Outcomes:

CLO#1: Perform chairside assisting functions at both entry-level and advanced levels in a clinical setting.

CLO#2: Accurately describe experiences and set personal goals based on instructor feedback and peer review. (ILO: Communication)

CLO#3: Apply feedback from clinical staff to enhance professional skills.

CLO#4: Provide professional feedback to others.

CLO#5: Adhere to facility and dental assisting program policies.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

CLINICAL/LAB PORTION: A required state minimum of (180) and a standard RCC delivery of (198) lab hours per term, not to exceed (216) hours per term.

DA 153 - Practicum and Seminar for the DA II

5 Credit(s)

Prerequisite(s):

Successful completion of the first three terms of the Dental Assistant program.

Course Description: Students work an average of 13 per week in a host site (132 hours per term) as part of the dental team. Duties will be assigned according to the student's skill level and the work needs of the host site. Students experience first-hand the daily operations within a dental office as chair-side dental assistants and front office personnel. Students will expand their skill set during the sequence with mid-level and advanced duties as appropriate. Moderated by an Instructor, seminars are designed to define expectations, discuss progress, and evaluate current practicum experiences.

Course Learning Outcomes:

- CLO#1: Perform advanced level chairside assisting functions in a clinical setting.
- CLO#2: Improve personal skill set by learning from clinical staff feedback.
- CLO#3: Accurately describe experiences and set personal goals according to Instructor feedback and peer review. (ILO: Communication)
- CLO#4: Provide professional feedback to others.
- CLO#5: Adhere to facility and dental assisting program policies.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

LECTURE PORTION: A required state minimum of (10) and a standard RCC delivery of (11) lecture (seminar) hours per term, not to exceed (12) hours per term.

CLINICAL/LAB PORTION: A required state minimum of (120) and a standard RCC delivery of (132) hours per term, not to exceed (144) hours per term.

DA 201 - Dental Radiology

4 Credit(s)

Prerequisite(s): Successful admittance to a Dental program.

Course Description: Prepares students for Dental Board Exams. Students will study the following sections: radiation safety for the patient, radiation safety for the operator, exposing and evaluating radiographs, and techniques used in performing a full mouth radiologic exam. Course is dual numbered as DH 204.

Course Learning Outcomes:

- CLO#1: Describe and discuss the clinical operation of the X-ray machine. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Identify anatomical structures, development anomalies, and disease of the oral cavity.
- CLO#3: Describe standards for radiograph exposure and viewing, and explain their application in dental practice.
- CLO#4: Describe the clinical management of patients and their dental records.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lab hours per term, not to exceed (48) hours per term.

DA 201L - Radiology Lab**2 Credit(s)****Prerequisite(s):**

Successful admittance to a Dental program.

Course Description: Prepares the students for the Oregon Board Exam. Students will take radiographs on a manikin and on live patients. Course is dual numbered as DH 204L.

Course Learning Outcomes:

- CLO#1: Demonstrate standard techniques used to keep both a patient and/or operator safe from overexposure to radiation.
- CLO#2: Demonstrate radiographic techniques by producing a full-mouth set of diagnostic-quality radiographs. (ILO: Critical Thinking)
- CLO#3: Describe methods of patient management using interpersonal skills and education.
- CLO#4: Describe the infection control procedures that are necessary before, during and after radiation exposure.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lab hours per term, not to exceed (72) hours per term.

DA 202 - Dental Infection Control**1 Credit(s)****Prerequisite(s):**

Successful admittance to a Dental program.

Corequisite(s): DA 202L

Course Description: Foundational concepts of infection control, standard precautions, hand hygiene practices, personal protective equipment (PPE) usage, proper sterilization and disinfection techniques, sharps safety, respiratory hygiene, environmental cleaning protocols, dental unit water quality management, and compliance with relevant regulations, all tailored to the dental practice setting. Course is dual numbered as DH 205.

Course Learning Outcomes:

- CLO#1: Describe infectious diseases and their relationship to dental patient and workplace safety.
- CLO#2: Identify regulatory agencies that oversee workplace and safety standards. (ILO: Critical Thinking).

CLO#3: Describe waste management using green technology to include water line maintenance and hazardous waste disposal.

CLO#4: Describe standards and guidelines of occupational safety and infection control for dental personnel.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture (seminar) hours per term, not to exceed (12) hours per term.

DA 202L - Dental Infection Control Lab

1 Credit(s)

Prerequisite(s): Successful admittance to a Dental program.

Corequisite(s): DA 202

Course Description: Through hands-on / scenario-based activities, students will prepare for the following sections: patient and dental healthcare worker education, standard/ universal precautions and prevention of disease transmission, prevention of cross-contamination, maintaining aseptic conditions, performing disinfection sterilization procedures, environmental asepsis, and occupational safety. Course is dual numbered with DH205L.

Course Learning Outcomes:

CLO#1: Identify regulatory agencies that oversee workplace and safety standards. (ILO: Critical Thinking)

CLO#2: Demonstrate waste management using green technology to include water line maintenance and hazardous waste disposal.

CLO#3: Demonstrate occupational safety and infection control for dental personnel.

CLO#4: Apply infection control techniques to ensure personal and patient safety in the dental setting.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required State minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

DA 204L - Expanded Functions for the DA Lab

1 Credit(s)

Prerequisite(s): Successful completion of the first three terms of a Dental program.

Course Description: Provides hands-on, clinical instruction of the lecture material presented in DA 205. The student will practice and become familiar with the clinical skills required for an expanded function dental assistant (EFDA). Expanded functions are determined by the Oregon Board of Dentistry and may change without prior notice.

Course Learning Outcomes:

CLO#1: Perform clinical procedures related to preventive, restorative, and expanded clinical care. (ILO: Critical Thinking)

CLO#2: Identify and demonstrate elements of a patient intra- and extra-oral examination.

CLO#3: Accurately place pit and fissure dental sealants.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

DA 205 - Adv Assisting - Expanded Functions**4 Credit(s)**

Prerequisite(s): Successful completion of the first term of a Dental program.

Course Description: This board prep course prepares students for the Dental Assisting National Board (DANB) exams. Topics include clinical data collection, chairside procedures, oral anatomy, dental materials (preparation, manipulation, application), lab materials and procedures, patient education, infection control, occupational safety, legal issues, emergency management, and office procedures. The course also presents the theory and practice of legal Expanded Functions for dental assistants, including discussion, demonstration, and practical application of skills such as intra- and extra-oral exams, coronal polishing, topical fluoride application, amalgam and composite polishing, provisional coverage, suture removal, cement removal, retraction cord placement, pit and fissure sealant placement, and tooth whitening.

Course Learning Outcomes:

CLO#1: Describe chairside assisting techniques, including the proper use of instruments, materials, and procedures.

CLO#2: Describe crown and bridge set-up procedures and fixed and removable prostheses. (ILO: Critical Thinking)

CLO#3: Conduct a dietary assessment for the patient and provide nutritional guidance.

CLO#4: Describe a patient's home care routine and provide oral hygiene instructions.

CLO#5: Explain the different isolation techniques.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

DA 205L - Advanced Chairside Assisting**1 Credit(s)**

Prerequisite(s): Successful completion of the first term of a Dental program.

Course Description: Provides hands-on, clinical instruction of the lecture material presented in

DA 205. Students will repeat certain hands-on skills with an expectation of greater proficiency. Students demonstrate their capabilities and understanding of the dental assistant's role through clinical evaluation in a lab setting. Tasks practiced include use of dental terminology, dental tray set-up, recognition of instruments used by dentists, basic chairside procedures, assisting during restorative treatment, fourhanded dentistry, and chair-side charting. Students are introduced to the various day-to-day operations within a dental office. Students will also learn how to perform soft-tissue examinations, take dental impressions and collect vital statistics.

Course Learning Outcomes:

- CLO#1: Systematically collect diagnostic data and accurately perform dental charting. (ILO: Critical Thinking)
- CLO#2: Perform a variety of clinical supportive treatment with accuracy and proficiency.
- CLO#3: Demonstrate proper alginate impression techniques and bite registration and provide rationale for their usage.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

DA 206 - Dental Specialties

1 Credit(s)

Prerequisite(s):

Successful completion of the first two terms of a Dental program.

Corequisite(s): DA 206L

Course Description: Studies the various fields of specialized dentistry recognized by the American Dental Association.

Course Learning Outcomes:

- CLO#1: Identify the various dental specialties.
- CLO#2: Identify the general principles associated with each dental specialty, including but not limited to orthodontics, periodontics, endodontics, prosthodontics, and oral surgery, forensic dentistry, pediatrics, and public health.
- CLO#3: Discuss legally delegable dental assisting skills specific to each dental specialty.
- CLO#4: Apply patient management skills using psychological concepts and communication techniques. (ILO: Communication)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

DA 206L - Dental Specialties Lab

1 Credit(s)

Prerequisite(s): Successful completion of the first two terms of a Dental program.

Corequisite(s): DA206

Course Description: Introduces applied psychology through role-playing as related to the clinical application in dental specialties. Guest speakers representing dental specialties may be scheduled.

Course Learning Outcomes:

CLO#1: Identify the various principles and armamentariums of the different dental specialties.

CLO#2: Demonstrate patient management skills through the use of psychological concepts and communication skills. (ILO: Critical Thinking)

CLO#3: Demonstrate legally delegable dental assisting skills specific to each dental specialty.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

Dental Hygiene

DH 100 - Pre-Dental Hygiene

2 Credit(s)

Course Description: This course introduces the basic knowledge and skills needed to provide basic dental hygiene services. The course will review basic dental terminology. The students will learn how to assess a patient's oral health needs and plan dental hygiene treatment to meet those needs.

Course Learning Outcomes:

CLO#1: Apply critical thinking skills and evidence-based decision making to the practice of dental hygiene.

CLO#2: Research and evaluate career opportunities related to dental hygienist.

CLO#3: Develop a planned sequence of educational and clinical services based on the dental hygiene diagnosis using the problem-based approach. (ILO: Information Literacy)

CLO#4: Analyze and interpret the assessment data to formulate a dental hygiene diagnosis related to and congruent with the diagnosis of the dentist and other health professionals.

CLO#5: Determine medical conditions that require special precautions or consideration prior to or during dental hygiene treatment.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required State minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

DH 101 - Dental Hygiene Theory I

4 Credit(s)

Prerequisite(s):

Successful admittance to a Dental program.

Course Description: Introduces the dental hygiene profession, fundamentals, concepts and processes to the student. Introduces evidence-based research to sustain health behaviors, while applying it legally and ethically.

Course Learning Outcomes:

- CLO#1: Gather and document a client's personal, dental and medical information.
- CLO#2: Evaluate the extraoral and intraoral clinical findings.
- CLO#3: Analyze oral findings to assess health risks and recommend treatment modalities.
- CLO#4: Correctly document diagnosis, care, and evaluation. (ILO: Critical Thinking)
- CLO#5: Create a treatment plan based on an oral-systemic health connection, using evidence-based studies and practice.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (40) and a standard RCC deliver of (44) lecture hours per term, not to exceed (48) hours per term.

DH 101L - Dental Hygiene Practice I

2 Credit(s)

Prerequisite(s):

Successful admittance to the Dental Hygiene Program.

Course Description: Introduces the clinical experience in the treatment of adult and child patients. Various clinical procedures utilizing scaling and polishing techniques, oral inspection, cancer screening, dental and periodontal charting principles of ultrasonic scaling, plaque control instruction and fluoride applications.

Course Learning Outcomes:

- CLO#1 Evaluate and analyze vital signs, medical and dental health history and perform a medical consultation.
- CLO#2 Evaluate and demonstrate treatment procedures, both extraoral and intraoral.
- CLO#3 Describe and classify oral health indices, occlusion, and oral habits. (ILO: Communication)
- CLO#4 Identify, detect and perform the removal of supra and subgingival calculus, with both ultrasonic and hand instrumentation.
- CLO#5 Employ safe practices in both treatment and infection control procedures.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lab hours per term, not to exceed (72) hours per term.

DH 102 - Dental Hygiene Theory II**4 Credit(s)**

Prerequisite(s): Successful completion of the first term of a Dental program.

Course Description: Introduces dental hygiene assessment, diagnosis and treatment plans. Students will use critical thinking skills to gather health facts, document findings, assess oral health risks, and propose care plans.

Course Learning Outcomes:

- CLO#1: Describe the legal standards that govern the practice of dental hygiene.
- CLO#2: Analyze the terminology used in the dental hygiene profession.
- CLO#3: Compare and contrast the various applications of evidence-based research and the strategies for implementing these findings in a real-world context.
- CLO#4: Describe Maslow's hierarchy of needs and the dental hygienist's role in promoting the patient's whole-body health.
- CLO#5: Demonstrate therapeutic communication techniques. (ILO: Communication)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (40) and a standard RCC deliver of (44) lecture hours per term, not to exceed (48) hours per term.

DH 102L - Dental Hygiene Practice II**3 Credit(s)****Prerequisite(s):**

Successful completion of the first term of the Dental Hygiene program.

Course Description: Advanced clinical procedures utilizing scaling and polishing techniques, oral inspection, cancer screening, dental and periodontal charting. Principles of ultrasonic scaling, plaque control instruction and fluoride applications. Introduction to early periodontal therapeutic treatment.

Course Learning Outcomes:

- CLO#1 Explain the importance of gathering and documenting client's personal, dental and medical information.
- CLO#2 Identify and apply oral findings for proper treatment, including preventative and/or therapeutic recommendations.
- CLO#3 Select and design individualized oral and dietary behaviors for clients, using evidence-based knowledge. (ILO: Communication)
- CLO#4 Integrate classroom studies into the clinical setting, building upon each clinical practice to increase and refine skill sets.

Typical Required and Recommended Equipment and Materials: Dental Hygiene instrument and equipment package to be determined.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (90) and a standard RCC delivery of (99) lab hours per term, not to exceed (108) hours per term.

DH 103 - Dental Hygiene Theory III

3 Credit(s)

Prerequisite(s): Successful completion of the first two terms of a Dental program.

Course Description: Introduces a full realm of dental evaluation, implementation, therapy and documentation. Students will learn how to provide all dental hygiene care and diagnosis that falls within their scope of practice. Students will also be introduced to specialty care provided by Dentists, and how to provide care to patients in different stages of life.

Course Learning Outcomes:

CLO#1: Describe and implement oral hygiene aids for the control of biofilm.

CLO#2: Demonstrate the use of hand and ultrasonic instruments, instrumentation on root morphology and dental implants.

CLO#3: Differentiate between home and office whitening procedures. (ILO: Critical Thinking)

CLO#4: Explain the properties and use of preventative dental materials.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A state required minimum of (30) and a standard RCC deliver of (33) lecture hours per term, not to exceed (36) hours per term.

DH 103L - Dental Hygiene Practice III

4 Credit(s)

Prerequisite(s):

Successful completion of first two (2) terms of the Dental Hygiene program.

Course Description: Advanced clinical procedures utilizing scaling and polishing techniques, oral inspection, cancer screening, dental and periodontal charting. Principles of ultrasonic scaling, plaque control instruction and fluoride applications. Advanced periodontal therapeutic treatment implementation of radiographic findings and medicament use.

Course Learning Outcomes:

CLO#1 Recognize and outline the relationship between periodontal disease and systemic health.

CLO#2 Identify and report periodontal diagnosis, prognosis, and treatment. (ILO: Communication)

- CLO#3 Demonstrate preventative and therapeutic dental hygiene procedures.
CLO#4 Develop and employ clinical skills to practice dental hygiene to the level of the
"Standard of Care."

Typical Required and Recommended Equipment and Materials: To be determined.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A state required minimum of (120) and a standard RCC deliver of (132) lab hours per term, not to exceed (144) hours per term.

DH 104 - Dental Materials

1 Credit(s)

Prerequisite(s):

Successful admittance into a Dental program.

Corequisite(s): DH 104L

Course Description: Introduces materials used in a dental office including impression materials, model and die materials, fabrication of dental trays, preventive dental materials, esthetic and restorative dental materials, amalgam, dental cements, waxes, and temporary restorative materials. Course is dual-numbered as DA 103.

Course Learning Outcomes:

- CLO#1: Describe the legal standards that govern the properties of dental materials.
CLO#2: Identify and compare the differences and uses for various dental materials. (ILO: Critical Thinking)
CLO#3: Describe and explain the hazards associated with dental materials and chemicals including how hazardous materials must be safely handled and properly disposed.
CLO#4: Define and identify differences between force, stress, strain, elastic limit, ultimate strength, ductility, malleability and hardness.
CLO#5: Describe the preventive dental materials used in the dental office, their composition and manipulation techniques.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

DH 104L - Dental Materials Lab

1 Credit(s)

Prerequisite(s):

Successful admittance into a Dental program.

Corequisite(s): DH 104

Course Description: Hands-on activities using materials in a dental office including impression materials, model and die materials, fabrication of dental trays, preventive dental materials, esthetic and restorative dental materials, amalgam, dental cements, waxes, and temporary restorative materials. Course is dual-numbered as DA 103L.

Course Learning Outcomes:

CLO#1: Demonstrate use of dental materials in a laboratory setting. (ILO: Critical Thinking)

CLO #2: Identify the names, functions, and proper handling techniques of dental lab equipment.

CLO #3: Assemble the proper armamentarium of a variety of dental materials used for different dental procedures.

CLO #4: Implement proper infection control protocols in a dental laboratory setting.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required State minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

DH 106 - Dental Emergency Management

1 Credit(s)

Prerequisite(s): Successful admittance to a Dental program.

Corequisite(s): DH 106L

Course Description: Emphasizes prevention and treatment of the most common medical emergencies in the dental office. Covers the preparation of the office and staff to deal with these emergencies, including gathering patient information, such as a health history and vital signs. Discusses the use of emergency equipment and supplies. Course is dual-numbered as DA 106.

Course Learning Outcomes:

CLO#1: Distinguish between the treatments of various emergency-related conditions.

CLO#2: Identify patient groups at higher risk for medical emergencies.

CLO#3: Identify causes of airway obstructions and demonstrate opening the airway.

CLO#4: List the essential and non-essential components of an emergency kit in the dental office. (ILO: Information Literacy)

CLO#5: Explain the significance of taking and accurately recording vital signs.

CLO#6: Explain the various methods and the proper methodology for oxygen administration.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

DH 106L - Dental Emergency Management Lab

1 Credit(s)

Prerequisite(s): Successful admittance to a Dental program.

Corequisite(s): DH 106

Course Description: Covers routine preparedness for dental team members through hands-on scenario-based activities: the dental assistant's role in emergency care, managing a dental office emergency kit, the ABC's of CPR (airway/breathing/circulation), foreign body airway obstruction, the causes, signs, and treatment of medical emergencies, and specific dental emergencies. Course is dual numbered as DA 106L.

Course Learning Outcomes:

- CLO#1: Obtain vital signs, including blood pressure, pulse rate, respiratory rate, and temperature.
- CLO#2: Explain strategies used by dental office staff to prevent medical emergencies. (ILO: Information Literacy)
- CLO#3: Identify possible emergency situations in the dental office and actions for prevention and discern the duties of different office personnel in an emergency.
- CLO#4: Demonstrate possible emergency situations in the dental office and actions for prevention and discern the duties of different office personnel in an emergency.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required State minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (33) hours per term.

DH 113 - Dental Head and Neck Anatomy

4 Credit(s)

Prerequisite(s): Acceptance into a Dental program.

Course Description: This course studies the anatomical structures of the head and neck regions and relates these structures to the clinical practice of dental hygiene.

Course Learning Outcomes:

- CLO#1: Explain and identify the anatomy and muscular system of the head and neck and their functions.
- CLO#2: Construct the anatomy of the temporomandibular joint and demonstrate its function.
- CLO#3: Locate and explain the anatomy and physiology of the glandular tissue, nervous system, and the lymphatic system of the head and neck.
- CLO#4: Explain and illustrate the fascial spaces and blood supply of the head and neck.
- CLO#5: Synthesize information acquired in a critical, scientific and effective manner. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (40) and a standard RCC deliver of (44) lecture hours per term, not to exceed (48) hours per term.

DH 123 - Legal - Ethical Issues in Dentistry**2 Credit(s)****Prerequisite(s):**

Successful admittance to a Dental program.

Course Description: Exposes the student to variety of legal and ethical dilemmas in dentistry, helping students become more prudent and confident professionals. Students will become familiar with the legal system, the legal rights that define relationships between individuals, quality assurance, office protocols and patient records, and legal issues that affect employment. Course is dual-numbered as DA 123.

Course Learning Outcomes:

- CLO#1 Describe the differences between laws and ethics and the major components of ethical theories.
- CLO#2 Describe the major components of the American legal system, with emphasis on how dentistry is regulated on the State and Federal level. (ILO: Information Literacy)
- CLO#3 Define "malpractice" in the dental profession and describe the possible consequences of professional negligence.
- CLO#4 Define "contract", describe the types of contracts and who may enter into a contract, and the possible consequences of breaching a contract.
- CLO#5 Define and describe the different types of consent for dental treatment and the legal and ethical boundaries regarding who may give consent.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

DH 200 - Oral Biology**2 Credit(s)**

Prerequisite(s): Successful admittance into a Dental program.

Course Description: Studies of histology and embryology of oral structural formation, clinical recognition of normal oral structures, the physiological and structural functions of teeth and supporting tissues, and oral anatomy to proper dental hygiene procedures.

Course Learning Outcomes:

- CLO#1: Differentiate the structures and functions of the head and neck, including relevant terminology.
- CLO#2: Assess the anatomical considerations for patient examination of the head and neck region.

CLO#3: Summarize the stages of orofacial development.

CLO#4: Analyze and discuss the histology of the oral region. (ILO: Critical Thinking)

CLO#5: Describe and assess occlusion and the morphological detail of the oral anatomy.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (20) and a standard RCC deliver of (22) lecture hours per term, not to exceed (24) hours per term.

DH 201 - Dental Hygiene Theory IV

2 Credit(s)

Prerequisite(s):

Successful completion of the first year of the Dental Hygiene program.

Course Description: Introduces dental hygiene students to the characteristic of individual patients, motivations, and management of patients with specific challenges. Includes the treatment of the compromised patient and myofunctional therapy.

Course Learning Outcomes:

CLO#1 Identify and analyze the needs of infant, toddler or pregnant patient.

CLO#2 Describe the dominate theories of aging.

CLO#3 Describe and breakdown the psychological responses of patients and dental professional.

CLO#4 Discuss and demonstrate dental hygiene care for the mentally impaired patient. (ILO: Communication)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (20) and a standard RCC deliver of (22) lecture hours per term, not to exceed (24) hours per term.

DH 201L - Dental Hygiene Practice IV

5 Credit(s)

Prerequisite(s):

Successful completion of the first year of the Dental Hygiene program.

Course Description: Advanced clinical procedures utilizing scaling and polishing techniques, oral inspection, cancer screening, dental and periodontal charting principles of ultrasonic scaling, plaque control instruction and fluoride applications. Advanced periodontal therapeutic treatment, with advanced use of radiographic findings and medicament use.

Course Learning Outcomes:

- CLO#1 Analyze and describe the relationship between periodontal disease and systemic health.
- CLO#2 Identify and define periodontal diagnosis, prognosis, and treatment.
- CLO#3 Construct findings with the use of radiographics, to diagnose, and create a treatment plan. (ILO: Communication)
- CLO#4 Develop and apply clinical skills to exercise dental hygiene to the level of the "Standard of Care."

Typical Required and Recommended Equipment and Materials: To be determined.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A state required minimum of (150) and a standard RCC deliver of (165) lab hours per term, not to exceed (180) hours per term.

DH 202 - Dental Hygiene Theory V

2 Credit(s)

Prerequisite(s):

Successful completion of the first four terms of the Dental Hygiene program.

Course Description: Introduces pain management and control with the use of medicaments, topical and local anesthesia, and nitrous oxide-oxygen analgesia. Students will learn the causes of enamel loss and hypersensitivity, in addition to the recommended treatments.

Course Learning Outcomes:

- CLO#1 Compare and contrast factors involved in caries management. (ILO: Communication)
- CLO#2 Determine and describe the professionally applied fluorides for caries management
- CLO#3 Select and discuss management of dental hypersensitivity.
- CLO#4 Analyze and discuss the chemistry, pharmacology, and physiology of nitrous oxide-oxygen (N₂O-O₂).
- CLO#5 Define and differentiate the three types of injections: local infiltration, field block, and nerve block.
- CLO#6 Formulate the possible local and systemic complications from local anesthetic administration and explain the proper management.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A state required minimum of (20) and a standard RCC deliver of (22) lecture hours per term, not to exceed (24) hours per term.

DH 202L - Dental Hygiene Practice V

6 Credit(s)

Prerequisite(s):

Successful completion of the first four terms of the Dental Hygiene program.

Course Description: Advanced clinical procedures utilizing scaling and polishing techniques, oral inspection, cancer screening, dental and periodontal charting principles of ultrasonic scaling, plaque control instruction and fluoride applications. Advanced periodontal therapeutic treatment with advanced use of radiographic findings, and use of local anesthesia/analgesia and medicament.

Course Learning Outcomes:

- CLO#1 Identify and distinguish periodontal abscesses; causes, signs and symptoms, and treatments.
- CLO#2 Explain necrotizing periodontal diseases and identify causes, signs and symptoms, and treatments.
- CLO#3 Demonstrate and evaluate preventative and therapeutic dental hygiene procedures, (ILO: Critical Thinking)
- CLO#4 Recognize and apply clinical skills to exercise dental hygiene to the level of the "Standard of Care."

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (180) and a standard RCC deliver of (198) lab hours per term, not to exceed (216) hours per term.

DH 203 - Dental Hygiene Theory VI

2 Credit(s)

Prerequisite(s):

Successful completion of the first five terms of the Dental Hygiene program.

Course Description: Introduces professional development, practice management, and job searching skills within the dental hygiene profession. Students will create an oral health care program and provide care in a community health project.

Course Learning Outcomes:

- CLO#1 Identify and evaluate techniques used for successful practice management.
- CLO#2 Discuss and design a time management and scheduling protocol.
- CLO#3 Appraise and compare economic considerations for a profitable practice. (ILO: Critical Thinking)
- CLO#4 Recognize and discuss professional opportunities in dental hygiene as a career.
- CLO#5 Apply the ethical decision-making framework to resolve ethical dilemmas encountered in practice.

Typical Required and Recommended Equipment and Materials: Dependent upon health care project implemented. (to be determined)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (20) and a standard RCC deliver of (22) lecture hours per term, not to exceed (24) hours per term.

DH 203L - Dental Hygiene Practice VI

6 Credit(s)

Prerequisite(s):

Successful completion of the first five terms of the Dental Hygiene program.

Course Description: Advanced clinical procedures utilizing scaling and polishing techniques, oral inspection, cancer screening, dental and periodontal charting principles of ultrasonic scaling, plaque control instruction and fluoride applications. Advanced periodontal therapeutic treatment and use of radiographic findings, use of local anesthesia/analgesia and medicament use, and approach to restorative dentistry.

Course Learning Outcomes:

- CLO#1 Analyze and describe the causes of the progression of periodontal disease.
- CLO#2 Identify periodontal diagnosis, prognosis, and treatment.
- CLO#3 Demonstrate effective preventative and therapeutic dental hygiene. (ILO: Communication)
- CLO#4 Develop and apply clinical skills to exercise dental hygiene to the level of the "Standard of Care."
- CLO#5 Recall and practice use of medicaments.

Typical Required and Recommended Equipment and Materials: To be determined

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (180) and a standard RCC delivery of (198) lab hours per term, not to exceed (216) hours per term.

DH 204 - Dental Radiology

4 Credit(s)

Prerequisite(s): Successful admittance to a Dental program.

Corequisite(s): DH 204L

Course Description: Prepares students for Dental Board Exams. Students will study the following sections: radiation safety for the patient, radiation safety for the operator, exposing and evaluating radiographs, processing films, mounting and labeling radiographs, and techniques used in performing a full mouth radiologic exam. Course is dual-numbered as DA 201.

Course Learning Outcomes:

- CLO#1: Describe and discuss the clinical operation of the X-ray machine. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Identify anatomical structures, development anomalies, and disease of the oral cavity.

CLO#3: Describe standards for radiograph exposure and viewing, and explain their application in dental practice.

CLO#4: Describe the clinical management of patients and their dental records.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

DH 204L - Radiology Lab

2 Credit(s)

Prerequisite(s):

Successful admittance to the Dental Assistant program or the Dental Hygiene program.

Corequisite(s): DH 204

Course Description: Prepares the students for the Oregon Board Exam. Students will take radiographs on a manikin and on live patients. Course is dual numbered as DA 201L.

Course Learning Outcomes:

CLO#1 Demonstrate standard techniques used to keep both a patient and operator safe from overexposure to radiation.

CLO#2 Demonstrate radiographic techniques by producing a full-mouth set of diagnostic-quality radiographs. (ILO: Critical Thinking)

CLO#3 Describe methods of patient management using interpersonal skills and education.

CLO#4 Describe the infection control procedures that are necessary before, during and after radiation exposure.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lab hours per term, not to exceed (72) hours per term.

DH 205 - Dental Infection Control

1 Credit(s)

Prerequisite(s): Successful admittance to a Dental program.

Corequisite(s): DH 205L

Course Description: Foundational concepts of infection control, standard precautions, hand hygiene practices, personal protective equipment (PPE) usage, proper sterilization and disinfection techniques, sharps safety, respiratory hygiene, environmental cleaning protocols, dental unit water quality management, and compliance with relevant regulations, all tailored to the dental practice setting. Course is dual-numbered as DA 202.

Course Learning Outcomes:

- CLO#1: Describe infectious diseases and their relationship to dental patient and workplace safety.
- CLO#2: Identify regulatory agencies that oversee workplace and safety standards. (ILO: Critical Thinking).
- CLO#3: Describe waste management using green technology to include water line maintenance and hazardous waste disposal.
- CLO#4: Describe standards and guidelines of occupational safety and infection control for dental personnel.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

DH 205L - Dental Infection Control Lab**1 Credit(s)****Prerequisite(s):**

Successful admittance to a Dental program.

Corequisite(s): DH 205

Course Description: Through hands-on / scenario-based activities, students will prepare for the following sections: patient and dental healthcare worker education, standard/ universal precautions and prevention of disease transmission, prevention of cross-contamination, maintaining aseptic conditions, performing disinfection sterilization procedures, environmental asepsis, and occupational safety. Course is dual-numbered as DA 202L.

Course Learning Outcomes:

- CLO#1: Identify regulatory agencies that oversee workplace and safety standards. (ILO: Critical Thinking)
- CLO#2: Demonstrate waste management using green technology to include water line maintenance and hazardous waste disposal.
- CLO#3: Demonstrate occupational safety and infection control for dental personnel.
- CLO#4: Apply infection control techniques to ensure personal and patient safety in the dental setting.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required State minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (33) hours per term.

DH 210 - Oral Pathology

3 Credit(s)

Prerequisite(s):

Successful completion of the first two terms of the Dental Hygiene program.

Course Description: Introduces the principles of human disease including pathogenesis, clinical appearance, treatment, and microscopic features. In addition, basic principles of general pathology and the dental hygienist's role in the recognition of oral disease are included.

Course Learning Outcomes:

- CLO#1 Appraise the eight categories that contribute to a definitive or final diagnosis.
- CLO#2 Distinguish the variants of normal in the oral cavity.
- CLO#3 List and illustrate the different causes of injury to the orofacial tissue.
- CLO#4 Discuss the two different types of immunities.
- CLO#5 Categorize and discuss the various autoimmune diseases with oral manifestations.
(ILO: Communication)
- CLO#6 Differentiate between bacterial, fungal, and viral infections.
- CLO#7 Discuss and appraise gene and chromosomal abnormalities.

Typical Required and Recommended Equipment and Materials: To be determined.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (30) and a standard RCC deliver of (33) lecture hours per term, not to exceed (36) hours per term.

DH 220 - Pharmacology

3 Credit(s)

Prerequisite(s): Successful completion of the first two terms of the Dental Hygiene program.

Course Description: Introduces the mechanism of action of drugs to the human body. Includes the role of the dental hygienist in patient's adherence to medication therapy. The foundational concepts of principles of pharmacology, non-opioid analgesics, and antibiotics, as well as additional classes of drugs and emphasizes drugs commonly used in the dental profession for treatment of common systemic and oral diseases and for emergency treatment.

Course Learning Outcomes:

- CLO#1: Identify key components of prescriptions to ensure accurate medication administration and patient safety in dental practice.
- CLO#2: Describe the pharmacodynamics and pharmacokinetics of common dental medications, including local anesthetics and antibiotics.
- CLO#3: Assess drug-drug and drug-disease interactions and their implications for treatment planning and patient care.
- CLO#4: Apply legal, ethical, and safety guidelines in drug prescription and administration.
(ILO: Critical Thinking)
- CLO#5: Educate patients on proper medication use and address concerns related to overuse, misuse, and resistance.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (30) and a standard RCC deliver of (33) lecture hours per term, not to exceed (36) hours per term.

DH 230 - Community Dental Health I**3 Credit(s)****Prerequisite(s):**

Successful completion of all four previous terms of the Dental Hygiene program.

Course Description: Introduces students to the principles and practices of dental public health. The emphasis is placed on the role of the dental hygienist as an innovator of, and an educator in community health programs. During this course, the students will plan a community oral health education program that is implemented and evaluated during Community Dental Health II. Cultural differences, socioeconomic factors and barriers to health care are discussed in relation to developing preventive programs. In addition, students will have an opportunity to learn about federal and state public health programs and current public health issues. Community oral health programs for vulnerable populations such as indigent, geriatric, and special-needs patients are included.

Course Learning Outcomes:

- CLO#1 Identify and describe community dental health activities related to prevention and control of oral conditions and promote health. (ILO: Communication)
- CLO#2 Develop strategies to effect changes in need, demand, and utilization of dental services.
- CLO#3 Design and organize the planning methods and materials for the assessed dental needs of a community.
- CLO#4 Identify and construct the methods for implementing a successful plan to meet the assessed dental needs of a community.
- CLO#5 Develop a plan for a community-based project, including a complete implantation plan.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (30) and a standard RCC deliver of (33) lecture hours per term, not to exceed (36) hours per term.

DH 231 - Community Dental Health II**3 Credit(s)****Prerequisite(s):**

Successful completion of the first five terms of the Dental Hygiene program.

Course Description: Continues the Community Dental Health I course in which students apply

public health/health education principles through implementing individual community oral health education projects, and through participating in-service learning activities outside the classroom setting. Emphasis is placed on students interacting with a variety of patients, including the physically and mentally challenged, indigent populations, and geriatric groups. Students gain experience in health education, as well as additional experience in providing clinical preventive services out in the community.

Course Learning Outcomes:

- CLO#1 Recall and test the plan created in DH231, Community Dental Health class.
- CLO#2 Construct an assessment plan for patients in the community project.
- CLO#3 Identify the individual needs of the underserved patient in a specific community project. (ILO: Critical Thinking)
- CLO#4 Discuss and demonstrate dental hygiene care for a fearful patient.
- CLO#5 Demonstrate and analyze the ways to provide humane and compassionate care to all patients.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (30) and a standard RCC deliver of (33) lecture hours per term, not to exceed (36) hours per term.

DH 240 - Special Needs - Current Trends in DH

3 Credit(s)

Prerequisite(s):

Successful completion of the first term of the Dental Hygiene program.

Course Description: Introduces students to the importance of oral hygiene in people with disabilities. Further discusses specific problems areas divided into each disease or anomaly. In addition, will investigate trends influencing the practice of dental hygiene. The history and image of dental hygiene, career satisfaction, educational trends, and access to care, independent practice, and self-regulations. A closer look at the legal, political and ethical ramifications of these topic areas as they relate to the dental hygiene profession will be explored.

Course Learning Outcomes:

- CLO#1 Identify and appraise the factors to consider when planning educational interventions for a mentally impaired patient.
- CLO#2 Recognize and explain practice management tips to accommodate patients with special needs.
- CLO#3 Compose a care plan to provide home oral therapy.
- CLO#4 Construct assessment techniques used to determine the patient's range of motion, grip strength, and finger closure when designing oral hygiene assistive devices.
- CLO#5 Research and differentiate between the current trends in homecare products for patients with developmental and intellectual disorders. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (30) and a standard RCC deliver of (33) lecture hours per term, not to exceed (36) hours per term.

DH 241 - Research and Issues in Oral Health

2 Credit(s)

Prerequisite(s):

Successful completion of the first five terms of the Dental Hygiene program.

Course Description: Explores the role and scope of research in dental hygiene. Introduces basic strategies, methodologies, and the types of research and topics include barriers to effective research; identifying appropriate sources of information for a given task; evaluating information for a given purpose; recognizing misinformation. Thoughtful analysis of current health research is included.

Course Learning Outcomes:

- CLO#1 Define the academic research process and explain the concepts of information literacy.
- CLO#2 Apply the results of the appraisal or evidence in clinical health practice.
- CLO#3 Critically appraise current health research evidence for its vitality and usefulness.
(ILO: Communication)
- CLO#4 Explain and evaluate evidence-based decision making and its importance in everyday practice.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (20) and a standard RCC deliver of (22) lecture hours per term, not to exceed (24) hours per term.

DH 250 - Restorative Dentistry I

3 Credit(s)

Prerequisite(s):

Successful completion of the first three terms of the Dental Hygiene program.

Course Description: Introduces students to restorative techniques with emphasis on tooth anatomy, moisture control with rubber dam isolation, placement of amalgam restorations, and matrix and wedge placement. Includes the etiology of decay and cariology, restoration preparation and caries classification, and the properties of amalgam. The occlusal relationship will be covered, and its importance in restoration placement.

Course Learning Outcomes:

- CLO#1 Categorize properties and usage of dental materials.
- CLO#2 Recognize and evaluate requirements of a cavity liner or base.
- CLO#3 Review and evaluate the dental anatomy and morphology of the teeth.
- CLO#4 Identify and appraise procedures for the fabrication of a temporary crown. (ILO: Critical Thinking)

CLO#5 Conclude which steps are required for an extraoral photograph and its use in a treatment plan.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (30) and a standard RCC deliver of (33) lecture hours per term, not to exceed (36) hours per term.

DH 251 - Restorative Dentistry II

3 Credit(s)

Prerequisite(s):

Successful completion of the first four terms of the Dental Hygiene program.

Course Description: Continuation of Restorative Dentistry I, provides students with the opportunity to practice restorative techniques, moisture control with rubber dam isolation, placement of amalgam restorations, and matrix and wedge placement on typodonts.

Course Learning Outcomes:

CLO#1 Demonstrate placement of a cavity liner or base.

CLO#2 Recall and evaluate anatomy and morphology of a tooth when placing an amalgam restoration.

CLO#3 Distinguish and examine the challenges with Alginate impressions. (ILO: Critical Thinking)

CLO#4 Demonstrate intraoral/extraoral photography.

Typical Required and Recommended Equipment and Materials: To be determined.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (60) and a standard RCC deliver of (66) lecture/lab hours per term, not to exceed (72) hours per term.

DH 252L - Restorative Dentistry III

1 Credit(s)

Prerequisite(s):

Successful completion of the first five terms of the Dental Hygiene program.

Course Description: Continuation of Restorative Dentistry II. Includes dental hygiene diagnosis as a key component including assessment of data collected, along with the consultation with the dentist and other healthcare providers. The dental hygiene diagnosis comprehensive plan includes restorative, cosmetic, and oral health needs.

Course Learning Outcomes:

- CLO#1 Demonstrate and assess the fabrication, primary try-in, and cementation of a temporary crown.
- CLO#2 Model the placement of a cavity liner or base prior to placement of an amalgam restoration.
- CLO#3 Summarize the steps in proper placement of an amalgam restoration.
- CLO#4 Analyze and differentiate between the different treatment plan options. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: To be determined.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A state required minimum of (30) and a standard RCC deliver of (33) lab hours per term, not to exceed (36) hours per term.

DH 260 - Dental Anesthesia - Analgesia

3 Credit(s)

Prerequisite(s):

Successful completion of the first three terms of the Dental Hygiene program.

Course Description: Introduces the anatomy of the nerves involved in dental anesthesia. Reviews the pharmacology and physiology of local anesthetic agents, including effective delivery techniques in the oral cavity.

Course Learning Outcomes:

- CLO#1 Discuss and explain the evolution of anesthesia, including the historical perspective.
- CLO#2 Describe and diagram the recovery process following nitrous oxide sedation.
- CLO#3 Evaluate and discuss the analgesic property and each component in the nitrous oxide sedation delivery system.
- CLO#4 Discuss and categorize the structure and classification of neurons and differentiate between afferent and efferent nerves.
- CLO#5 Discuss the special considerations, symptoms, and reaction with topical anesthetics in dentistry. (ILO: Communication)
- CLO#6 Recognize and describe the landmarks that are relevant to the administration of local anesthesia.

Typical Required and Recommended Equipment and Materials: To be determined.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

LECTURE PORTION: A state required minimum of (10) and a standard RCC deliver of (11) lecture hours per term, not to exceed (12) hours per term.
LECTURE/LAB PORTION: A state required minimum of (40) and a standard RCC deliver of (44) lecture hours per term, not to exceed (48) hours per term.

DH 270 - Periodontology I

2 Credit(s)

Prerequisite(s):

Successful completion of the first three terms of the Dental Hygiene program.

Course Description: Introduction of the scientific study of the structures and function of the periodontium in both health and disease, the etiology and principles of periodontal diseases, examination procedures, treatment, and preventative measures.

Course Learning Outcomes:

- CLO#1 Define and inspect periodontium; identify its main components.
- CLO#2 Outline and inventory the etiology of periodontal disease.
- CLO#3 Discuss and analyze the salivary acquired pellicle and its relationship and role to periodontium and periodontal disease. (ILO: Critical Thinking)
- CLO#4 Describe and discuss dental deposits and their role in periodontal disease.
- CLO#5 Assess the functions and role of periodontal inflammation in periodontal health and disease.
- CLO#6 Classify periodontal disease and differentiate between the various classes.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (20) and a standard RCC deliver of (22) lecture hours per term, not to exceed (24) hours per term.

DH 271 - Periodontology II

2 Credit(s)

Prerequisite(s):

Successful completion of the first four terms of the Dental Hygiene program.

Course Description: Continues the assessment skills necessary in the treatment of patients with advanced periodontal disease. Provides ethical and clinical responsibility in periodontal disorders and the relationship of the specialty practice of periodontics within the broad scope of dentistry and the legal ramifications within.

Course Learning Outcomes:

- CLO#1 Demonstrate and discuss the treatment plan process for the periodontal patient.
- CLO#2 Identify and apply the proper procedures for the presentation of a periodontal case that includes dental hygiene assessment and treatment planning. (ILO: Communication)
- CLO#3 Demonstrate and evaluate nonsurgical periodontal therapy and integrate the information into the clinical practice of dental hygiene.
- CLO#4 Measure and justify the benefits of surgical treatment of periodontal diseases.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A state required minimum of (20) and a standard RCC deliver of (22) lecture hours per term, not to exceed (24) hours per term.

Design and Digital Media

DDM 120 - Digital Graphic Design I

3 Credit(s)

Course Description: Introduces students to the concepts of graphic design and production by integrating design principles with software capabilities. Exercises include an introduction to the use of Adobe® Photoshop, Illustrator and InDesign. Concepts in color, typography, logo design, page layout, package design and Web page design are covered. Additional lab hours required. The intent of this class is to provide a sound foundation and experience in the organization of design elements, individual creative processes, a heightened sense of aesthetics; a grasp of printed and Web principles, and basic typography. These experiences shall provide a working ability in graphic design for students interested in graphic design, web design or for personal enrichment.

Course Learning Outcomes:

CLO#1: Identify disciplines within the field of Graphic Design, its practices and careers.

Demonstrate the creative design process.

CLO#2: Identify anatomy, terminology of type and traditions of basic typography.

Demonstrate skill in designing with and communicating with type.

CLO#3: Demonstrate the concepts, elements and principles of graphic design, and the Gestalt principles of visual perception and organization. (ILO: Critical Thinking)

CLO#4: Demonstrate how to use the software and hardware technology necessary for graphic design.

CLO#5: Demonstrate effective and successful print and web publishing. Understand creative typography, page design, use of color, and the generation of effective images.

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe CC (or access to the college computer labs), Portable USB drives, online drop boxes for backup storage, sketchbook, pens and pencils, X-Acto knife and blades, ruler.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

DDM 125 - Digital Photography

3 Credit(s)

Recommended Prerequisite(s):

ART 115 and DDM 160

Course Description: Offers instruction in the use of a SLR digital camera and fundamentals of digital photography. Topics include image composition, digital camera techniques in various formats including raw, GIF, JPEG, and PNG, digital processing using Adobe® Photoshop and digital printing. Students will learn how to manually operate a digital camera, taking control of aperture settings, shutter speeds, and ISO controls. Students will learn how various lenses effect the depth of field and image quality of an exposure. No darkroom work is required. Students must

provide their own digital single lens reflex cameras and these cameras must be able to allow for manual adjustment of shutter speed and aperture. Does not fulfill degree or certificate requirements for computer proficiency. Additional studio hours required.

Course Learning Outcomes:

CLO#1: Demonstrate DSLR camera operation, concepts of the digital darkroom and digital photographic techniques and processes.

CLO#2: Explore principles of traditional photography and how they apply to digital photography.

CLO#3: Demonstrate various techniques to enhance and manipulate an image through the application of camera and lighting techniques, effects and filters. (ILO: Critical Thinking)

CLO#4: Demonstrate how to transport a digital photograph from camera to computer, color and file management, and the preparation of files for photographic manipulation using Camera Raw.

CLO#5: Manipulate existing digital images to create original digital images using Photoshop tools and techniques.

CLO#6: Apply technology to publish images for print and screen presentation.

Typical Required and Recommended Equipment and Materials: Access to personal computer installed with Adobe Photoshop (or access to the college computer labs) and Internet access plus external storage. This course requires some work to be printed on the printer in the computer lab

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

DDM 130 - Introduction to Adobe Web Tools

3 Credit(s)

Prerequisite(s):

CIS 120 (formerly offered as CS120) or documented proficiency in the past ten years.

Course Description: Provides an overview of various Adobe® applications including Acrobat DC, Dreamweaver, Spark, Portfolio and Behance to create web and portfolio sites, social media posts and videos. Free productivity applications for time and income tracking, creating estimates and invoices, and project management will also be explored.

Course Learning Outcomes:

CLO#1: Determine with a variety of Adobe® applications for website development and social media post design and understand their functionality and best use.

CLO#2: Demonstrate how to use advanced features of Adobe® Acrobat.

CLO#3: Utilize Adobe® Dreamweaver to create website pages and understand its usage and capabilities.

CLO#4: Use Adobe® Spark to create web pages, social media posts and videos for popular social media platforms.

CLO#5: Demonstrate a functional understanding of page layout using CSS and layers.

CLO#6: Use Adobe® Portfolio to create a professional portfolio of design work.

CLO#7: Demonstrate a general understanding of many common productivity apps, their value, benefits and usage. (ILO: Information Literacy)

CLO#8: Demonstrate basic web design principles.

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe CC (or access to the college computer labs). Portable USB drives, cloud storage.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

DDM 140 - Electronic Publishing I InDesign

3 Credit(s)

Prerequisite(s):

CIS 120 (formerly offered as CS120) or equivalent computing experience.

Course Description: Introduces the student to the computer software used in the development of page design and layout. Emphasis will be placed on the production of basic business publications including newsletters, fliers, brochures, etc. General principles of page layout design will be studied including the placement of text, images, illustrations and logotypes and the important synthesis of these elements. Additional lab hours required.

Course Learning Outcomes:

CLO#1: Identify and use basic Adobe® InDesign tools and functions to apply the concepts of desktop publishing and commercial file preparation.

CLO#2: Demonstrate effective solutions for a range of design problems involving both conceptual and technical learning. (ILO: Critical Thinking)

CLO#3: Demonstrate team building skills, interpersonal skills, and project modification to meet a client's needs.

CLO#4: Apply technology for desktop publishing to Understand the use of the different file formats and types when working with embedded and linked vector and bitmapped images.

CLO#5: Develop good design skills to create effective publications with attention to the aesthetics of the publication.

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe CC (or access to the college computer labs). Thumb drives, online drop boxes for backup storage.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

DDM 141 - Electronic Publishing II InDesign

3 Credit(s)

Prerequisite(s):

DDM 140

Course Description: Emphasizes design and proper preparation of electronic pre-press files for print and digital production. Students will execute print and interactive projects for the web using advanced design and publishing tools in Adobe® InDesign. Students will also examine many advanced layout and printing techniques, multiple page document preparation and the proper methods for sending files to printers and online publishers. Additional lab hours required.

Course Learning Outcomes:

- CLO#1: Demonstrate the technical and creative process of Electronic document assembly.
- CLO#2: Demonstrate the complexities of working with process color, spot color, CMYK, RGB, as well as additive and subtractive color in file preparation. (ILO: Critical Thinking)
- CLO#3: Demonstrate the differences and interactions between Adobe® Illustrator and Photoshop, InDesign and Acrobat.
- CLO#4: Manage time, material, and human resources to produce publications.

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe Creative Cloud (or access to the college computer labs). Thumb drives, online backup storage.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

DDM 150 - Computer Illustration - Illustrator

3 Credit(s)

Course Description: Students develop competency in the creation of computer-generated illustrations. Includes instruction in creating vector graphics and techniques for logo design, as well as brochure, book, magazine, and advertising illustration. Adobe® Illustrator is currently the application used in this course.

Course Learning Outcomes:

- CLO#1: Identify and use basic Adobe® Illustrator tools and functions to enhance and add interest to object oriented designs.
- CLO#2: Demonstrate effective solutions for a range of design problems involving both conceptual and technical learning. (ILO: Critical Thinking)
- CLO#3: Demonstrate team building skills, interpersonal skills, and project modification to meet a client's needs.
- CLO#4: Apply technology to publish digital illustrations for print and screen presentation.
- CLO#5: Use Adobe® Illustrator in concert with the other primary graphic design applications.

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe Illustrator CC (or access to the college computer labs) and Internet access plus thumb drives, online backup storage. This course requires some work to be

printed on the printer in the computer lab

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of thirty (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

DDM 160 - Digital Imaging - Photoshop

3 Credit(s)

Course Description: Explores a wide range of digital imaging techniques from photo touch-ups to realistic scenes created from scratch. Digital image creation and manipulation commands and operations will be covered. Design, publishing concepts, and terms will be discussed. Particular attention will be given to creating files for effective output whether for printed media or electronic. Adobe® Photoshop is currently the application used in this course.

Course Learning Outcomes:

CLO#1: Demonstrate the tools and techniques necessary to create and manipulate digital images using Adobe® Photoshop.

CLO#2: Demonstrate effective solutions for a range of design problems involving both conceptual and technical learning. (ILO: Critical Thinking)

CLO#3: Demonstrate team building skills, interpersonal skills, and project modification to meet a client's needs.

CLO#4: Apply technology to publish images for print and screen presentation.

CLO#5: Develop techniques for learning and using new software.

Typical Required and Recommended Equipment and Materials: •Access to personal computer installed with Adobe Photoshop (or access to the college computer labs) and Internet access plus thumb drives, online backup storage. This course requires some work to be printed on the printer in the computer lab.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

DDM 161 - Adv Digital Imaging Photoshop CC

4 Credit(s)

Prerequisite(s):

CIS 195, DDM 120, DDM 160, DDM 130

Course Description: Provides intermediate-level digital imaging training using Photoshop CC for designing websites. Students learn to create shared libraries of graphics, colors and styles assets between Adobe® programs and generate assets and extract assets for web at different device resolutions. The use of Dreamweaver CC to extract style information and assets from Photoshop comps will be explored. Emphasis is on utilization of effective design principles and exploration of

industry-appropriate production tools.

Course Learning Outcomes:

- CLO#1: Demonstrate technical aspects of formatting and preparing graphics for the Web using current Web graphics and Web authoring programs.
- CLO#2: Create original artworks, graphical and navigational elements, 2-D animations and multimedia elements to incorporate into a Web page.
- CLO#3: Develop effective visual communication strategies, recognizing and using appropriate aesthetics in selection and presentation of Web graphics.
- CLO#4: Demonstrate effective techniques for incorporating new media concepts such as user-interactivity and motion graphics into Web projects. Utilize advanced techniques in typography, photo manipulation, and page layout to produce effective, professional Websites. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe CC (or access to the college computer labs). Thumb drives and online backup storage.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

DDM 170 - Motion Graphics - After Effects

3 Credit(s)

Prerequisite(s):

DDM 160 and DDM 150

Course Description: Introduces Adobe® After Effects for 2D animation and visual effects for television. Students will learn the essentials of motion graphics including visual rhythm and kinetic typography. Through a series of lectures and assignments, students learn how to conceptualize and visualize motion graphic storyboards and develop methods of producing title sequences, television network identifications, music video effects, and Web-based graphic animations.

Course Learning Outcomes:

- CLO#1: Identify methods and processes for conceptualizing in time-based media.
- CLO#2: Demonstrate self-direction in ideation and design process.
- CLO#3: Demonstrate an understanding of motion graphic design principles in applied practice. (ILO: Communication)
- CLO#4: Exhibit applied knowledge of synthesis of form and content.
- CLO#5: Demonstrate one's work in a clear and professional manner.

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe CC (or access to the college computer labs). Thumb drives for backup storage.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

DDM 185 - Intro to Digital Video - Premiere**3 Credit(s)**

Course Description: Introduces digital video production planning, acquisition, comprehension, editing and distribution. Also covers potential uses of digital video in related computer applications. Includes a hands-on component using industry-standard software to edit a variety of digital video projects.

Course Learning Outcomes:

- CLO#1: Determine project objectives. Effectively plan a video project to include vision, audience, and the resources needed.
- CLO#2: Demonstrate a functional understanding of digital video terminology.
- CLO#3: Demonstrate ability to capture and edit video, organize clips and apply sound tracks using industry-standard software. (ILO: Critical Thinking)
- CLO#4: Demonstrate ability to select appropriate audio and video file types and differentiate their use depending upon type of digital content used.
- CLO#5: Demonstrate ability to manipulate color adjustment, use video effects and maintain aspect ratios.
- CLO#6: Demonstrate ability to apply text media effects, credit rolls, noise textures and graphics.
- CLO#7: Demonstrate ability to apply effective transitions and adjust transition parameters.
- CLO#8: Troubleshoot effective solutions for a range of digital video problems involving both conceptual and technical learning.
- CLO#9: Troubleshoot software problems.

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe® CC (or access to the college computer labs). Portable USB drives, online drop-boxes for backup storage.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

DDM 186 - Advanced Digital Video**3 Credit(s)****Prerequisite(s):**

DDM 185

Course Description: Introduces digital video production planning, project management, collaboration, acquisition, comprehension, creative problem-solving, leadership, editing and distribution, and covers special effects and compositing techniques. Also includes potential uses

of digital video in related computer applications, and a hands-on component using Adobe® software to edit and composite a variety of digital video projects. Class would culminate with small groups preparing and producing short films. Additional lab hours required.

Course Learning Outcomes:

- CLO#1: Determine project objectives. Effectively plan a video project to include vision, audience, and the resources needed.
- CLO#2: Demonstrate a functional understanding of video production terminology. (ILO: Critical Thinking)
- CLO#3: Demonstrate ability to capture and edit video, create compositions, organize clips and media bins and apply sound tracks using industry-standard software.
- CLO#4: Demonstrate ability to select appropriate audio and video file types and differentiate their use depending upon type of digital content used.
- CLO#5: Demonstrate ability to manipulate color correction, use curves, contrast and other media manipulation tools and maintain aspect ratios.
- CLO#6: Demonstrate ability to plan, write, and produce group-based short films.
- CLO#7: Demonstrate ability to distribute short films.
- CLO#8: Troubleshoot effective solutions for a range of digital video, animation and compositing problems involving both conceptual and technical learning.
- CLO#9: Troubleshoot software problems.

Typical Required and Recommended Equipment and Materials: Access to personal computer installed with Adobe® CC and Internet access.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

DDM 190 - Intro to Animation Adobe® Animate

3 Credit(s)

Course Description: Using the Adobe® Animate application, students design rich media Web content containing interactivity, animation and sound. Students gain an understanding of Animate's logic, concepts, and language. In addition, students will learn of designer/developer resources for continued self-paced learning. Topics include introduction to rich media; the Animate drawing tools; creating Animate movies; adding graphic elements; designing with text; symbols, instances, and libraries; working with sound and motion; using ActionScript to create interactivity; combining Animate with HTML; integrating Illustrator and Photoshop with Animate using Animate Catalyst; publishing an Animate website.

Course Learning Outcomes:

- CLO#1: Demonstrate Animate's logic, concepts, and language in order to create components necessary for 2D animation.
- CLO#2: Demonstrate an understanding of the processes for designing and executing vector objects and graphics for animation.
- CLO#3: Utilize effective solutions for a range of design problems involving both conceptual and technical learning.

CLO#4: Demonstrate the concept of communication ideas through using type and text with animation.

CLO#5: Demonstrate the concept of a time and motion and how to create a motion sequence.

CLO#6: Demonstrate an understanding the interaction of sound and image in animation.

CLO#7: Demonstrate the ability to plan and execute an interactive animation using the Animate timeline and ActionScript buttons. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe® Animate CC (or access to the college computer labs) and Internet access plus thumb drives, and online drop boxes for backup storage.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

DDM 191 - Advanced Animation II

3 Credit(s)

Prerequisite(s):

CIS 195, DDM 190, and MTH 95

Course Description: Introduces animation and object-oriented programming concepts and techniques. Includes tools used by the creative industry for animation productions and interactive media. Topics covered include representing form and transforms in two dimensions, capturing user actions and driving application behavior interactively.

Course Learning Outcomes:

CLO#1: Demonstrate the foundations of computing. Utilize logic, concepts, and language in order to create a 2D animation.

CLO#2: Plan, write and execute an interactive animation using Processing.

CLO#3: Create original 2D animation concepts for production. (ILO: Communication)

CLO#4: Manage objects interaction. Implement input and event listeners.

CLO#5: Develop storyboards for planning an original animation concept. Use digital animation software to produce finished animations.

Typical Required and Recommended Equipment and Materials: Access to personal computer. The use of Processing, which is an open-source programming language and environment for people who want to program images, animation, and interactions. It is an open project initiated by Ben Fry and Casey Reas.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

DDM 200 - Survey of Design and Film History

3 Credit(s)

Prerequisite(s):

DDM 120 and WR 121Z or designated placement.

Course Description: This is a survey course on the major developments, movements and critical approaches of design and film from the Industrial Revolution to the present. This course emphasizes an understanding of the historical, cultural, commercial and aesthetic contexts that influence graphic and cinematic styles of the twentieth century, using the works of designers, artists film-makers. Students will conduct research, prepare a research paper, a presentation and create a poster on a chosen subject of the 20th Century. Additional lab hours required.

Course Learning Outcomes:

CLO#1: Identify in a comprehensive way the general development of design and film within a historical context.

CLO#2: Recognize and describe a particular historical style and the designers, artists, and film-makers throughout contemporary history that have made significant contributions to their craft. (ILO: Communication)

CLO#3: Identify and apply artistic characteristics of a style to a design project.

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe® CC (or access to the college computer labs). Thumb drives, online backup storage. This course requires some work to be printed on the printer in the computer lab.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

DDM 220 - Digital Graphic Design II

3 Credit(s)

Prerequisite(s):

DDM 120

Course Description: Explores the communication of ideas and information through visual means. Students apply design process and principles, visual language, and the art of problem solving to finding creative solutions to complex visual communications problems. Various layout formats, the creative use of typography, concept origination and development are also addressed. A professional approach to the discipline will be stressed. Additional lab hours required.

Course Learning Outcomes:

CLO#1: Demonstrate Visual Literacy - The ability to produce visual messages using graphic design principles.

CLO#2: Demonstrate the ability to use creative thinking and problem-solving techniques to work through a design problem and create an appropriate solution. (ILO: Critical Thinking)

CLO#3: Utilize anatomy, terminology of type and traditions of basic typography. Develop skill in designing with type.

CLO#4: Demonstrate the concepts, elements and principles of graphic design, and the Gestalt principles of visual perception and organization.

CLO#5: Demonstrate how to use the software and hardware technology necessary for graphic design.

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe® CC (or access to the college computer labs). Thumb drives, online drop boxes for backup storage. This course requires some work to be printed on the printer in the computer lab.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

DDM 221 - Production Graphics

3 Credit(s)

Prerequisite(s):

DDM 140, DDM 150, DDM 160

Course Description: Introduces students to the print production process with an emphasis on document preparation and production planning and management. Students will learn about the history of printing and the commercial printing process. The full range of the design-to-print process will be covered. Topics include paper selection, soliciting bids and preparing quotes, selecting printers, photographers and other suppliers, design editing, typography selection and copy-fitting, proper image preparation, understanding color models for print, proofing and editing, and binding and finishing techniques. Additional lab hours required.

Course Learning Outcomes:

CLO#1: Identify the history of printing and the concepts of offset printing technology.

CLO#2: Demonstrate layout and design as it pertains to print production and creative execution of electronic prepress documents.

CLO#3: Identify the role of suppliers and vendors in the production process. Learn to collaborate with printers, photographers and paper suppliers to get bids.

CLO#4: Demonstrate industry standards for all aspects of print production including: paper manufacturing, paper types and paper selection; typography, type selection and copyfitting; color models and color management for print; color separations, screen tints, halftones, film and printing. (ILO: Critical Thinking)

CLO#5: Demonstrate the importance of the role the production artist plays in project management.

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe® CC (or access to the college computer labs). Thumb drives, online backup storage. This course requires some work to be printed on the printer in the computer lab.

ACTI Code and Course Type

Length of Course:

A required minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

DDM 223 - Digital Graphic Design III

3 Credit(s)

Prerequisite(s):

DDM 220

Course Description: Focuses on creative typography for visual communication and stresses the use of typography as a design and communication tool. Emphasis will be on formal design issues related to typography, composition, scale and proportion and the relationships of type, layout and color in two- and three-dimensional graphic design projects. Students will study the history and classifications of letterforms and employ this knowledge base in the creation of various typographical designs and presentations. Typical projects may range from letter and alphabet design to the use of typographical forms as the feature design elements in graphic designs or page layouts. Additional lab hours required.

Course Learning Outcomes:

- CLO#1: Demonstrate Typographic Literacy - The ability to produce visual messages using typographic principles.
- CLO#2: Demonstrate the ability to use creative thinking and problem-solving techniques to work through a design problem and create an appropriate solution. (ILO: Critical Thinking)
- CLO#3: Utilize the anatomy, terminology of type and traditions of basic typography. Develop skill in designing with type.
- CLO#4: Utilize the concepts, elements and principles of graphic design, and the Gestalt principles of visual perception and organization.
- CLO#5: Demonstrate to use the software and hardware technology necessary for graphic design.

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe® CC, current version (or access to the college computer labs). Thumb drives, and online drop box for backup storage. This course requires some work to be printed on the printer in the computer

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

DDM 224 - Digital Graphic Design IV

3 Credit(s)

Prerequisite(s):

DDM 220 and DDM 221

Course Description: Builds on basic concepts of graphic design and introduces systems of visual organization and composition for two- and three-dimensional design. Emphasis is on problem solving and idea generation skills to develop strong conceptual solutions. Students will gain experience solving complex visual communication problems through advanced design projects in logo design, package design, point-of-purchase and publication design. Additional lab hours required.

Course Learning Outcomes:

CLO#1: Demonstrate Visual Literacy - The ability to produce visual messages using graphic design principles.

CLO#2: Demonstrate creative thinking and problem-solving techniques to intelligently research a design problem and create an appropriate solution. (ILO: Critical Thinking)

CLO#3: Demonstrate the ability to use creative thinking and problem solving techniques to work through a design problem and create an appropriate solution.

CLO#4: Utilize concepts, elements and principles of graphic design, and the Gestalt principles of visual perception and organization.

CLO#5: Utilize the software and hardware technology necessary for graphic design.

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe® CC, current version (or access to the college computer labs). Thumb drives, online backup storage. This course requires some work to be printed on the printer in the computer lab

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

DDM 225 - 3D Graphics Design

3 Credit(s)

Recommended Prerequisite(s):

DDM 150 and DDM 160

Course Description: Provides an introduction to the principles of developing basic 3D graphic imagery and animations. Using a hands-on approach, students develop competence in using Blender to create 3D graphics. Topics include: modeling objects, generating surfaces, and working with textures, cameras, and lighting.

Course Learning Outcomes:

CLO#1: Create a series of 3D objects and original short animations. (ILO: Communication)

CLO#2: Utilize the Blender user-interface and the tools for modeling, texturing, animation, and special effects.

CLO#3: Demonstrate layout and organize a typical Blender workflow.

Typical Required and Recommended Equipment and Materials: Portable storage media may be required for backup and transport of files from the college computer labs. Students may wish to print files at professional shops for use in professional portfolio.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

DDM 226 - Advanced 3D Graphics Design II

3 Credit(s)

Prerequisite(s):

DDM 225

Course Description: Provides competency in advanced concepts of design and development of complex 3D graphic images, animations, and special effects. Using a hands-on approach, students develop competence in using industry-standard 3D creation programs to create 3D graphics. Topics include: modeling objects, generating surfaces, and working with textures, cameras, and lighting.

Course Learning Outcomes:

- CLO#1: Create a series of 3D objects and original short animations. Demonstrate how to plan, create, design, implement, and evaluate projects. Apply technology to task.
- CLO#2: Utilize the Maya user-interface and the advanced tools for modeling, texturing, animation, and special effects including creation of fluid effects, hair, fur, and cloth. Demonstrate proficiency in software applications, apply technology to task.
- CLO#3: Demonstrate layout and organize a typical Maya workflow. Utilize systems, improve and develop procedures. Prepare and follow schedule. (ILO: Communication)
- CLO#4: Work constructively to produce a finished group project, animation, or game. (Participates as a member of a team, works cooperatively with others, contributes effort, suggestions and ideas.)
- CLO#5: Design unique, high-quality final project for commercial or educational distribution. (Uses imagination freely, specifies goals and constraints, evaluates and chooses best alternatives.)

Typical Required and Recommended Equipment and Materials: Portable storage media may be required for backup and transport of files from the college computer labs. Students may wish to print files at professional shops for use in professional portfolio.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

DDM 229 - Portfolio - Professional Practices

3 Credit(s)

Prerequisite(s):

DDM 220

Course Description: Discusses the opportunities in the various fields of Web design, and graphic design. Students will be guided in the preparation of digital portfolios of their work, in the development of resumes, a personal identity system for a business cards, letterheads and envelopes, and cover letters to prospective employers. Students will learn practical interviewing techniques, job search "netiquette," and how to position themselves using online professional networking sites. The intent will be to prepare students to enter the design field with a confident and professional attitude. Additional lab hours required.

Course Learning Outcomes:

- CLO#1: Identify the fields of disciplines in graphic design, its practices and careers.
Demonstrate the creative design process.
- CLO#2: Learn to apply self-motivation along with time management skills to accomplish a calendar of completion dates for projects. (ILO: Critical Thinking)
- CLO#3: Identify career opportunities and demonstrate how to self-promote.
- CLO#4: Develop professional communications skills through speaking and writing.

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe® CC (or access to the college computer labs). Thumb drives, online backup storage. This course requires some work to be printed on the printer in the computer lab

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

DDM 230 - Studio Capstone

3 Credit(s)

Prerequisite(s):

DDM 220

Corequisite(s):

DDM 229

Course Description: Advanced exploration of completing a community project, with the emphasis upon creative problem solving, project management and professional practices. Students will learn to solve complex visual communication problems through projects in design, advertising, social media and video production. Provides the opportunity to work collaboratively on special projects and includes in-depth study of processes and procedures. Additional lab hours required.

Course Learning Outcomes:

- CLO#1: Employ creative thinking and problem- solving techniques to intelligently research a design problem and create an appropriate solution. (ILO: Critical Thinking)
- CLO#2: Plan time, material, and human resources.

CLO#3: Collaborate skills when designing, developing and modifying projects to complete contracts and meet the customer's needs.

CLO#4: Employ effectively and successfully concepts for print, digital video. Understand the creative skills needed for the generation of effective solutions.

CLO#5: Identify the target audience and the customer's needs and purpose.

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe® CC (or access to the college computer labs). Thumb drives, online backup storage. This course requires some work to be printed on the printer in the computer lab

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

DDM 231 - Content Management Systems

3 Credit(s)

Course Description: Introduces a broad range of topics related to various Content Management Systems, social media marketing, email marketing and SEO practices that will allow students to explore and understand the fundamentals of building CMS database-driven sites through the creation of their own responsive, user-friendly website. Additional topics will include purchasing and configuring a domain name and web hosting, installing WordPress, content creation and customization, modifying themes using CSS and HTML, choosing and installing plugins and payment platforms, website design trends and UX/UI functionality. Course formerly offered as DDM131.

Course Learning Outcomes:

CLO#1: Review a variety of popularly used CMS applications and understand their functionality and best use.

CLO#2: Demonstrate how to purchase and set up a domain name and hosting service.

CLO#3: Demonstrate the ability to design, customize and edit widgets, menus and web pages in a CMS dashboard environment to create modern, responsive websites.

CLO#4: Demonstrate the ability to customize web pages using HTML and CSS. (ILO: Critical Thinking)

CLO#5: Discuss the use of social media marketing, targeting your audience, and best practices across channels.

CLO#6: Demonstrate a functional understanding of common e-commerce tools, payment platforms and plugins.

CLO#7: Find, identify and install developer supported plugins.

CLO#8: Identify current web design trends.

CLO#9: Demonstrate a functional understanding of internet privacy, know why it's important, and apply standard security practices.

CLO#10: Discuss UI/UX design and why it's important in Web 3.0.

Typical Required and Recommended Equipment and Materials: Access to personal computer with high-speed internet, a domain name and web hosting subscription required

ACTI Code and Course Type

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed 36 hours per term.

DDM 235 - Website Design

4 Credit(s)

Prerequisite(s):

CIS 195

Course Description: Provides students with a foundation in web user interface design, including usability, navigation, visualization, functionality (site maps, FAQ's) and site accessibility. Students will use X/HTML and CSS to create websites that incorporate these concepts while maintaining visual appeal. The course will also introduce students to the core principles and methodologies of information architecture including content assessment and organization, defining organizational structures, and developing interactive web site prototypes.

Course Learning Outcomes:

- CLO#1: Assess needs and goals of a Web project and effectively plan website to include vision, audience, and the resources required. (ILO: Critical Thinking)
- CLO#2: Be able to apply industry-standard Web usability and page design guidelines to a web project.
- CLO#3: Demonstrate a functional understanding of page structure design standards and be able to apply these elements to a visually appealing Website.
- CLO#4: Demonstrate ability to organize web content into logical units, develop hierarchies of content and create a visual diagram of the site structure.
- CLO#5: Utilize advanced techniques in typography and page layout to produce effective, professional Websites.
- CLO#6: Demonstrate the ability to use text, manuals, help, and tutorials for continued learning after formal instruction.

Typical Required and Recommended Equipment and Materials: Access to personal computer installed with Adobe® CC and Internet access. An online Webhosting and domain subscription is required.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

DDM 280 - CWE - Design and Digital Media

Var. (1-12) Credit(s)

Prerequisite(s):

Permission of CWE Instructor or Department Chair.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their program. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, students should complete this course within the last two terms of their certificate or degree. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate the ability to successfully complete the interview process.
- CLO#2: Demonstrate the importance of an acceptable work ethic as described in the CWE Work Ethic and Professional Presence Guidelines and student's learning objectives.
- CLO#3: Demonstrate good work performance (student's learning objectives).
- CLO#4: Understand the importance of following instructions and meeting deadlines.
- CLO#5: Apply program knowledge, theories, principles, methods and technology. Gain new knowledge, skills, and experience while on the job. (ILO: Critical Thinking)
- CLO#6: Make contacts which will help in obtaining employment.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) lab hours per term, not to exceed (36) hours per term.

Diesel Technology

DS 111 - Basic Electricity Diesel I

3 Credit(s)

Course Description: Introduces the fundamentals of basic electricity, starters and charging systems, the use of test equipment, and troubleshooting techniques. Course required for all entering Diesel Technology students.

Course Learning Outcomes:

- CLO#1: Demonstrates industry standard safety policies.
- CLO#2: Identify and analyze general electrical circuit systems.
- CLO#3: Identify the relationship between voltage, resistance and current.
- CLO#4: Identify simple DC circuits.
- CLO#5: Diagnose, troubleshoot and repair electrical components. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

DS 113 - Diesel Engine Overhaul

6 Credit(s)

Prerequisite(s):

DS 131

Course Description: Provides diesel engine theory and hands-on experience in rebuilding and servicing diesel engines including testing, diagnosis, measurements, and repair.

Course Learning Outcomes:

- CLO#1: Describe the theory of operation for components in diesel engines. (ILO: Critical Thinking)
- CLO#2: Demonstrate industrial procedures used in rebuilding, diagnosing, testing, repairing, and adjusting diesel engines.
- CLO#3: Demonstrate correct use of the tools and equipment used by the industry.
- CLO#4: Recognize systematic approach to engine issues, troubleshooting, and diagnostic problems.

Typical Required and Recommended Equipment and Materials: Each student is required to keep a notebook for handouts and notes. Students are also required to have their own hand tools for the lab projects (see diesel tool list).

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120) and a standard RCC delivery of (132) lecture/lab hours per term, not to exceed (144) hours per term.

DS 120 - Diesel Practices

3 Credit(s)

Course Description: Introduces basic mechanical shop safety and industrial practices, professionalism and ethics, shop tools, and equipment use. Vehicle maintenance and service procedures included. Course required for all entering Diesel Technology students.

Course Learning Outcomes:

- CLO#1: Demonstrate safe use of tools and chemicals, identify proper storage of parts and components, and select correct protective clothing and safety gear for various situations.
- CLO#2: Explain diesel engine operating theories.
- CLO#3: Compare and explain design, operating principles, and the component parts of the two stroke and four stroke diesel engines.
- CLO#4: Demonstrate proper disassemble and reassemble techniques on various vehicle components. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

DS 131 - Diesel Engine Dynamics - Diagnosis

4 Credit(s)

Corequisite(s):

DS 120

Course Description: Provides the theory of diesel engine operation. Responsibility of engine sub-systems. Demonstrations of valve lash and geartrain adjustments and symptom-based troubleshooting.

Course Learning Outcomes:

CLO#1: Evaluate characteristics and thermodynamic analysis of common internal combustion engine cycles.

CLO#2: Describe each of the sub-systems of a diesel engine and their responsibilities. (ILO: Critical Thinking)

CLO#3: Perform valve adjustments using the proper service literature.

CLO#4: Demonstrate Service Literature and Service Bulletin usage for symptom-based troubleshooting.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of 80 and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

DS 132 - HD Aftertreatment Systems

4 Credit(s)

Prerequisite(s):

DS 131

Course Description: Students will understand the aftertreatment systems implemented on modern diesel engines and why they became a requirement. This will include an understanding of each sub-system and their responsibility for emission reduction. Students will gain hands-on experience in the maintenance of the aftertreatment systems and various troubleshooting performed.

Course Learning Outcomes:

CLO#1: Explain the implementation of the aftertreatment systems and why it became a requirement.

CLO#2: Describe each of the aftertreatment sub-systems and their function. (ILO: Critical Thinking)

CLO#3: Perform troubleshooting of aftertreatment sub-systems using the appropriate resources.

CLO#4: Perform maintenance of the aftertreatment sub-systems.

Typical Required and Recommended Equipment and Materials: Individual Personal Protection Equipment

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

DS 134 - Basic Electricity Diesel II**3 Credit(s)****Prerequisite(s):**

DS 111 and DS 120

Course Description: Introduces first-year students to electrical and electronic theory and more advanced topics that relate to heavy, mid-range, light, stationary, marine diesel, propane, and natural gas applications. Students will have the opportunity to achieve task mastery by successful completion of each ASE/NATEF task.

Course Learning Outcomes:

CLO#1: Identify the most common electrical terminology.

CLO#2: Evaluate and perform repairs to stop lamps, turn signals, flasher units, backup lamps and warning devices. (ILO: Critical Thinking)

CLO#3: Evaluate and perform needed repairs to electrical chassis circuits.

CLO#4: Evaluate and performs repairs to the engine electrical system.

CLO#5: Evaluate and perform repairs to the ABS electrical system.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of 60 and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

DS 141 - Heavy Equipment Power Trains**4 Credit(s)****Prerequisite(s):**

AM 120 or DS 120

Course Description: Studies the principles of operation of heavy transmissions, differentials, and clutches, and provides for hands-on experience in the servicing, inspecting, and replacement.

Course Learning Outcomes:

CLO#1: Identify components and theory of operation of power train.

CLO#2: Remove, disassemble, inspect, and install automatic and manual transmissions. (ILO: Critical Thinking)

CLO#3: Remove, disassemble, inspect and install differential, driveline and wheel bearing assemblies.

CLO#4: Remove, diagnose, reinstall and configure differentials/rear ends.

CLO#5: Perform preventative maintenance on power train components.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

DS 151 - Heavy Equipment Brakes

5 Credit(s)

Course Description: Studies the theories of braking system operation and provides hands-on experience in the rebuilding, repairing, and adjusting of the various braking systems including hydraulic, air, as well as ABS brake hydraulics and operation.

Course Learning Outcomes:

- CLO#1: Perform inspections, safety checks, and maintenance on air and hydraulic brake systems and components. (ILO: Critical Thinking)
- CLO#2: Identify the components and the path of flow for a hydraulic brake system.
- CLO#3: Identify the components and the path of flow for an air brake system.
- CLO#4: Identify the components and the path of flow for air and hydraulic anti-lock brakes system.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (100) and a standard RCC delivery of (110) lecture/lab hours per term, not to exceed (120) hours per term.

DS 160 - Heavy Equip Suspension - Steering

5 Credit(s)

Prerequisite(s):

AM 120 or DS 120

Course Description: Provides students with the theory and hands-on training needed to properly test, repair, troubleshoot, and align suspension and steering systems used on trucks and heavy equipment.

Course Learning Outcomes:

- CLO#1: Identify components and explain the theory of operation of the steering system. (ILO: Critical Thinking)
- CLO#2: Identify components and explain the theory of operation of the heavy-duty suspensions.
- CLO#3: Inspect and adjust the 5th wheel system.
- CLO#4: Inspect, troubleshoot, and repair the steering system and various components.
- CLO#5: Inspect troubleshoot and repair the common suspension systems and its components.
- CLO#6: Operate the hunter alignment machine to correctly align a truck.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (100) and a standard RCC delivery of (110) lecture/lab per term, not to exceed (120) hours per term.

DS 199 - Special Studies - Diesel**Var. (1-6) Credit(s)**

Course Description: Presents workshops dealing with the diesel and heavy equipment industry and related issues; scheduled as needed. Course is repeatable.

Course Learning Outcomes:

CLO#1: Demonstrate knowledge of safe working practices in the workplace.

CLO#2: Demonstrate proficiency of written and oral communications skills. (ILO: Communication)

CLO#3: Demonstrate workplace skills associated with customer relations and employee employer relations.

CLO#4: Perform assigned lab projects and tasks as established by the supervising Instructor.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

DS 232 - Heavy Equipment Fuel Systems**4 Credit(s)****Prerequisite(s):**

DS 131

Course Description: Develops skills and knowledge for working with diesel fuel injection, turbo chargers, super chargers, gasoline, and alternative fuel systems. Includes hands-on experience in the servicing and replacement of components in each system.

Course Learning Outcomes:

CLO#1: Describe diesel fuel injection operation and explain how they relate to engine performance.

CLO#2: Diagnose and repair of diesel fuel injection systems. (ILO: Critical Thinking)

CLO#3: Perform fuel system adjustments and routine checks and services.

CLO#4: Research and locate repair literature. (ILO: Information Literacy)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

DS 233 - Computerized Vehicle Mgmt Systems

4 Credit(s)

Prerequisite(s):

DS 131 and DS 134

Course Description: Introduces the fundamentals of computerized engine management along with sensors found on modern diesel engines and aftertreatment devices. Students will also gain knowledge in the operations of additional truck systems and troubleshooting best practices found within the industry.

Course Learning Outcomes:

- CLO#1: Recall and apply basic theory of heavy-duty electricity, components, and reading schematics.
- CLO#2: Conduct repairs in an ethical and professional manner, respecting industry safety and environmental guidelines.
- CLO#3: Recognize steps in multiplexing process. (ILO: Critical Thinking)
- CLO#4: Identify and analyze sensor signal, computer processing, and computer outputs in the vehicle computer systems.
- CLO#5: Diagnose, troubleshoot and repair vehicle electronic circuits.
- CLO#6: Practice with and compare the different OEM and universal diagnostic software and electronic service tools.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

DS 260 - Hydraulic Systems Heavy Equipment

3 Credit(s)

Prerequisite(s):

AM 120 or DS 120, and AM 111 or DS 111

Course Description: Studies theory and operation of hydraulic systems used in the heavy equipment industry; includes hands-on experience in building, troubleshooting, and repairing these systems.

Course Learning Outcomes:

- CLO#1: Recognize critical safety rules for hydraulic systems and general shop policies. (ILO: Critical Thinking)
- CLO#2: Identify the principles of the hydraulic system.
- CLO#3: Apply hydraulic systems knowledge to equipment applications for maintenance and troubleshooting.

CLO#4: Diagnose, test, repair and maintain mobile hydraulic and hydrostatic equipment.

CLO#5: Reference repair literature to interpret and apply correct hydraulic schematics.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab per term, not to exceed (72) hours per term.

DS 270 - AC for Diesel Technicians

5 Credit(s)

Prerequisite(s):

DS 120 and DS 131

Course Description: Covers vehicle air conditioning systems theory and operation. Uses industry identified skills for diagnosis, repair, and servicing of 1234yf and R134A systems. Also covers government regulations in the safe handling of refrigerants.

Course Learning Outcomes:

CLO#1: Identify the correct use of protective gear and safety equipment while working on air conditioning systems. (ILO: Critical Thinking)

CLO#2: Identify the refrigeration cycle including safety procedures and testing requirements for temperature/pressure relationships.

CLO#3: Apply proper refrigeration recovery procedures according to EPA standards.

CLO#4: Inspect, trouble shoot, diagnose and repair the air condition system.

CLO#5: Troubleshoot and test air conditioning components, systems, and accessories, including the sequence of operation.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (100) and a standard RCC delivery of (110) lecture/lab per term, not to exceed (120) hours per term.

DS 275 - Preventative Maintenance Inspection

4 Credit(s)

Prerequisite(s):

DS 111, DS 120, and DS 131

Corequisite(s):

DS 232

Course Description: Provides culmination of all ASE/NATEF and academic courses required for completion and/or graduation from the Diesel Technology program. It requires knowledge and demonstration of basic engine maintenance and repair, heavy duty brakes, drivetrain, air

conditioning, fuel and emission systems, electronics, safety inspection, servicing, maintenance records, and repairs of all onboard systems.

Course Learning Outcomes:

CLO#1: Demonstrate safety protocols and proper heavy-duty truck maintenance. (ILO: Critical Thinking)

CLO#2: Inspection and service of various heavy-duty truck subsystems.

CLO#3: Utilize failure analysis practices and procedures.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab per term, not to exceed (96) hours per term.

DS 280 - CWE - Diesel

Var. (1-12) Credit(s)

Prerequisite(s):

AM 111 or DS 111 and AM 120 or DS 120

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their programs. Together, the Instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Course is repeatable.

Course Learning Outcomes:

CLO#1: Demonstrate an acceptable work ethic as described in the CWE Work Ethic and Professional Presence Guidelines and student's learning objectives.

CLO#2: Demonstrate knowledge of safe working practices in the workplace.

CLO#3: Demonstrate proficiency of written and oral communications skills.

CLO#4: Communicate with co-workers, customers, and management in a professional and knowledgeable manner. (ILO: Communication)

CLO#5: Demonstrate workplace skills associated with customer relations and employee/employer relations.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

DS 290 - Diesel Repair Lab

3 Credit(s)

Course Description: Provides live work experience in all aspects of repair expected of an entry-level line technician. Includes engine performance, diagnosis and repair of engine components, chassis, power trains, brakes, suspension systems, hydraulic, and electrical systems. Course is for second-year students or can be taken in place of Cooperative Work Experience. Course is repeatable up to six credits.

Course Learning Outcomes:

- CLO#1: Demonstrate an acceptable work ethic and safe practices in the work place, as described in the CWE Work Ethic and Professional Presence Guidelines and student's learning objectives.
- CLO#2: Demonstrate knowledge of safe working practices in the workplace. (ILO: Critical Thinking)
- CLO#3: Demonstrate proficiency of written and oral communications skills.
- CLO#4: Perform assigned lab projects and tasks as established by the supervising Instructor.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

Early Childhood and Elementary Education

ECE 100 - Intro - Early Childhood Education

3 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces students to the field of early education for children. Covers the history and roots, current issues and challenges in the field, and explores professional education and career directions working with young children birth to eight years. Examines special considerations for diverse learners (e.g. special education, English language learners, etc.).

Course Learning Outcomes:

- CLO#1: Analyze the scope and breadth of the early childhood field and its historical foundations.
- CLO#2: Explain concepts of child development, including differing abilities of individual children.
- CLO#3: Articulate one's own personal attributes in work with children and families. (ILO: Communication)
- CLO#4: Describe the important role of family in early childhood education.
- CLO#5: Explain the importance of working ethically and respectfully with others as a responsible member of the early childhood community.
- CLO#6: Give examples of developmentally appropriate practices and the integration of content knowledge.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 125 - Early Childhood Development

3 Credit(s)

Course Description: Provides an overview of child development from conception through eight years of age. The focus is on studying and observing the physical, cognitive, communication, emotional, and social aspects of the individual during this period. This course includes the Child Development Associate (CDA) subject areas of child growth and development and observation, as well as the functional areas of physical, cognitive, communication, and creative. Child observations are required. Equivalent to ECE 125A, ECE 125B, and ECE 125C.

Course Learning Outcomes:

- CLO#1: Recognize the developmental stages of young children 0-8 years: prenatal, infant, toddler, preschool, and primary.
- CLO#2: Describe the various domains of development: physical, cognitive, and communication.
- CLO#3: Recognize major child development theorists and their ideas.
- CLO#4: Identify multiple influences on development and learning, including influences on one's own development. (ILO:Critical Thinking)
- CLO#5: Demonstrate elements of objective versus subjective observation.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes, access to Blackboard via computer.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 125A - Early Childhood Development - A

1 Credit(s)

Course Description: An overview of child development from conception through one year of age. The focus is on studying and observing the physical, cognitive, and communication domains of the individual during this period. This course includes the Child Development Associate (CDA) subject areas of child growth and development and observation.

Course Learning Outcomes:

- CLO#1: Recognize the developmental stages for the prenatal and infancy periods.
- CLO#2: Describe the various domains of development: physical, social, emotional, cognitive, and communication.
- CLO#3: Recognize major child development theorists and their ideas.

CLO#4: Identify multiple influences on development and learning, including influences on one's own development. (ILO: Critical Thinking)

CLO#5: Demonstrate elements of objective versus subjective observation.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes, access to Blackboard via computer.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (11) hours per term.

ECE 125B - Early Childhood Development - B

1 Credit(s)

Course Description: An overview of child development, focusing on studying and observing the physical and cognitive, aspects of the individual during this period. This course includes the Child Development Associate (CDA) subject areas of child growth and development and observation.

Course Learning Outcomes:

CLO#1: Describe the physical and cognitive domains of development.

CLO#2: Recognize major child development theorists and their ideas.

CLO#3: Identify multiple influences on development and learning, including influences on one's own development. (ILO: Critical Thinking)

CLO#4: Demonstrate elements of objective versus subjective observation.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes, access to Blackboard via computer.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (11) hours per term.

ECE 125C - Early Childhood Development - C

1 Credit(s)

Course Description: An overview of child development from one through eight years of age. The focus is on studying and observing the communication and creative aspects of the individual during this period. This course includes the Child Development Associate (CDA) subject areas of child growth and development and observation.

Course Learning Outcomes:

CLO#1: Describe the communication and creative domains of development.

CLO#2: Recognize major child development theorists and their ideas.

CLO#3: Identify multiple influences on development and learning, including influences on one's own development. (ILO: Critical Thinking)

CLO#4: Demonstrate elements of objective versus subjective observation.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes, access to Blackboard via computer.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (11) hours per term.

ECE 126 - ECE Best Practices

3 Credit(s)

Course Description: Examines the basics of establishing a safe, healthy and developmentally appropriate learning environment for young children. This course includes the CDA subject areas of safe, healthy, and learning environment. Community observations in early childhood settings are required. Equivalent to ECE 126A, ECE 126B, ECE 126C.

Course Learning Outcomes:

CLO#1: Explain classroom practices and environments that prevent or reduce injuries. (ILO: Critical Thinking)

CLO#2: Summarize how to respond to injuries and emergencies that potentially could occur in an early childhood program.

CLO#3: Describe experiences for children to learn habits that ensure their safety, hygiene, and nutrition.

CLO#4: Identify strategies to maintain indoor and outdoor early childhood environments that promote wellness.

CLO#5: Explain how to recognize and report child abuse and neglect.

CLO#6: Describe how to organize indoor and outdoor areas that encourage growth and learning in all developmental domains through play and exploration.

CLO#7: Plan a daily schedule and routines that support children's development and learning.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes; access to the internet and Blackboard.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 126A - ECE Best Practices - A

1 Credit(s)

Course Description: Examines the basics of establishing a safe classroom environment. This course includes the CDA subject area of Safe.

Course Learning Outcomes:

CLO#1: Explain classroom practices and environments that prevent or reduce injuries. (ILO: Critical Thinking)

CLO#2: Summarize how to respond to injuries and emergencies that potentially could occur in an early childhood program.

CLO#3: Describe experiences for children to learn habits that ensure their safety.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes and observations; access to the internet and Blackboard.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ECE 126B - ECE Best Practices - B

1 Credit(s)

Course Description: Examines the basics of establishing a healthy environment for young children. This course includes the CDA subject area of Healthy.

Course Learning Outcomes:

CLO#1: Describe experiences for children to learn habits that ensure their hygiene and nutrition.

CLO#2: Identify strategies to maintain indoor and outdoor early childhood environments that promote wellness.

CLO#3: Explain how to recognize and report child abuse and neglect. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes and observations; access to the internet and Blackboard.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ECE 126C - ECE Best Practices - C

1 Credit(s)

Course Description: Examines the basics of establishing a developmentally appropriate learning environment for young children. This course includes the CDA subject area of Learning Environment.

Course Learning Outcomes:

CLO#1: Describe how to organize indoor and outdoor areas that encourage growth and learning in all developmental domains through play and exploration. (ILO: Critical Thinking)

CLO#2: Plan a daily schedule and routines that support children's development and learning.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes; access to the internet and Blackboard.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ECE 135 - Applied Child Development

3 Credit(s)

Course Description: Explores social and emotional developmental milestones in young children. Examines strength-based guidance techniques to teach and support the development of social and emotional skills in young children. Emphasizes importance of developing nurturing and positive relationships with children to promote positive social and emotional development. This course includes the CDA subject areas of self, social, and guidance. Equivalent to ECE 135A, ECE 135B, ECE 135C

Course Learning Outcomes:

- CLO#1: Identify the primary social and emotional developmental milestones in young children.
- CLO#2: Summarize strategies to support the development of children's sense of self in relation to others.
- CLO#3: Generate strategies to build nurturing and positive relationships with children.
- CLO#4: Plan opportunities that help children develop positive social skills through daily routines and activities.
- CLO#5: Identify strength-based guidance tools that promote children's development of self-regulation skills. (ILO: Critical Thinking)

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 135A - Applied Child Development - A

1 Credit(s)

Course Description: Explores social and emotional developmental milestones in young children. This course includes the CDA subject area of Self.

Course Learning Outcomes:

- CLO#1: Identify the primary social and emotional developmental milestones in young children.
- CLO#2: Summarize strategies to support the development of children's sense of self in relation to others. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ECE 135B - Applied Child Development - B

1 Credit(s)

Course Description: Explores social and emotional developmental milestones in young children. Emphasizes importance of developing nurturing and positive relationships with children to promote positive social and emotional development. This course includes the CDA subject area of Social.

Course Learning Outcomes:

CLO#1: Identify the primary social and emotional developmental milestones in young children. (ILO: Communication)

CLO#2: Generate strategies to build nurturing and positive relationships with children.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ECE 135C - Applied Child Development - C

1 Credit(s)

Course Description: Examines strength-based guidance techniques to teach and support the development of social and emotional skills in young children. This course includes the CDA subject area of Guidance.

Course Learning Outcomes:

CLO#1: Plan opportunities that help children develop positive social skills through daily routines and activities. (ILO: Critical Thinking)

CLO#2: Identify strength-based guidance tools that promote children's development of self-regulation skills.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ECE 136 - ECE Professional Overview

3 Credit(s)

Course Description: Examines the importance of promoting family involvement, developing an effective early childhood classroom program based on the needs and interests of the children, and continuing professional growth. This course includes the CDA subject areas of families, program management, and professionalism. Community observations in early childhood settings are required. Equivalent to ECE 136A, ECE 136B, ECE 136C.

Course Learning Outcomes:

- CLO#1: Describe how to demonstrate respect for each child and their family including culture, language, family skills, needs, and interests. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#2: Identify strategies to build partnerships with families and communicate frequently and effectively.
- CLO#3: Describe a variety of ways for families to participate in an early childhood program.
- CLO#4: Describe how to use ongoing observation and assessment information to plan for individual children and the group.
- CLO#5: Explain the importance of ongoing professional development to continually improve one's knowledge and skills in working with young children and families.
- CLO#6: Describe ethical behavior working in the field of Early Childhood Education.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes; access to the internet and Blackboard.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 136A - ECE Professional Overview - A

1 Credit(s)

Course Description: Examines the importance of promoting family involvement in early childhood programs in order to promote children's positive development. This course includes the CDA subject area of Families.

Course Learning Outcomes:

- CLO#1: Describe how to demonstrate respect for each child and their family, including culture, language, family skills, needs, and interests. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#2: Identify strategies to build partnerships with families and communicate frequently and effectively.
- CLO#3: Describe a variety of ways for families to participate in an early childhood program.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes; access to the internet and Blackboard.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ECE 136B - ECE Professional Overview - B**1 Credit(s)**

Course Description: Examines the importance of developing an effective early childhood classroom program based on the needs and interests of the children. This course includes the CDA subject area of Program Management.

Course Learning Outcomes:

CLO#1: Describe how to use ongoing observation and assessment information to plan for individual children and the group. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes; access to the internet and Blackboard.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ECE 136C - ECE Professional Overview - C**1 Credit(s)**

Course Description: Examines the importance of continuing professional growth. This course includes the CDA subject area of Professionalism.

Course Learning Outcomes:

CLO#1: Explain the importance of ongoing professional development to continually improve one's knowledge and skills in working with young children and families.

CLO#2: Describe ethical behavior working in the field of Early Childhood Education. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes; access to the internet and Blackboard.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ECE 151 - Guiding Children in Group Settings

3 Credit(s)

Prerequisite(s):

ECE 125, ECE 161, ECE 163, or ED 225 or permission of Instructor.

Course Description: Addresses positive ways to support children's social-emotional development from birth to age eight by understanding children's behavior. Focuses on adult-child and child-child interactions and relationships.

Course Learning Outcomes:

- CLO#1: Identify how an adult's style of guiding children affects children's behavior and development. (ILO: Critical Thinking)
- CLO#2: Recognize that the ability to implement positive and effective child guidance is based on one's knowledge of child development.
- CLO#3: Describe the major positive guidance strategies.
- CLO#4: Identify aspects of early childhood classroom design that affect child guidance and behavior and their role in indirect guidance.
- CLO#5: Explain the role of observation in making child guidance decisions.
- CLO#6: Identify different sources and types of stress for young children and their impacts, as well as the concept of resilience.
- CLO#7: Identify strategies for preventing or reducing aggression, including bullying as a form of aggression.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for noting observations of children, access to Blackboard via computer.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 152 - Fostering Creativity

3 Credit(s)

Recommended Prerequisite(s):

ECE 125, ECE 161, ECE 163 or ED 225

Course Description: This course will focus on understanding and implementing a developmental approach to providing creative experiences and opportunities for young children. The class will be taught with an active learning and cooperative education philosophy using group discussions and hands-on learning.

Course Learning Outcomes:

- CLO#1: Describe how creativity in children is defined, observed, and assessed.
- CLO#2: Examine self-awareness of one's own creative potential. (ILO: Critical Thinking)
- CLO#3: Describe the relationship between creativity and the various developmental domains.
- CLO#4: Summarize how children's creativity is impacted by environmental influences.

CLO#5: Design creative strategies and experiences into the environment and each curriculum area.

CLO#6: Explain the importance of communicating with parents, school administrators, and others about the role of creativity in all learning.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes; access to the internet and Blackboard.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 154 - Children's Literature and Literacy

3 Credit(s)

Prerequisite(s):

ECE 125, ECE 161, ECE 163, or permission of Instructor.

Course Description: Surveys children's literature for young children and emphasizes setting up environments and planning activities that support emerging language and literacy skills in young children. Covers the developmental continuum of language, reading, and writing skills.

Course Learning Outcomes:

CLO#1: Describe the value and use of children's literature in promoting children's growth in all developmental domains.

CLO#2: Evaluate appropriate literature for young children.

CLO#3: Give examples of how to create a classroom environment and integrated curriculum that promote developmentally appropriate early language and literacy strategies.

CLO#4: Utilize the public library as a source of children's literature for both classroom and home. (ILO: Information Literacy)

CLO#5: Describe opportunities and resources for families to learn about early language and literacy development.

CLO#6: Describe the impact of exposure to diverse literature and literary experiences on early development.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes; library card; access to the internet and Blackboard.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 161 - Infant - Toddler Development

3 Credit(s)

Course Description: Explores child growth and development in detail from the prenatal period to age three, including elements of quality care for infants and toddlers. Direct experience observing infants and toddlers in a group setting will be an important part of the course.

Course Learning Outcomes:

- CLO#1: Describe early brain development and the impact of responsive caregiving and trauma on the developing brain.
- CLO#2: Identify major child development theories that inform infant-toddler growth and learning.
- CLO#3: Explain how culture affects child rearing practices and early child development.
- CLO#4: Describe major developmental milestones for infants and toddlers in all areas of development.
- CLO#5: Apply observation methods to identify developmental milestones in infants and toddlers. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Notebook and writing materials for taking notes and to conduct observations; access to Blackboard via computer.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 163 - Preschool - Primary Development

3 Credit(s)

Course Description: Explores child development and learning characteristics in detail from three through eight years of age, including elements of effective teaching practices for preschool and primary age children. Direct experience observing young children in a group setting will be an important part of the course.

Course Learning Outcomes:

- CLO#1: Explain the multiple influences on development and learning.
- CLO#2: Identify major child development theories that inform preschool/primary growth and learning.
- CLO#3: Explain how culture affects child rearing practices and preschool/primary child development.
- CLO#4: Apply observation methods to describe developmental characteristics in preschool/primary-age children. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Notebook and writing materials for taking notes and to conduct observations; access to Blackboard via computer.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 175 - Dev Appropriate Practices

3 Credit(s)

Prerequisite(s):

ECE 125, ECE 161, ECE 163, or ED 225 or permission of Instructor.

Course Description: Explores developmentally appropriate practices (DAP) for children from birth through age eight, and the role of play in DAP. Examines environments and practices that promote positive growth in all developmental domains.

Course Learning Outcomes:

- CLO#1: Define developmentally appropriate practices.
- CLO#2: Identify the essential components of developmentally appropriate practice for infants, toddlers, preschool age children, and school-age children. (ILO: Critical Thinking)
- CLO#3: Describe characteristics of play that contribute to a developmentally appropriate curriculum for the various age groups.
- CLO#4: Recognize components of developmentally appropriate environments for each age group.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes; access to the internet and Blackboard.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 199 - Special Studies - ECE

Var. (1-3) Credit(s)

Prerequisite(s):

A declared major in an Early Child Education program.

Course Description: Focuses study in a variety of Early Childhood Education topics to fulfill specific educational goals. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Identify strategies to promote developmentally appropriate practices in work with children related to the course topic.
- CLO#2: Explain how to incorporate knowledge of early development to support early learning. (ILO: Communication)
- CLO#3: Describe how to support the child within the context of their family and community culture.
- CLO#4: Analyze one's own practice to promote positive outcomes for each child.

CLO#5: Analyze one's own professionalism and role in the field of early childhood related to the course topic.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes; access to the internet and Blackboard.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ECE 241 - Promoting Cognitive Development

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 Expository Writing in Spanish, or designated placement,

WR 115Q as required,

ECE 161 and ECE 163

Course Description: Examines the development of integrated curriculum promoting cognitive development. Focuses on engaging children in units that are child-centered and play-based, supporting developmentally appropriate practices. Emphasis on developing curriculum based on observation of children's strengths, interests, and needs.

Course Learning Outcomes:

CLO#1: Explain the developmental continuum of cognitive skills in early childhood.

CLO#2: Develop engaging science, math, and brain-based curricula for children.

CLO#3: Apply diverse, developmentally appropriate, and creative teaching approaches to design math, science, and brain-based curricula. (ILO: Critical Thinking)

CLO#4: Evaluate curricula that promotes cognitive development.

CLO#5: Collaborate with peers to exchange information and resources to enhance curriculum planning.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36)

ECE 243 - Child Health - Physical Dev

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 - Expository Writing in Spanish, or designated placement,

WR 115Q as required, and

ECE 125 or ECE 161 or ECE 163 or ED 225 or permission of Instructor

Course Description: Provides an understanding of the essential elements of health, safety, and nutrition for young children. Methods and materials for enhancing motor development will be examined. Course is equivalent to ECE 243A, ECE 243B, and ECE 243C combined.

Course Learning Outcomes:

- CLO#1: Explain major factors that influence a child's health and development. (ILO: Critical Thinking)
- CLO#2: Design strategies to promote the physical development of young children.
- CLO#3: Describe nutrition concepts that support optimal health in young children including developmentally appropriate feeding practices.
- CLO#4: Identify common childhood infectious diseases and how to manage them.
- CLO#5: Describe practices to support children with special health care needs.
- CLO#6: Identify best practices to support safety in the classroom including strategies to respond appropriately to emergency situations.
- CLO#7: Identify common signs of child abuse and neglect in young children and describe reporting requirements.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 243A - Child Health - Physical Dev - A

1 Credit(s)

Prerequisite(s):

WR 115 or WR 114 Expository Writing in Spanish, or designated placement,

WR 115Q as required, and

ECE 125 or ECE 161 or ECE 163 or ED 225 or permission of Instructor

Course Description: Provides an understanding of the essential elements of health, safety, and nutrition for young children. Emphasis on factors influencing health and development. Learn strategies to support a community climate of health and wellness with children and families.

Course Learning Outcomes:

- CLO#1: Explain major factors that influence a child's health and development. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes, access to Blackboard via computer.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) land a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ECE 243B - Child Health - Physical Dev - B

1 Credit(s)

Prerequisite(s):

WR 115 or WR 114 Expository Writing in Spanish, or designated placement,

WR 115Q as required, and

ECE 125 or ECE 161 or ECE 163 or ED 225 or permission of Instructor

Course Description: Provides an understanding of the essential elements of health, safety, and nutrition for young children. Focus on supporting physical health through activity and nutrition for individuals in a group setting.

Course Learning Outcomes:

CLO#1: Design strategies to promote the physical development of young children.

CLO#2: Describe nutrition concepts that support optimal health in young children including developmentally appropriate feeding practices.

CLO#3: Identify common childhood infectious diseases and how to manage them. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes, access to Blackboard via computer.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) land a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ECE 243C - Child Health - Physical Dev - C

1 Credit(s)

Prerequisite(s):

WR 115 or WR 114 Expository Writing in Spanish, or designated placement,

WR 115Q as required and

ECE 125 or ECE 161 or ECE 163 or ED 225 or permission of Instructor.

Course Description: Provides an understanding of the essential elements of health, safety, and nutrition for young children. Focus on strategies to promote safety in the classroom and support children's special health care needs.

Course Learning Outcomes:

CLO#1: Describe practices to support children with special health care needs.

- CLO#2: Identify best practices to support safety in the classroom including strategies to respond appropriately to emergency situations. (ILO: Critical Thinking)
- CLO#3: Identify common signs of child abuse and neglect in young children and describe reporting requirements.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes, access to Blackboard via computer.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ECE 244 - Observation and Assessment

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 - Expository Writing in Spanish, or designated placement,
WR 115Q as required, and
ECE 161 or ECE 163 or ED 225 or permission of Instructor

Course Description: Focuses on the use of observation as a tool for discovering children's interests, assessing development and behavior, and planning responsive curriculum. Observations in community early childhood or elementary settings are required.

Course Learning Outcomes:

- CLO#1: Observe and assess children's development in cognition, creativity, social-emotional skills, literacy, language, and parent-child interactions.
- CLO#2: Analyze observations from a developmental perspective to gain insight into children's thinking and behavior. (ILO: Critical Thinking)
- CLO#3: Use observations to adapt the learning environment and curriculum to support each child's needs.
- CLO#4: Explain when and how to refer a child for further evaluation.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 245 - Social and Emotional Learning- ECE

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 - Expository Writing in Spanish, or designated placement

WR 115Q as required, and

ECE 100 or ECE 135, and ECE 161 or ECE 163

Course Description: Examines strategies to support social and emotional development in all settings with young children. Explores obstacles children face in developing self-regulation skills and strategies to help them overcome these obstacles. Analyzes common tools and models used to promote early social and emotional development. Emphasizes utilizing observation to assess children's needs, practicing positive guidance strategies, partnering with families, and proactively teaching social and emotional skills and expectations.

Course Learning Outcomes:

CLO#1: Assess the factors that influence a child's ability to develop positive social and emotional skills.

CLO#2: Analyze common models and tools used in the early childhood community to promote successful social and emotional development.

CLO#3: Examine the benefits and practices of partnering with families to support children's positive social and emotional development. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

CLO#4: Develop a concrete plan of support for individual children needing additional help with social and emotional skills.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 246 - Family and School Engagement

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 - Expository Writing in Spanish, or designated placement,

WR 115Q as required, and

ECE 125 or ECE 161 or ECE 163 or ED 225 or permission of Instructor.

Course Description: Examines the benefits of family engagement in educational settings for the children, families, and teachers involved. Emphasizes establishing effective relationships based on mutual respect that involve families in multiple contexts and provide a variety of opportunities for families to participate in their child's education.

Course Learning Outcomes:

CLO#1: Describe diverse family and community characteristics. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

CLO#2: Explain how to support and engage families through respectful, reciprocal relationships.

CLO#3: Explain how to involve families and communities in many aspects of children's development and learning.

CLO#4: Identify resources in the community which can serve as referral points for families in crisis or experiencing challenges.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 248 - Developmentally Diverse Learners

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 - Expository Writing in Spanish, or designated placement,

WR 115Q as required, and

ECE 161 or ECE 163 or ED 225 or permission of Instructor.

Course Description: Explores historical milestones for inclusion and accessibility in Education. Examines best practices to facilitate inclusion and learning for children with diverse developmental needs. Includes targeted embedded opportunities, environmental and curricular adaptations, and specialized instructional strategies. Special focus on the family experience and working as a team to support children with diverse developmental needs.

Course Learning Outcomes:

- CLO#1: Identify historical societal milestones that impact current diversity and inclusion practices in education. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#2: Describe the purpose and components of the Individualized Education Plan (IEP) and Individualized Family Service Plan (IFSP).
- CLO#3: Define roles and responsibilities of family, child, teacher, and specialists on the team to support children with diverse developmental needs.
- CLO#4: Develop embedded opportunities for targeted learning in daily routines, environments, and activities.
- CLO#5: Identify specific strategies to support common developmental needs in the social, emotional, cognitive, and communication domains.
- CLO#6: Analyze one's own philosophy, skills, and practice related to inclusion.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 252 - Family Child Care Environment

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 - Expository Writing in Spanish, or designated placement,

WR 115Q as required, and

ECE 161 and ECE 163 or permission of Instructor.

Course Description: Explores planning and evaluating physical and social environments for children in a multi-age family child care setting. Includes room arrangement, appropriate equipment, outdoor areas, and creation of a nurturing environment.

Course Learning Outcomes:

CLO#1: Analyze guidelines for establishing and maintaining developmentally appropriate family child care environments for young children.

CLO#2: Evaluate the key components of high-quality physical environments in family child care settings for young children. (ILO: Critical Thinking)

CLO#3: Assess children's use of family child care space.

CLO#4: Evaluate the importance of providing positive supportive environments and the components of such environments for children, parents, and caregiver(s).

CLO#5: Utilize developmental knowledge to create healthy, respectful, supportive, and challenging learning environments for children, both indoors and outdoors.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term

ECE 254 - Preschool Curriculum and Env

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 - Expository Writing in Spanish, or designated placement,

WR 115Q as required, and

ECE 163 or ECE 125 or permission of the Instructor.

Course Description: Designed for those working with preschool-aged children. Covers how to select, present, and evaluate materials and activities for 2½- to 5-year-old children. Emphasizes how to fulfill curriculum standards using developmentally appropriate teaching strategies.

Course Learning Outcomes:

CLO#1: Utilize observation and developmental knowledge to create engaging curricula and environments for preschool children.

CLO#2: Explain how effective early childhood curriculum meets the needs of the whole child.

CLO#3: Identify components of quality indoor and outdoor environments for young children as part of an effective curriculum.

CLO#4: Describe the components of positive and supportive environments for parents and staff.

CLO#5: Analyze one's own practice related to classroom environment and curriculum to promote positive outcomes for each child. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 255 - Infant-Toddler Curriculum and Env

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 - Expository Writing in Spanish, or designated placement,

WR 115Q as required, and

ECE 161 or permission of Instructor

Course Description: Designed for those working with infants and toddlers. Covers how to select, present, and evaluate materials and experiences for children birth to 2 1/2 years old. Emphasizes use of developmentally appropriate strategies.

Course Learning Outcomes:

CLO#1: Utilize observation and developmental knowledge to create environments and curricula for infants and toddlers.

CLO#2: Explain how effective curriculum for infants and toddlers meets the needs of the whole child.

CLO#3: Examine components of quality indoor and outdoor environments for infants and toddlers as part of an effective curriculum.

CLO#4: Explain the components of positive and supportive environments for parents and staff.

CLO#5: Analyze one's own practice related to classroom environment and curriculum to promote positive outcomes for each child. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 258 - Family Education and Support

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 - Expository Writing in Spanish, or designated placement,

WR 115Q as required, and

Course Description: Students will develop skills to provide effective family outreach and education to individuals or groups, in a center-based environment or in the family home. This course examines several principles of effective support including the parent-child relationship and attachment, supporting child development knowledge, responding to individual family culture, and incorporating a trauma-informed care approach.

Course Learning Outcomes:

- CLO#1: Describe the roles of attachment supporting both caregiver and child to increase family resiliency.
- CLO#2: Design activities and tools to support families in nourishing their child's development through an approach that builds on family strength.
- CLO#3: Identify trauma-informed care and adult learning principles that contribute to positive individual and group interactions. (ILO: Communication)
- CLO#4: Evaluate family strengths and needs within the context of the individual family culture.
- CLO#5: Describe the importance of self-care and reflective supervision in maintaining one's effectiveness as a child and family practitioner.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 261 - Advanced Practicum and Seminar

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 - Expository Writing in Spanish, or designated placement,

WR 115Q as required, and

all required 100-level ECE/ED courses, and

ECE 254 or ECE 255 or ED 256

Course Description: Provides supervised teaching of children in a lab school or community setting, applying what has been learned through coursework and previous lab experiences. This course prepares students to teach and work with children and their families.

Course Learning Outcomes:

- CLO#1: Establish effective professional relationships with relevant stakeholders. (ILO: Communication)
- CLO#2: Analyze one's own teaching strategies, interactions with children, and education philosophy.
- CLO#3: Implement developmentally effective approaches to extend children's learning and support a positive classroom community.

CLO#4: Apply ethical standards and professional guidelines in practice and reflect on their implementation.

CLO#5: Design and implement a specialized project that effectively aligns with National Association for the Education of Young Children (NAEYC) Standards for Early Childhood Professional Preparation.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

CWE PORTION: A required state minimum of (60) and a standard of (66) CWE hours per credit per term, not to exceed (72) hours per term. LECTURE PORTION: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per credit per term, not to exceed (12) hours per term.

ECE 265 - Children at Risk

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 - Expository Writing in Spanish, or designated placement,

WR 115Q as required, and

ECE 125 or ECE 161 or ECE 163 or ED 225 or permission of Instructor

Course Description: Explores the types of trauma experienced by young children, the impact of trauma on early brain development, and principles of working with children and families who have experienced trauma. Emphasizes trauma-informed practices and importance of self-reflection and self-care for professionals.

Course Learning Outcomes:

CLO#1: Identify types of trauma experienced by young children and the impact on brain development. (ILO: Information Literacy)

CLO#2: Summarize guiding principles of trauma-informed practices for working with children and families who have experienced trauma.

CLO#3: Describe strategies that provide a safe and inviting learning environment and build trusting relationships with children and families who have experienced trauma. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

CLO#4: Select activities for children to develop coping strategies and internal strengths.

CLO#5: Identify community referral resources for families in crisis.

CLO#6: Identify self-care strategies to employ while working with children and families who have experienced trauma.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 266 - Supporting Dual Language Learners

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 - Expository Writing in Spanish, or designated placement,

WR 115Q as required, and

ECE 125 or ECE 163 or ED 225 or permission of Instructor.

Course Description: Focuses on developmentally and linguistically appropriate practices for dual language learners as well as developing a perspective of cultural competency. Develop teaching strategies and cultural activities to support multi-lingual speaking children and parents in a variety of educational situations.

Course Learning Outcomes:

CLO#1: Identify developmentally, culturally, and linguistically appropriate practices to use with second language learners. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

CLO#2: Describe the process of second language acquisition and how the brain processes language.

CLO#3: Analyze one's sensitivity to and respect for cultural differences and attitudes.

CLO#4: Develop strategies to support communication with linguistically diverse children and families. (ILO: Communication)

CLO#5: Explain how culture influences communication with individual children and their families.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 275 - Equity- Diversity- Inclusion in ED

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 - Expository Writing in Spanish, or designated placement,

WR 115Q as required, and

ECE 125 or ECE 161 or ECE 163 or ED 225 or permission of Instructor.

Course Description: Explores the role of the adult in helping children understand and embrace diversity. Examines current practices to promote an inclusive community in the classroom and beyond where individuals uphold values of equity, inclusion, and social justice. Emphasizes the important role of families as partners in supporting children's development of these skills.

Course Learning Outcomes:

CLO#1: Explain anti-bias education and its goals for both children and adults.

- CLO#2: Analyze how stereotypes and societal prejudices have advantaged or disadvantaged oneself and others. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#3: Assess a learning environment for the extent to which it is inclusive, safe, and supportive for all children and their families.
- CLO#4: Design learning activities that support children's understanding of equity, diversity and inclusion.
- CLO#5: Develop strategies to help children build skills and language that promote diversity, equity, inclusion, and social justice.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 285 - The Early Childhood Professional

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 - Expository Writing in Spanish, or designated placement,

WR 115Q as required, and

ECE 100 or ECE 136

Course Description: Explores professional code of ethical conduct, aspects of leadership as an early childhood professional, and the development of a professional philosophy and portfolio. Provides the opportunity to engage professionally in a community project.

Course Learning Outcomes:

- CLO#1: Define one's role as a member of the profession of Early Childhood Education.
- CLO#2: Utilize the NAEYC Code of Ethical Conduct in making informed decisions.
- CLO#3: Describe the role of ECE professionals as continuous and collaborative learners.
- CLO#4: Demonstrate the ability to reflect and think critically about one's work with young children and families. (ILO: Critical Thinking)
- CLO#5: Implement strategies to advocate for important issues affecting young children and families.
- CLO#6: Explain the role of leadership in the ECE field and emerging leadership qualities in oneself.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECE 295 - Mgmt of Early Childhood Programs

3 Credit(s)

Prerequisite(s):

WR 115 or WR 114 - Expository Writing in Spanish, or designated placement,

WR 115Q as required, and

ECE 136 or permission of Instructor

Course Description: Studies principles and practices in supervision and management of preschool and child care centers, including organization, budgeting, personnel records, relationships with community resources, regulatory agencies, and working with parents. Community observations in early childhood settings are required.

Course Learning Outcomes:

CLO#1: Articulate a vision for an early childhood program.

CLO#2: Describe a variety of strategies for effective supervision, coaching, mentoring of program staff.

CLO#3: Examine principles and strategies for effective early childhood program leadership and management.

CLO#4: Explain the director's role in building and supporting community in an early childhood program involving children, families, and staff. (ILO: Communication)

CLO#5: Examine quality indicators of an early childhood program.

CLO#6: Assess the effectiveness of the administration of an early childhood program.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

Economics

ECON 115 - Introduction to Economics

3 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Surveys the principles of economics, evolution of economic thought, and development of present United States economic structure. Covers concepts of supply and demand, opportunity costs, and history of economic ideas.

Course Learning Outcomes:

CLO#1: Describe complex economic theories, principles and practices through written and oral expression. (ILO: Communication)

CLO#2: List the succession of economic concepts that grow in complexity throughout the course.

CLO#3: Describe how personal choice and governmental policies enhance efforts in sustainability and environmental protection.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ECON 201Z - Principles of Microeconomics

4 Credit(s)

Prerequisite(s):

WR 121Z or designated placement

Recommended Prerequisite(s): BT 168

Course Description: Examines how consumers and firms make choices when facing scarce resources, and how those choices are related to government policy and market outcomes, such as prices and output.

Course Learning Outcomes:

CLO#1: Articulate the concepts of opportunity costs and trade-offs.

CLO#2: Explain producer and consumer behavior using economic models.

CLO#3: Analyze the relationship between supply and demand and its applications across various economic contexts. (ILO: Critical Thinking)

CLO#4: Identify the impact of market failures and government policy on efficiency and welfare.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ECON 202Z - Principles of Macroeconomics

4 Credit(s)

Prerequisite(s):

WR 121Z or designated placement

Course Description: Examines the aggregate activity of a market economy, economic growth, inflation, unemployment, and the use of fiscal and monetary policy to address macroeconomic problems.

Course Learning Outcomes:

CLO#1: Interpret basic macroeconomic indicators including GDP, unemployment, and inflation.

CLO#2: Identify the determinants of economic growth.

CLO#3: Apply economic models to explain macroeconomic outcomes.

CLO#4: Compare fiscal and monetary policy tools, and their uses and economic impacts. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

Education

ED 120 - Leadership I

1 Credit(s)

Course Description: Introduces basic skills in leadership. Special attention is given to developing basic leadership skills and cultural systems awareness.

Course Learning Outcomes:

CLO#1: Describe elements, challenges and strengths of leadership. (ILO: Communication)

CLO#2: Identify own experiences in balancing academic, work and personal commitments.

CLO#3: Identify ways to accommodate change and identify change styles.

CLO#4: Relate values and ethics to leadership styles.

CLO#5: Build on existing leadership skill set and develop new skills to strengthen personal leadership philosophy and enhance practical application of learning.

CLO#6: Describe the expectations of professional level discussion and appropriate leadership communication.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ED 121 - Leadership II

1 Credit(s)

Prerequisite(s):

ED 120

Course Description: Introduces basic skills in leadership. Special attention is given to assessing and developing basic management skills and organizational systems awareness.

Course Learning Outcomes:

- CLO#1: Identify management styles and recognize the importance of balancing their leadership skills with management skills.
- CLO#2: Identify and use skills needed to collaborate and effectively complete course tasks and learning goals. (ILO: Critical Thinking)
- CLO#3: Apply existing leadership skills and knowledge with new skills and learning to overcome challenges and to solve problems.
- CLO#4: Utilize advocacy skills while incorporating persuasion to inspire a shared vision.
- CLO#5: Identify, create, and manage a successful meeting.
- CLO#6: Recognize the importance of self-evaluation which provides the opportunity for improvement.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ED 122 - Leadership III

1 Credit(s)

Prerequisite(s):

ED 121

Course Description: Selected projects are provided to teams in the course that will require the utilization of effective leadership and management skills to achieve success. Special attention is given to assessing and providing the students meaningful coaching and feedback on their use of the key leadership and management skills.

Course Learning Outcomes:

- CLO#1: Express ideas clearly and consistently in oral, written, and visual work.
- CLO#2: Create and understand a balance of the time and effort necessary to succeed.
- CLO#3: Present a positive and confident persona evident to themselves and others.
- CLO#4: Collaborate effectively to achieve course/ learning goals. (ILO: Communication)
- CLO#5: Internalize and assimilate information into new situations.
- CLO#6: Build awareness and recognize own and others' emotions, assumptions, biases, and cultural contexts while envisioning creative approaches to issues and problems.
- CLO#7: Apply knowledge through a global perspective with an awareness of context, personal assumptions, and worldview.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ED 170 - Introductory Practicum

Var. (1-2) Credit(s)**Prerequisite(s):**

ECE 125 or ECE 161 or ECE 163 or ED 225.

Course Description: Provides supervised work with children in a classroom setting. The student will work with Instructor to identify a different site for each practicum credit.

Course Learning Outcomes:

CLO#1: Reflect on personal suitability for working with children from practicum experience.

CLO#2: Reflect on practice, observations, and professional growth in the classroom setting.
(ILO: Critical Thinking)

CLO#3: Demonstrate professional conduct in the practicum setting.

Typical Required and Recommended Equipment and Materials: Notebook and pen or pencil for taking notes; access to the internet and LMS.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard RCC delivery of (33) lab hours per credit.

ED 200 - Introduction to Teaching**4 Credit(s)****Corequisite(s):**

WR 115 or designated placement

WR 115Q as required

Course Description: Investigates the historical, global, social, legal and philosophical foundations of education. Provides an overview of the structure and contemporary issues of the American education system. Examines special considerations for diverse learners (e.g. special education, English language learners, etc.). Explores the roles and ethical consideration of the education profession.

Course Learning Outcomes:

CLO#1: Describe one's connection to the education field and the role of schools in society.

CLO#2: Examine legal and ethical issues in the education field. (ILO: Information Literacy)

CLO#3: Explain the benefits of inclusive classrooms and teaching strategies for diverse learners.

CLO#4: Describe how schools can be responsive in creating a community of learners.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ED 220 - Introduction to CTE in Oregon

3 Credit(s)

Prerequisite(s):

Self placement at WR 115 or above.

Course Description: This course provides an introduction to career and technical education. Includes the historical context of legislative development of career and technical education programs. Explores Federal and Oregon requirements for approved programs of study, funding mechanisms, integration of CTSOs, inclusion of industry and workforce development partners, and curricular development specific to CTE. Surveys current trends and challenges in CTE education. This course supports teacher licensure or endorsement requirements for CTE educators.

Course Learning Outcomes:

- CLO#1: Develop an awareness of the ethics, responsibilities and professional practices required of CTE educators such as student confidentiality, mandatory reporting, licensure, and model core teaching standards as well as elements specific to CTE content areas (budgeting, industry and postsecondary partnerships, program of study development, etc.) (ILO: Information Literacy)
- CLO#2: Demonstrate understanding of the intended premise for career and technical educators as defined by the Carl D. Perkins Act of 2018 and its implementation in Oregon, including providing equitable access to all students. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#3: Evaluate and apply the quality indicators for CTE programs of study and teacher practices that support quality teaching and learning.

Typical Required and Recommended Equipment and Materials: Access to the Internet.

ACTI Code and Course Type

211 Stand Alone CTE Prep

Length of Course:

A required state minimum of 30 and a standard RCC delivery of 33 lecture hours per term, not to exceed 36 hours per term.

ED 221 - Instructional Strategies

3 Credit(s)

Course Description: This course covers pedagogical theory, backwards design of unit and lesson plans, effective formative and summative assessments, and differentiation and engagement strategies with emphasis on the CTE classroom. The course provides a foundation for teaching in a project-based learning environment utilizing Oregon Knowledge and Skill Statements for programs of study.

Course Learning Outcomes:

- CLO#1: Develop curriculum aligned with state standards in CTE using evidence-based instructional strategies. (ILO: Communication)
- CLO#2: Create formative assessments throughout a curricular unit and respond to results to improve student learning. (ILO: Critical Thinking)

CLO#3: Create effective summative assessments for CTE courses.

CLO#4: Use evidence-based engagement and instructional strategies in the CTE classroom.

ACTI Code and Course Type

220 Occupational Supplementary

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ED 225 - Child Development

4 Credit(s)

Corequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Explores child growth and development from prenatal through adolescence. Focuses on studying and observing the physical, cognitive, language, social and emotional aspects of the individual during this period. Examines principles and theories of learning. Formerly offered as ED165. Requires observing children in a classroom setting.

Course Learning Outcomes:

CLO#1: Describe the developmental needs of children prenatal to 18 years.

CLO#2: Summarize the multiple influences on development and learning.

CLO#3: Identify the major child development theories.

CLO#4: Explain how culture influences child-rearing practices and child development. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

CLO#5: Apply observation methods for all developmental domains.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ED 247 - Social and Emotional Learning K-6

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

ED 200 and ED 225

Course Description: Explores strategies to support children in developing the social and emotional tools needed to regulate their own behavior, exhibit prosocial behavior, and master social skills. Focuses on creating equitable learning environments that support students' personal

and collective well-being. Emphasis on social and emotional strategies to support teacher wellness. Examines Social and Emotional Learning (SEL) framework for K-12 in Oregon.

Course Learning Outcomes:

- CLO#1: Develop activities that promote children's self-awareness and identity.
- CLO#2: Analyze social and emotional strategies that foster student independence.
- CLO#3: Determine strategies to support children's establishment and maintenance of healthy, supportive relationships in diverse settings. (ILO: Critical Thinking)
- CLO#4: Design strength-based, individual supports to address specific children's social and emotional skills and needs.
- CLO#5: Devise a plan to improve teacher's own social and emotional competence to create a positive environment with children through modeling and coaching.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ED 256 - Elementary Curriculum Design

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

ED200 and ED 225

Course Description: Examines curriculum design that incorporates multiple subject areas and reflects developmentally appropriate teaching strategies. Explores culturally relevant curriculum that promotes an inclusive learning community. Emphasizes the role of the teacher in supporting a playful mindset in the classroom community. Utilizes Oregon content standards and principles of backward design.

Course Learning Outcomes:

- CLO#1: Articulate a variety of developmentally appropriate teaching/learning approaches for elementary school-age children.
- CLO#2: Develop appropriate strategies to build a positive classroom community.
- CLO#3: Evaluate curricula resources to determine if they are developmentally appropriate and support child construction of knowledge. (ILO: Critical Thinking)
- CLO#4: Create meaningful curricula that meets state standards and supports play-based activities for children in grades K-5.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ED 282 - Teaching and Learning Excellence

3 Credit(s)

Prerequisite(s):

RCC Employee(s)

Course Description: This course provides community college educators with practical and progressive techniques on what to do inside and outside the classroom to help students succeed. These practices and strategies can be applied to both in-person and online learning formats. Additionally, this course covers basic tools for navigating instructor responsibilities at Rogue Community College.

Course Learning Outcomes:

CLO#1: Create an inclusive environment that promotes respectful interaction and meaningful connections, incorporating strategies such as community building and collaborative learning.

CLO#2: Design effective instruction by utilizing backward design, employing strategic macro and micro planning, and integrating inclusive and flexible practices to meet diverse learner needs. (ILO: Critical Thinking)

CLO#3: Employ effective active learning practices and leverage technology to promote student engagement, autonomy, and reflective learning.

CLO#4: Design formative and summative assessments that align with learning outcomes, and develop tools to provide feedback, encourage self-reflection, and support peer assessment.

ACTI Code and Course Type

220 Occupational Supplementary

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours, not to exceed (36) hours per term.

ED 283 - Effective Online Instruction

3 Credit(s)

Prerequisite(s):

RCC Employee(s).

Course Description: This course covers synchronous and asynchronous online course design, management, and best practices for community college instructors. Topics covered include backward design, content creation, assessment, student engagement strategies, communication with students, accessibility, and equity. By the end of the term, students will create one complete lesson ready for online delivery.

Course Learning Outcomes:

CLO#1: Develop engaging and accessible online course content and multimedia.

CLO#2: Develop formative and summative online assessments that enhance learning.

CLO#3: Facilitate engaging online discussions and open communication. (ILO: Communication)

CLO#4: Develop an online class environment that enhances equity.

CLO#5: Use student feedback and self-reflection practices to improve course content.

Typical Required and Recommended Equipment and Materials: Access to the Internet and Rogue Online

ACTI Code and Course Type

220 Occupational Supplementary

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ED 284 - Intro to CTE in Community Colleges

3 Credit(s)

Prerequisite(s):

Course is available to RCC employees.

Course Description: CTE courses can be taught in a variety of ways. Blended learning is an educational strategy that features multiple teaching methods to help students learn more effectively than one method on its own. This course explores a variety of teaching methods CTE instructors may use in the classroom.

Course Learning Outcomes:

CLO#1: Varies based on course focus.

ACTI Code and Course Type

220 Occupational Supplementary

Length of Course:

A required state minimum of 30 and a standard delivery of 33 lecture hours, not to exceed 36 hours, per term.

Emergency Medical Services

EMS 160 - Electrocardiogram Interpretation

2 Credit(s)

Recommended Prerequisite(s):

Some form of medical training or background is suggested (i.e. EMT, CNA, etc.).

Course Description: Focuses on a basic introduction and understanding of electrocardiograms (ECGs). It covers information needed to interpret ECGs including anatomy and physiology of the human heart and how it relates to the ECG. Students will also learn basic electrophysiology, how to interpret sinus rhythms, atrial rhythms, junctional and ventricular rhythms, as well as AV blocks and pacemaker rhythms. This course will periodically discuss patient conditions related to an electrocardiogram and make suggestions towards the treatment of those patients. Finally, 12-lead electrocardiograms are introduced and how they relate to patients. Information from this course augments student knowledge for those who desire to work in various medical occupations.

Course Learning Outcomes:

- CLO#1: Distinguish key principles of cardiac anatomy, physiology, and electrophysiology.
- CLO#2: Identify key principles in electrocardiogram (ECG) interpretation.
- CLO#3: Distinguish specific ECG rhythms - sinus, atrial, junctional, and ventricular.
- CLO#4: Compare specific ECG concepts - AV blocks, pacemaker rhythms, and 12-lead ECG.
- CLO#5: Apply concepts learned in the classroom to the assessment and management of simulated patients. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

EMS 165 - Intro to Pharmacology in Healthcare**2 Credit(s)****Prerequisite(s):**

MTH 20 or designated placement.

Course Description: Introduces the world of pharmacology beginning with regulations and safety issues, working through different medication preparations and dosages, and medical math and safe drug calculations. This course will periodically discuss patient conditions related to medications and the effects medications have on the patient's body. And, finally, the course introduces correct medication administration procedures and the medications prescribed or administered that specifically target the autonomic nervous and cardiovascular systems. Information from this course augments student knowledge for those who desire to work in various medical occupations including emergency medical technician, medical assistant, nursing, paramedicine, or other allied health professions. It can be used as a pharmacology refresher or continuing education for professionals already practicing in their specific field of medical practice.

Course Learning Outcomes:

- CLO#1: Outline key principles of pharmacology, consumer safety, and drug regulation.
- CLO#2: Distinguish common drug names and classifications, common sources of medication and their effects on the body.
- CLO#3: Interpret and employ key principles in medication preparations and supplies, systems of measurement, and appropriate safe dosage calculations.
- CLO#4: Highlight techniques of medication administration, either parenteral or enteral route. (ILO: Critical Thinking)
- CLO#5: Distinguish Autonomic and Cardiovascular specific medications.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

EMS 211 - AEMT Intermediate I

4 Credit(s)

Prerequisite(s):

Current Oregon EMT licensure. This is a special admission course and requires completion of an application process prior to admission. Prior to clinical experience a criminal background check and drug screen must be completed.

Corequisite(s):

EMS 211L

Course Description: EMS211 is the first section of a course that prepares individuals for National Registry certification as Advanced EMT and licensure in Oregon as an Emergency Medical Technician - Intermediate. The course will develop a student's ability to recognize and treat the symptoms of illness and injury in the pre-hospital setting.

Course Learning Outcomes:

- CLO#1: Outline and apply key principles of emergency care according to Advanced EMT education guidelines.
- CLO#2: Apply concepts learned in the classroom to the assessment and management of simulated patients in the lab setting. (ILO: Critical Thinking)
- CLO#3: Demonstrate effective teamwork in managing simulated emergency scenarios.
- CLO#4: Outline and implement self-care strategies for persons who intervene in emergency situations. Formulate a plan of self-care.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

EMS 211L - AEMT Intermediate I Lab

1 Credit(s)

Prerequisite(s):

Current Oregon EMT licensure. This is a limited-entry course and requires completion of an application process prior to admission. Prior to clinical experience a criminal background check and drug screen must be completed.

Corequisite(s):

EMS 211

Course Description: EMS211L develops students' abilities to recognize and treat the symptoms of illness and injury in classroom labs and simulated emergency scenes. Includes skills in patient assessment, basic and advanced airway management, trauma assessment and management, medication administration, and the use of automated external defibrillators (AED).

Course Learning Outcomes:

- CLO#1: Outline and apply key principles of emergency care according to Advanced EMT education guidelines.
- CLO#2: Apply concepts learned in the classroom to the assessment and management of simulated patients in the lab setting. (ILO: Critical Thinking)
- CLO#3: Demonstrate effective teamwork in managing simulated emergency scenarios.
- CLO#4: Outline and implement self-care strategies for persons who intervene in emergency situations. Formulate a plan of self-care.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

EMS 212 - AEMT Intermediate II

4 Credit(s)

Prerequisite(s):

Current Oregon EMT or A-EMT licensure. Successful completion of EMS 211L and EMS 211L . Prior to clinical experience a criminal background check and drug screen must be completed.

Corequisite(s):

EMS 212L and EMS 222

Course Description: EMS212 is the second section of a course that prepares individuals for National Registry certification as Advanced EMT and licensure in Oregon as an Emergency Medical Technician - Intermediate. The course will develop a student's ability to recognize and treat the symptoms of illness and injury in the pre-hospital setting.

Course Learning Outcomes:

- CLO#1: Demonstrate an understanding of key principles of emergency care of the AEMT and EMT-Intermediate.
- CLO#2: Analyze and distinguish various electrocardiogram rhythms outlined in the Oregon EMT-Intermediate Scope.
- CLO#3: Apply concepts learned in the classroom to the assessment and management of simulated patients in the lab setting. (ILO: Critical Thinking)
- CLO#4: Demonstrate effective teamwork in managing simulated emergency scenarios.

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

EMS 212L - AEMT Intermediate II Lab

1 Credit(s)

Prerequisite(s):

Current Oregon EMT or A-EMT licensure. Successful completion of EMS 211 and EMS 211L. Prior to clinical experience a criminal background check and drug screen must be completed.

Corequisite(s):

EMS 212 and EMS 222

Course Description: EMS212L develops students' abilities to recognize and treat the symptoms of illness and injury in classroom labs and simulated emergency scenes. Includes skills in patient assessment, basic airway management, trauma assessment and management, medication administration, and the use of automated external defibrillators (AED) as well as advanced cardiac life support skills and manual defibrillation.

Course Learning Outcomes:

CLO#1: Demonstrate an understanding of key principles of emergency care of the AEMT and EMT-Intermediate.

CLO#2: Analyze and distinguish various electrocardiogram rhythms outlined in the Oregon EMT-Intermediate Scope.

CLO#3: Apply concepts learned in the classroom to the assessment and management of simulated patients in the lab setting. (ILO: Critical Thinking)

CLO#4: Demonstrate effective teamwork in managing simulated emergency scenarios.

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

EMS 213 - AEMT Intermediate III

2 Credit(s)

Prerequisite(s):

Current Oregon EMT or A-EMT licensure. Successful completion of EMS 212, EMS 212L, and EMS 222. Prior to clinical experience a criminal background check and drug screen must be completed.

Corequisite(s):

EMS 213L and EMS 223

Course Description: EMS213 is the third section of a course that prepares individuals for National Registry certification as Advanced EMT and licensure in Oregon as an Emergency Medical Technician - Intermediate. The course will develop a student's ability to recognize and treat the symptoms of illness and injury in the pre-hospital setting.

Course Learning Outcomes:

- CLO#1: Outline and apply key principles of emergency care of the AEMT and EMT-Intermediate.
- CLO#2: Formulate and execute a plan to care for a complex medical patient using the EMT-Intermediate scope of practice.
- CLO#3: Apply concepts learned in the classroom to the assessment and management of simulated patients in the lab setting. (ILO: Critical Thinking)
- CLO#4: Demonstrate effective teamwork in managing simulated emergency scenarios.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

EMS 213L - AEMT Intermediate III Lab

1 Credit(s)

Prerequisite(s):

Current Oregon EMT or A-EMT licensure. Successful completion of EMS 212, EMS 212L, and EMS 222. Prior to clinical experience a criminal background check and drug screen must be completed.

Corequisite(s):

EMS 213 and EMS 223

Course Description: EMS213L develops students' abilities to recognize and treat the symptoms of illness and injury in classroom labs and simulated emergency scenes. Includes skills in patient assessment, basic and advanced airway management, trauma assessment and management, medication administration, and the use of automated external defibrillators (AED) as well as advanced cardiac life support skills and manual defibrillation.

Course Learning Outcomes:

- CLO#1: Outline and apply key principles of emergency care of the AEMT and EMT-Intermediate.
- CLO#2: Formulate and execute a plan to care for a complex medical patient using the EMT-Intermediate scope of practice.
- CLO#3: Apply concepts learned in the classroom to the assessment and management of simulated patients in the lab setting. (ILO: Critical Thinking)
- CLO#4: Demonstrate effective teamwork in managing simulated emergency scenarios.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

EMS 222 - AEMT Intermediate - Clinical II

1 Credit(s)**Prerequisite(s):**

Current Oregon EMT or A-EMT licensure. Successful completion of EMS 211 and EMS 211L. Prior to clinical experience a criminal background check and drug screen must be completed.

Corequisite(s):

EMS 212, EMS 212L, and EMS 223

Course Description: This is the clinical experience that will focus on practical application of the skills and knowledge acquired in the lecture and lab components of the AEMT lecture and lab courses.

Course Learning Outcomes:

- CLO#1: Perform an adequate patient assessment and formulate and implement a treatment plan for patients with a variety of medical and traumatic emergencies.
- CLO#2: Safely perform numerous emergency procedures on live patients of various age groups.
- CLO#3: Demonstrate leadership in the management of multiple personnel on emergency scenes. (ILO: Critical Thinking)
- CLO#4: Demonstrate workplace expectations regarding attendance, safety, conduct, and professionalism.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) clinical/lab hours per term, not to exceed (36) hours per term. (12 hours of ambulance time and 24 hours of hospital time)

EMS 223 - AEMT Intermediate - Clinical III**2 Credit(s)****Prerequisite(s):**

Current Oregon EMT or A-EMT licensure. Successful completion of EMS 212, EMS 212L, and EMS 222. Prior to clinical experience a criminal background check and drug screen must be completed.

Corequisite(s):

EMS 213, EMS 213L

Course Description: This is the clinical and field experiences that will focus on practical application of the skills and knowledge acquired in lecture and lab components of the AEMT course.

Course Learning Outcomes:

- CLO#1: Perform an adequate patient assessment and formulate and implement a treatment plan for patients with a variety of medical and traumatic emergencies.

CLO#2: Safely perform numerous emergency procedures on live patients of various age groups.

CLO#3: Demonstrate leadership in the management of multiple personnel on emergency scenes. (ILO: Critical Thinking)

CLO#4: Demonstrate workplace expectations regarding attendance, safety, conduct, and professionalism.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lab hours per term, not to exceed (72) hours per term. (12 hours of ambulance time and 48 hours of hospital time per term.)

EMS 270 - Paramedic Preparation

3 Credit(s)

Prerequisite(s):

ES 132 or EMT Certification

Course Description: Prepares students for entry into the Paramedic course series. Covers basic concepts of anatomy and physiology related to emergency care. Investigates the pathophysiology of common diseases and the likely patient presentations for each. Topics include patient assessment, differential diagnosis, critical thinking, and medical decision-making.

Course Learning Outcomes:

CLO#1: Recall and describe emergency pathophysiology and basic principles of pharmacology.

CLO#2: Illustrate connections between pathophysiology and patient presentations for a variety of conditions.

CLO#3: Demonstrate appropriate application of the topics presented, within the student's current EMS Scope of Practice. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

EMS 271 - Paramedic Care and Practice I

9 Credit(s)

Prerequisite(s):

Current Oregon EMT, AEMT, or EMT-Intermediate license. This is a special admission course and requires the completion of an application process before admission.

Corequisite(s):

EMS 281

Course Description: The first of a four-term sequence in the paramedic education series. Covers patient assessment, advanced pathophysiology, airway management, general pharmacology, respiratory emergencies, intravenous (IV) therapy, obstetrics, and pediatrics. Lab and simulated emergency scene experiences will develop students' abilities to recognize and treat the symptoms of illness and injury. Includes hands-on assessment and utilizes Basic and Advanced Life Support equipment to apply the concepts learned. It also develops skills and abilities in managing emergency medical scenes, coordinating resources, and delegating tasks as appropriate.

Course Learning Outcomes:

- CLO#1: Work effectively with others to complete complex tasks, both in the classroom and in lab scenarios.
- CLO#2: Recall and describe emergency pathophysiology and basic principles of pharmacology.
- CLO#3: Apply concepts learned in the classroom to the assessment and management of simulated patients in the lab setting. (ILO: Critical Thinking)
- CLO#4: Practice appropriately applying the topics presented within the Paramedic Scope of Practice.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (180) and a standard RCC delivery of (198) lecture/lab hours per term, not to exceed (216) hours per term.

EMS 272 - Paramedic Care and Practice II

9 Credit(s)

Prerequisite(s):

Current Oregon EMT, AEMT, or EMT-Intermediate license and completion of EMS 271 and EMS 281.

Corequisite(s):

EMS 282

Course Description: Second course in the paramedic series. Covers the anatomy and electrophysiology of the heart, ECG and 12-Lead interpretation, and the pathophysiology and pre-hospital management of cardiac disease, including the Advanced Cardiac Life Support Provider (ACLS) course. It also covers neurologic, psychiatric, and special needs patients. Lab and simulated emergency scene experiences will develop students' abilities to recognize and treat symptoms of illness and injury. Includes hands-on assessment and utilizes both Basic and Advanced Life Support equipment to apply the concepts learned. It also develops skills and abilities in managing emergency medical scenes, coordinating resources, and delegating tasks as appropriate.

Course Learning Outcomes:

- CLO#1: Work effectively with others to complete complex tasks, both in the classroom and in lab scenarios.

CLO#2: Recall and describe cardiac care, anatomy, and ECG Interpretation.

CLO#3: Apply concepts learned in the classroom to the assessment and management of simulated patients in the lab setting. (ILO: Critical Thinking)

CLO#4: Demonstrate appropriate application of the topics presented, within the Paramedic Scope of Practice.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (180) and a standard RCC delivery of (198) lecture/lab hours per term, not to exceed (216) hours per term.

EMS 273 - Paramedic Care and Practice III

9 Credit(s)

Prerequisite(s):

Current Oregon EMT, AEMT, or EMT-Intermediate license and completion of EMS 272 and EMS 282.

Corequisite(s):

EMS 283

Course Description: The third course in the paramedic series. Covers the principles and practices for identifying and managing trauma patients, and a Pre-hospital Trauma Life Support (PHTLS) course is included. Reviews neonatal care and pediatrics covered in EMS271 and includes the Pediatric Advanced Life Support (PALS) certification course. It also covers EMS Operations, gastrointestinal and renal issues, toxicology, infectious disease, environmental emergencies, endocrinology, and ethical and legal issues. Labs and simulated emergency scene experiences will develop students' abilities to recognize and treat the symptoms of illness and injury. Includes hands-on assessment and utilizes both Basic and Advanced Life Support equipment to apply the concepts learned. It also develops skills and abilities in managing emergency medical scenes, coordinating resources, and delegating tasks as appropriate.

Course Learning Outcomes:

CLO#1: Work effectively with others to complete complex tasks, both in the classroom and in lab scenarios.

CLO#2: Demonstrate appropriate management of medical and trauma emergencies. (ILO: Critical Thinking)

CLO#3: Apply concepts learned in the classroom to the assessment and management of simulated patients in the lab setting.

CLO#4: Demonstrate appropriate application of EMS care, within the Paramedic Scope of Practice.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (180) and a standard RCC delivery of (198) lecture/lab hours per term, not to exceed (216) hours per term.

EMS 281 - Paramedic Clinical Practice I

3 Credit(s)

Prerequisite(s):

Current Oregon EMT, AEMT, or EMT-Intermediate license.

Corequisite(s):

EMS 271

Course Description: The clinical experience of this course will focus on airway management in the anesthesia setting, patient assessment in the Emergency Department, and Basic Life Support (BLS) assessments with a Paramedic Field Preceptor. The class will begin with an orientation session to the clinical tracking system and the RCC Paramedic Clinical Manual. Specific procedures and issues common to clinical sites will be reviewed with the students prior to beginning their rotations. Clinical orientation to each site may be required prior to clinical placement.

Course Learning Outcomes:

- CLO#1: Safely perform emergency procedures, including endotracheal intubation on live patients of various age groups.
- CLO#2: Perform an adequate patient assessment and formulate and implement a treatment plan for patients with a variety of medical and traumatic emergencies. (ILO: Critical Thinking)
- CLO#3: Demonstrate workplace expectations regarding attendance, safety, conduct, and professionalism.
- CLO#4: Perform as an individual with appropriate bedside manner during patient care situations.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (90) and a standard RCC delivery of (99) lab hours in clinical sites such as the OR, ER, and a field site, not to exceed (108) hours per term. Hours, sites, and clinical times vary depending on clinical site availability and actual experience.

EMS 282 - Paramedic Clinical Practice II

3 Credit(s)

Prerequisite(s):

Current Oregon EMT, AEMT, or EMT-Intermediate license and completion of EMS 271 and EMS 281 with a "C" or better.

Corequisite(s):

EMS 272

Course Description: The clinical experience of this course will focus on airway management in the OR, patient assessment and treatment and application of paramedic skills in the emergency department, labor and delivery, and the care of pediatric patients through assessments in the ER

and NICU. Specific procedures and issues common to these clinical sites will be reviewed with the students prior to beginning their rotations.

Course Learning Outcomes:

- CLO#1: Safely perform emergency procedures on live patients of various age groups, as outlined in the clinical manual.
- CLO#2: Perform an appropriate patient assessment and formulate and implement a treatment plan for patients with a variety of medical and traumatic emergencies. (ILO: Critical Thinking)
- CLO#3: Demonstrate workplace expectations regarding attendance, safety, conduct, and professionalism.
- CLO#4: Perform as an individual with appropriate bedside manner during patient care situations.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (90) and a standard RCC delivery or (99) clinical/lab hours per term, not to exceed (108) hours per term, in clinical sites such as the OR, ER, NICU, and OB units for clinical care and practice. Total hours and clinical times vary depending on clinical site availability and actual experience.

EMS 283 - Paramedic Clinical Practice III

3 Credit(s)

Prerequisite(s):

Current Oregon EMT, AEMT, or EMT-Intermediate license and completion of EMS 272 and EMS 282 with a "C" or better.

Corequisite(s):

EMS 273

Course Description: The clinical experience of this course will focus on patient assessment, treatment, and application of paramedic skills in the ED. Airway management in the OR setting, management of critical patients in the ICU/CCU, and assessment and management of patients with psychiatric illnesses will take place. Specific procedures and issues common to these clinical sites will be reviewed with the students prior to beginning their rotations.

Course Learning Outcomes:

- CLO#1: Safely perform emergency procedures on live patients of various age groups, as outlined in the Clinical Manual.
- CLO#2: Perform a comprehensive patient assessment and formulate and implement a treatment plan for patients with a variety of medical and traumatic emergencies.
- CLO#3: Demonstrate workplace expectations regarding attendance, safety, conduct, and professionalism.
- CLO#4: Perform as an individual with appropriate bedside manner during patient care situations. (ILO: Communication)

ACTI Code and Course Type

Length of Course:

A required state minimum of (90) and a standard RCC delivery of (99) clinical/lab hours per term, not to exceed (108) hours per term, in the clinical setting in the OR, ER, ICU, and the CCU. Hours, sites, and clinical times vary depending on clinical site availability and actual experience.

EMS 284 - Paramedic Clinical Capstone

9 Credit(s)

Prerequisite(s):

Current Oregon EMT, AEMT, or EMT-Intermediate license and completion of EMS 273, and EMS 283 with a "C" or better.

Course Description: This is the field capstone of the paramedic course. Individual student meetings with the clinical coordinator and/or clinical instructors will be conducted throughout the course of the term. Students will ride as a third on an Advanced Life Support medical unit, not as part of the minimum staffing, and complete ALS-level calls as to meet or exceed the requirements outlined in Oregon Administrative Rule.

Course Learning Outcomes:

- CLO#1: Safely perform numerous emergency procedures on live patients of various age groups.
- CLO#2: Perform a comprehensive patient assessment and formulate and implement a treatment plan for patients with a variety of medical and traumatic emergencies. (ILO: Critical Thinking)
- CLO#3: Evaluate leadership in the management of multiple personnel on emergency scenes. (ILO: Communication)
- CLO#4: Evaluate workplace expectations regarding attendance, safety, conduct, and professionalism.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (270) and a standard RCC delivery of (297) of clinical/lab hours per term, not to exceed (324) hours per term, of ambulance internship. Hours and clinical times vary depending on clinical site availability and actual experience.

EMS 299 - Special Studies - Emergency Svcs

Var. (1-8) Credit(s)

Prerequisite(s):

Some level of advanced emergency training or background is suggested (i.e. AEMT, EMT-Intermediate, Paramedic, RN, etc.).

Course Description: This course will focus on patient assessment and treatment, and application of Advanced Life Support skills. Specific course details vary based on content being addressed. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Safely perform numerous emergency procedures on live patients of various age groups.
- CLO#2: Perform a comprehensive patient assessment and formulate and implement a treatment plan for patients with a variety of medical and traumatic emergencies. (ILO: Critical Thinking)
- CLO#3: Demonstrate leadership in the management of multiple personnel on emergency scenes. (ILO: Communication)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term per credit, not to exceed (36) hours per term.

English

ENG 104Z - Introduction to Fiction

4 Credit(s)

Prerequisite(s):

WR 115 or placement into WR 121Z

Course Description: The study of fiction invites us to enter imaginative narratives and confront the challenges of being human. English 104Z provides opportunities for the appreciation of fiction, including deeper awareness of craft and insight into how reading fiction can lead to self-enrichment. Students read a variety of types of fiction, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking.

Course Learning Outcomes:

- CLO#1: Articulate how culture and context shape literary texts and how literature contributes to understandings of ourselves and the world. (ILO: Communication)
- CLO#2: Identify how literary devices and various formal elements contribute meaning to a text. (ILO: Critical Thinking)
- CLO#3: Build interpretations based on relevant evidence. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 105Z - Introduction to Drama

4 Credit(s)

Prerequisite(s):

WR 115 or placement into WR 121Z

Course Description: The study of plays exposes us to texts with the power to shock, inspire, enlighten, and delight; this course in drama can be an empowering and transformative journey toward keener engagement with the world, local community, and your intended path. English 105Z provides opportunities for the appreciation of drama, including deeper awareness of craft and insight into how reading plays can lead to self-enrichment. Students read a variety of types of drama, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking.

Course Learning Outcomes:

CLO#1: Articulate how culture and context shape literary texts and how literature contributes to understandings of ourselves and the world. (ILO: Communication)

CLO#2: Identify how literary devices and various formal elements contribute meaning to a text. (ILO: Critical Thinking)

CLO#3: Build interpretations based on relevant evidence. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 106Z - Introduction to Poetry

4 Credit(s)

Prerequisite(s):

WR 115 or placement into WR 121Z

Course Description: The study of poetry invites us to delve into the biggest questions about life and culture alongside the seemingly smallest issues of words and sounds. English 106Z provides opportunities for the appreciation of poetry, including deeper awareness of craft and insight into how reading poetry can lead to self-enrichment. Students read a variety of types of poetry and poetic forms, from diverse perspectives and eras, and develop their skills in discussion, literary analysis, and critical thinking.

Course Learning Outcomes:

CLO#1: Articulate how culture and context shape literary texts and how literature contributes to understandings of ourselves and the world. (ILO: Communication)

CLO#2: Identify how literary devices and various formal elements contribute meaning to a text. (ILO: Critical Thinking)

CLO#3: Build interpretations based on relevant evidence. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 107 - World Lit Ancient to Classical

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Surveys important works from the literature of early civilizations: Sumerian, Egyptian, Hebrew, Greek, Chinese, Indian, and Roman. The course is designed to foster thoughtful interpretation, analysis, and appreciation of literature. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree (AAOT).

Course Learning Outcomes:

CLO#1: Summarize and explain the influence of significant texts from the time of the Sumerians up to the Romans. (ILO: Communication)

CLO#2: Explain how historical and social contexts influence literary expression.

CLO#3: Explain how race, gender, time, and place shape a given text.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 108 - World Lit Medieval to Renaissance

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Provides a survey of important works of world literature including manuscripts from India's classical age, China's "Middle Period," the rise of Islam, the Middle Ages in Western Literature, the Golden Age of Japanese culture, and the Renaissance in Europe. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree (AAOT).

Course Learning Outcomes:

CLO#1: Summarize and explain the influence of significant texts from the 7th through 15th century. (ILO: Communication)

CLO#2: Explain how historical and social contexts influence literary expression.

CLO#3: Explain how race, gender, time, and place shape a given text.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 109 - World Lit Enlightenment to Modern

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Provides a survey of important works of literature representing the 17th century Ottoman Empire, the Enlightenment in Europe, Romanticism in Europe and America, popular art in pre-modern Japan, 19th century realism, and twentieth century literature in a global context. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree (AAOT).

Course Learning Outcomes:

CLO#1: Summarize and explain the influence of significant texts from the 16th through 21st century. (ILO: Communication)

CLO#2: Explain how historical and social contexts influence literary expression.

CLO#3: Explain how race, gender, time, and place shape a given text.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 199 - Special Studies - English

Var. (1-3) Credit(s)

Prerequisite(s):

Varies by course.

Course Description: The course is offered in a number of formats: workshop, seminar, or independent study. Course is repeatable.

Course Learning Outcomes:

CLO#1: Varies based on course focus. (ILO: Varies based on course focus.)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ENG 201 - Shakespeare I

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces Shakespeare's plays with an emphasis on current theoretical approaches and performance history. The course will cover three to five plays from among Shakespeare's comedies, romances, histories, and tragedies.

Course Learning Outcomes:

CLO#1: Demonstrate familiarity with the plots, themes, and characters in Shakespeare's plays.

CLO#2: Explain how Shakespeare's historical and social context influenced his plays. (ILO: Critical Thinking)

CLO#3: Explain how race, gender, time, and place shape a given text.

CLO#4: Apply current theoretical approaches to the plays (e.g., Feminist theory, New Historicism).

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 202 - Shakespeare II

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces Shakespeare's plays with an emphasis on current theoretical approaches and performance history. The course will cover three to five plays from among Shakespeare's comedies, romances, histories, and tragedies.

Course Learning Outcomes:

CLO#1: Demonstrate familiarity with the plots, themes, and characters in Shakespeare's plays.

CLO#2: Explain how Shakespeare's historical and social context influenced his plays. (ILO: Critical Thinking)

CLO#3: Explain how race, gender, time, and place shape a given text.

CLO#4: Apply current theoretical approaches to the plays (e.g., Feminist theory, New Historicism).

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 204 - English Lit Medieval - Renaissance

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Provides a historical survey of important works from the literature of the British Isles, from the roots of Old English in the fifth century through the Early Modern period. The course is designed to foster thoughtful interpretation, analysis, and appreciation of literature.

Course Learning Outcomes:

CLO#1: Demonstrate familiarity with significant texts of varying length and complexity in a variety of genres.

CLO#2: Explain how historical and social contexts influence literary expression. (ILO: Critical Thinking)

CLO#3: Explain how race, gender, time, and place shape a given text.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 205 - English Lit 18th Cent - Romantic

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Provides a historical survey of important works from the literature of the British Isles from the seventeenth century Restoration period through the Romantic period of the early nineteenth century. The course is designed to foster thoughtful interpretation, analysis and appreciation of literature.

Course Learning Outcomes:

CLO#1: Demonstrate familiarity with significant texts of varying length and complexity in a variety of genres.

CLO#2: Explain how historical and social contexts influence literary expression. (ILO: Critical Thinking)

CLO#3: Explain how race, gender, time, and place shape a given text.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 206 - English Lit Victorian - Modern

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Provides a historical survey of important works from the literature of the British Isles and nations it colonized from the Victorian period through the twentieth century. The course is designed to foster thoughtful interpretation, analysis, and appreciation of literature.

Course Learning Outcomes:

CLO#1: Demonstrate familiarity with significant texts of varying length and complexity in a variety of genres.

CLO#2: Explain how historical and social contexts influence literary expression. (ILO: Critical Thinking)

CLO#3: Explain how race, gender, time, and place shape a given text.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 253 - American Lit - Colonial

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Provides a survey of literary works from the Colonial, Enlightenment, and Romantic periods, and includes such diverse forms as essays, journals, sermons, political documents, poetry and fiction.

Course Learning Outcomes:

CLO#1: Explain the ways in which social, philosophical, and political currents influence literary expression.

CLO#2: Describe similarities and differences in Colonial, Enlightenment, and Romantic thinking regarding wilderness, religion, artistic expression, rights of Native Americans, attitudes toward family, and community morals and customs. (ILO: Communication)

CLO#3: Explain how race, gender, time, and place shape a given text.

CLO#4: Explain changes in the prevailing American philosophies during the time period covered in the course.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 254 - American Lit - 19th Century

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Surveys the period of American literature between the 1830s and the turn of the century, and includes such diverse forms as essays, journals, sermons, political documents, poetry, and fiction. In many of the works, historical events such as slavery and the Civil War provide both background and subject matter for the artistic productions of the authors studied.

Course Learning Outcomes:

CLO#1: Explain the ways in which social, philosophical, and political currents influence literary expression.

CLO#2: Describe the uniquely American elements in a range of texts through focusing on the formation of an American identity, the Civil War, the issue of slavery, emerging feminist literature, and the capitalism of Wall Street. (ILO: Communication)

CLO#3: Explain how race, gender, time, and place shape a given text.

CLO#4: Explain changes in the prevailing American philosophies during the time period covered in the course.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 255 - American Lit - 20th Century

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Covers the period of American literature between the early 1900s and the present. In many of the works, historical events such as World War I, the Great Depression, and

World War II provide both background and subject matter for the artistic productions of the authors studied.

Course Learning Outcomes:

- CLO#1: Explain the ways in which social, philosophical, and political currents influence literary expression.
- CLO#2: Describe the uniquely American elements in American literature through focusing on the two World Wars, the Great Depression, the Civil Rights and Feminist movements, the Cold War, and the legacy of the Vietnam Conflict. (ILO: Communication)
- CLO#3: Explain how race, gender, time, and place shape a given text.
- CLO#4: Explain changes in the prevailing American philosophies during the time period covered in the course.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 257 - African American Literature

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces literature of Americans whose roots are in Africa. Emphasizes the period of post-Civil War through the Harlem Renaissance. Covers the birth of the African American canon, post-war novels, short stories, poems, autobiographies, and plays. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

- CLO#1: Demonstrate familiarity with a variety of African American literary works within different genres, such as folktales, short stories, dramas, poetry, and novels-with emphasis on such literary elements as point of view, characterization, setting, plot, tone, style, theme, and symbolism.
- CLO#2: Explain the way our own experiences, biases, expectations, and attitudes shape our reading of texts. (ILO: Critical Thinking)
- CLO#3: Explain the interplay of race, gender, and culture in literary expression and society.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 260 - Introduction to Women Writers

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces literature by women and women-identified men. Emphasizes the Middle Ages period through the present. Covers "birth" of women's literary canon, treatises, short stories, autobiographies, novels, poems, and plays. Literary magazines may be read to introduce early feminist and womanist literary criticism. Focuses on oral and written texts representing interests, aspirations, and experiences of women. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree (AAOT).

Course Learning Outcomes:

- CLO#1: Demonstrate familiarity with a variety of literary works by women within different genres, such as short stories, dramas, poetry, novels, and essays- with emphasis on such literary elements as point of view, characterization, setting, plot, tone, style, theme, and symbolism.
- CLO#2: Explain the way our own experiences, biases, expectations, and attitudes shape our reading of texts.
- CLO#3: Explain the interplay of race, gender, and culture in literary expression and society. (ILO: Critical Thinking)
- CLO#4: Apply a range of critical approaches to literature, such as Formalist, Psychoanalytical, Marxist, Feminist, Reader-response, Deconstructionist, and New Historicist. Primacy will be given to Feminist and Womanist approaches to a text.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 261 - Literature of Science Fiction

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: ENG261 provides a survey of important works of science fiction by writers from different cultures and time periods. The course is designed to foster thoughtful interpretation, analysis, and appreciation of fiction and science.

Course Learning Outcomes:

- CLO#1: Analyze common writing elements within the science fiction genre, including point of view, plot, setting, characterization, tone, style, theme, and symbolism. (ILO: Communication)
- CLO#2: Understand and be able to explain the scientific elements in works of science fiction by focusing on the science, technology, and implications of such on humanity. (ILO: Communication)
- CLO#3: Understand and be able to explain the ways in which science, technology, governmental systems, gender, race, and culture shape the literature of science fiction. (ILO: Critical Thinking)

Length of Course:

A required State minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 275 - The Bible as Literature

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Studies the composition, stories, and themes of the Bible in order to deepen understanding of its meaning and influence.

Course Learning Outcomes:

- CLO#1: Summarize the stories, characters, and themes of the Bible and explain their ongoing impact on Western arts, culture, and philosophy. (ILO: Communication)
- CLO#2: Explain the historical background of the Bible, its composition, and the formation of the canon.
- CLO#3: Explain the concept of Myth in terms of meaningful narrative, and apply this to the biblical text in its Western historical and literary context.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENG 280 - CWE - English

Var. (1-12) Credit(s)

Prerequisite(s):

Cooperative education is open to all students who have completed at least one-half of the required classes for their program of study, and have the recommendation of the Department cooperative education advisor.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired

in their programs. Together, the Instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Course is repeatable.

Course Learning Outcomes:

CLO#1: Gain college credit for a valid learning experience to fulfill degree or certificate requirements.

CLO#2: Apply classroom theory to real world job experience. (ILO: Critical Thinking)

CLO#3: Learn skills, gain experience, and make contacts which will help in obtaining a job after graduation.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

Engineering

ENGR 111 - Engineering Orientation I

3 Credit(s)

Prerequisite(s):

MTH 95 or higher-level math course, or designated placement

Course Description: Introduces engineering curricula, career paths, ethics, problem solving, communication, and computer programming. The three-term sequence is required for all areas of engineering. Formerly offered as ENGR 101.

Course Learning Outcomes:

CLO#1: Explain the importance of deadlines as an engineering professional.

CLO#2: Participate in several team projects (e.g., Reverse Engineering, Patent Proposal, etc.) (ILO: Communication)

CLO#3: Explain issues of ethics in the engineering profession.

CLO#4: Analyze the interaction of engineering problem solving and design processes.

CLO#5: Demonstrates use of key areas (e.g., ethics, sustainability, cost, safety, etc., and the interaction of these topics) in decision making as an engineering professional.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ENGR 112 - Engineering Orientation II

3 Credit(s)**Prerequisite(s):**

ENGR 111

Course Description: Examines communication and problem-solving skills in engineering. Formerly offered as ENGR 102.

Course Learning Outcomes:

CLO#1: Identify various capabilities of Excel and MATLAB to solve applicable engineering problems.

CLO#2: Apply intermediate and advanced spreadsheet tools, including sorting, formula construction, filtering, charting, conditional functions, charting, and pivot tables.

(ILO: Quantitative Literacy and Reasoning)

CLO#3: Exhibit development of Graphic User Interfaces (GUI) using MATLAB.

CLO#4: Represent an engineering problem using a flowchart and translate a flowchart into a basic computer program.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (33) hours per term.

ENGR 201 - Electrical Fundamentals I**2 Credit(s)****Prerequisite(s):**

MTH 251Z

Corequisite(s):

ENGR 201L

Course Description: Examines electrical theory laws. Includes circuit analysis of DC circuits; natural, step, and sinusoidal responses of circuits; and operational amplifier characteristics and applications.

Course Learning Outcomes:

CLO#1: Apply Ohm's law, Kirchhoff's current and voltage laws.

CLO#2: Apply voltage division and current division appropriately in solving simple circuits.

CLO#3: Apply techniques such as node-voltage, mesh-current, source transformation, Thevenin and Norton equivalent circuits.

CLO#4: Classify voltage, current, power and energy. (ILO: Quantitative Literacy and Reasoning)

Typical Required and Recommended Equipment and Materials: Calculator, pencils, erasers, engineering paper

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

ENGR 201L - Electrical Fundamentals I Lab

1 Credit(s)

Prerequisite(s):

MTH 251Z

Corequisite(s):

ENGR 201

Course Description: Examines electrical theory laws. Includes circuit analysis of DC circuits; natural, step, and sinusoidal responses of circuits; and operational amplifier characteristics and applications.

Course Learning Outcomes:

CLO#1: Assemble DC combination circuits from the elements (e.g., resistors, capacitors, op-amps) present in the laboratory based on circuit diagrams. (ILO: Critical Thinking)

CLO#2: Demonstrate the use of techniques such as node-voltage, mesh-current, source transformation, Thevenin and Norton equivalent circuits.

CLO#3: Measure voltage, current, power and energy and show how they relate with each other.

Typical Required and Recommended Equipment and Materials: Calculator, pencils, erasers, engineering paper

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

ENGR 202 - Electrical Fundamentals II

2 Credit(s)

Prerequisite(s):

ENGR 201, ENGR 201L

Corequisite(s):

ENGR 202L

Course Description: Examines electrical-theory laws. Includes circuit analysis of AC circuits using complex numbers for single- and three-phase power. Students must enroll in lecture and laboratory sections.

Course Learning Outcomes:

- CLO#1: Apply Ohm's law for AC circuits (i.e., use impedance instead of resistance).
- CLO#2: Calculate using impedance, phasors and Bode plots to solve an AC circuit.
- CLO#3: Demonstrate the use of complex number vectors (example: phasors) to interpret measurements and results from simulations of voltage and current in ideal and non-ideal AC circuit elements to calculate the power in single phase and three-phase power. (ILO: Quantitative Literacy & Reasoning)

Typical Required and Recommended Equipment and Materials: Calculator, pencils, erasers, engineering paper

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

ENGR 202L - Electrical Fundamentals II Lab

1 Credit(s)

Prerequisite(s):

ENGR 201, ENGR 201L

Corequisite(s):

ENGR 202

Course Description: Examines electrical-theory laws. Includes circuit analysis of AC circuits using complex numbers for single- and three-phase power. Students must enroll in lecture and laboratory sections.

Course Learning Outcomes:

- CLO#1: Apply complex number vectors (example: phasors) to calculate the power for an ideal AC circuit element given its voltage and current for single- and three-phase power. (ILO: Critical Thinking)
- CLO#2: Apply Ohm's law for AC circuits (i.e., use impedance instead of resistance), Kirchhoff's current and voltage laws in the laboratory setting. and how to use them in analyzing AC circuits.
- CLO#3: Apply the use of techniques such as impedance, phasors and Bode plots in solving an AC circuit.
- CLO#4: Demonstrate the use of complex number vectors (example: phasors) to interpret measurements and results from simulations of voltage and current in ideal and non-ideal AC circuit element to calculate the power in single phase and three-phase power.

Typical Required and Recommended Equipment and Materials: Calculator, pencils, erasers, engineering paper

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

ENGR 211 - Statics**4 Credit(s)****Prerequisite(s):**

MTH 112Z or higher-level math course, or designated placement, and

WR 115 or designated placement

WR 115Q as required

Corequisite(s): PH 211, PH 211L and MTH 251Z

Course Description: Analyzes forces induced in structures and machines by various types of loading.

Course Learning Outcomes:

CLO#1: Draw a complete and correct free body diagram of an object.

CLO#2: Calculate resultant vectors from a system of forces and moments. (ILO: Quantitative Literacy and Reasoning)

CLO#3: Write and solve applicable equations of equilibrium for statically determinate objects.

CLO#4: Apply statics concepts to trusses, frames and machines, and calculation of internal forces.

CLO#5: Determine the centroid and moment of inertia for an arbitrary area.

CLO#6: Use common engineering program-solving methods.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENGR 212 - Dynamics**4 Credit(s)****Prerequisite(s):**

ENGR 211

Course Description: Explores kinematics, Newton's laws of motion, work-energy theorem, and impulse-momentum relationships as applied to engineering systems.

Course Learning Outcomes:

CLO#1: Identify and apply kinematic and dynamic equations for a particle in Cartesian, cylindrical and spherical coordinates.

- CLO#2: Apply methods of work-energy and impulse-momentum to describe the motion of a particle. (ILO: Communication)
- CLO#3: Apply the parallel axis theorem to determine the moments of inertia of a body for specified axes.
- CLO#4: Apply relative motion concepts using translating and rotating reference frames for two-dimensional systems.
- CLO#5: Apply Newton's equations to solve problems involving rigid bodies in plane motion.
- CLO#6: Apply methods of work-energy and impulse-momentum to describe rigid body motion.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ENGR 213 - Strength of Materials

4 Credit(s)

Prerequisite(s):

ENGR 211

Course Description: Presents the concepts of introductory mechanics of materials. Topics addressed are the concept of stress, axial stress and strain, torsion, pure bending, transverse loading, transformations of stress and strain, design of beams and shafts for strength, deflection of beams, and columns.

Course Learning Outcomes:

- CLO#1: Identify, formulate and solve engineering problems.
- CLO#2: Apply understanding of statics, calculus, physics, chemistry, and probability/statistics to analyze and design simple mechanical systems with engineering materials.
- CLO#3: Recognize types of failure modes, material property influence, and use of factors of safety or allowable stresses/strains on design.
- CLO#4: Communicate a design using effective written communication and graphics. (ILO: Communication)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

Environmental Science

ENV 111 - Intro to Environmental Science

3 Credit(s)

Prerequisite(s):

MTH 20 or higher-level math course, or designated placement

Course Description: Introduces the uses of chemical, physical, and biological principles to explain the complexity and diversity found in environmental systems. The course, designed for both environmental science majors and non -majors, will explore a wide range of environmental topics including the conservation of matter and energy, the atmosphere, nutrient cycles, the hydrologic cycle, population dynamics, biodiversity, human impact on the environment, resource and waste management, and the role of economics and politics in sustainability.

Course Learning Outcomes:

- CLO#1: Describes and applies knowledge of basic chemical and cellular properties.
- CLO#2: Describes and applies knowledge of air pollution.
- CLO#3: Describes and applies knowledge of climate change and ozone depletion.
- CLO#4: Describes and applies knowledge of biogeochemical cycles.
- CLO#5: Describes and applies knowledge of population dynamics.
- CLO#6: Describes and applies knowledge of biodiversity.
- CLO#7: Describes and applies knowledge of human impact on the environment.
- CLO#8: Describes and applies knowledge of resource and waste management.
- CLO#9: Describes and applies knowledge of sustainability and the role of economics and politics in sustainability. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Notebook or binder suggested for notes and handouts

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

Emergency Services

ES 105 - Introduction to Emergency Services

4 Credit(s)

Course Description: Explores the organization, funding, and role of emergency services within the community and government; an overview of emergency medical services and fire protection services; legal and professional considerations regarding emergency response; emergency services personnel; history and trends of emergency services; evaluation and planning; disaster response; and training, leadership, and career development within emergency services.

Course Learning Outcomes:

- CLO#1: Outline the history and current structure of emergency services (ES) systems. (ILO: Critical Thinking)
- CLO#2: Classify the basic legislation and regulation of emergency services (ES).
- CLO#3: Outline the types and levels of organizations of emergency services (ES) and the benefit to ES personnel.

- CLO#4: Categorize the education and training requirements of emergency services (ES) personnel.
- CLO#5: Outline and predicts the role of emergency service agencies and personnel during MCI and disaster response and their role in community relations and safety.
- CLO#6: Highlight the role of ES personnel and the role of the agency in worker wellness and safety. Examine Workplace Harassment, & Discrimination. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: None.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

ES 106 - Communications - Emergency Services

3 Credit(s)

Course Description: This course focuses on developing essential communication skills for professionals in Emergency Medical Services, Fire Science, and other public and professional fields. Students will learn industry-specific communication techniques, from active listening and crisis response to professional documentation and interdepartmental collaboration.

Course Learning Outcomes:

- CLO#1: Demonstrate effective verbal, non-verbal, and written communication skills tailored to high-stakes environments such as EMS, Fire Science, and professional workplaces. (ILO: Communication)
- CLO#2: Apply crisis communication techniques, including active listening and de-escalation, to manage high-pressure situations effectively and collaboratively.
- CLO#3: Create clear, accurate, and professional documentation, such as patient care reports, incident summaries, and workplace communications, adhering to industry standards and ethical guidelines.
- CLO#4: Evaluate communication strategies for inclusivity and cultural competency, adapting approaches to meet the needs of diverse audiences and professional contexts.

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ES 107 - Emergency Medical Responder - EMR

4 Credit(s)

Prerequisite(s):

AHA BLS Card, or Instructor approval

Course Description: This course prepares students to provide immediate lifesaving care in emergency situations. EMRs are the first on scene, delivering essential interventions before Emergency medical Services (EMS) arrives. Students will learn patient assessment, CPR, bleeding control, airway management, and emergency response techniques through hands-on

training and real-world scenarios. Designed for first responders, law enforcement, and workplace safety teams, this course meets national EMR standards and serves as a steppingstone for advanced EMS certifications.

Course Learning Outcomes:

- CLO#1: Perform Patient Assessments - Conduct primary and secondary patient assessments to identify medical and traumatic emergencies, ensuring appropriate initial care in a simulated environment. (ILO: Communication)
- CLO#2: Demonstrate Life-Saving Interventions in a simulated environment- Apply CPR, bleeding control, airway management, and shock treatment techniques following current emergency medical guideline.
- CLO#3: Utilize Emergency Equipment - Operate essential EMR tools, including AEDs, airway adjuncts, and immobilization devices, in prehospital settings.
- CLO#4: Communicate and Collaborate Effectively - Relay critical patient information to EMS providers and coordinate with emergency response teams using clear, concise communication.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

ES 131 - Emergency Medical Technician I

6 Credit(s)

Prerequisite(s):

This is a special admission course and requires the completion of an application process before admission. Before acceptance, students must complete all screening requirements outlined in OAR 409-030-0190, additional RCC requirements (AHA BLS certification, RCC placement process), and any other state-issued placement mandates. Prerequisites within the application process include MTH 20 or higher.

Course Description: ES131 is the first half of a two-term course that prepares individuals for National Registry certification and licensure in Oregon as an Emergency Medical Technician. The course will develop a student's ability to recognize and treat the symptoms of illness and injury in the pre-hospital setting through didactic and simulated or clinical opportunities. The lab or clinical opportunities develop students' abilities to identify and treat the symptoms of illness and injury in the classroom and hands-on environments. Includes skills in patient assessment, essential airway management, trauma assessment and management, medication administration, and automated external defibrillators (AED).

Course Learning Outcomes:

- CLO#1: Describe key principles of emergency care.
- CLO#2: Formulate and execute a plan to care for a medical patient within the EMT scope of practice.
- CLO#3: Apply concepts learned in the classroom to the assessment and management of simulated patients in the lab setting. (ILO: Critical Thinking)
- CLO#4: Practice effective teamwork in managing simulated or actual emergency situations.

CLO#5: Outline and implement self-care strategies for persons who intervene in emergency situations. Formulate a plan of self-care.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120), and a standard RCC delivery of (132) lecture/lab hours per term, not to exceed (144) hours per term.

ES 132 - Emergency Medical Technician II

6 Credit(s)

Prerequisite(s):

ES 131 in the prior term.

Course Description: ES132 is the second half of a course that prepares individuals for National Registry certification and licensure in Oregon as an Emergency Medical Technician. The course will develop a student's ability to recognize and treat the symptoms of illness and injury in the pre-hospital and lab setting. The lab develops students' abilities to recognize and treat the symptoms of illness and injury in classroom labs and simulated emergency scenes. Includes skills in patient assessment, basic airway management, trauma assessment and management, medication administration, and the use of automated external defibrillators (AED). Students will also be scheduled for assessment and skills procedures in an emergency department and on an ambulance (minimum 12-hours each).

Course Learning Outcomes:

CLO#1: Demonstrate effective communication, cultural competency, and conflict management and intervention skills for people in crisis.

CLO#2: Formulate and execute a plan to care for a trauma and special populations patient within the EMT scope of practice.

CLO#3: Apply concepts learned in the classroom to the assessment and management of simulated patients in the lab setting. (ILO: Critical Thinking)

CLO#4: Demonstrate effective teamwork in managing simulated emergency scenarios

CLO#5: Demonstrate workplace expectations regarding attendance, safety, conduct, and professionalism.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120), and a standard RCC delivery of (132) lecture/lab hours per term, not to exceed (144) hours per term.

ES 171 - Emergency Vehicle Operations

2 Credit(s)

Prerequisite(s):

A valid Oregon driver's license.

Course Description: Presents the most up-to-date information on ambulance and fire apparatus operations and the techniques used to operate them safely. This course provides the practical, hands-on experience necessary for students to become safe and knowledgeable emergency vehicle operators. This course meets the requirements of National Fire Protection Association 1002: Chapter 4.

Course Learning Outcomes:

- CLO#1: Demonstrates the steps involved in an apparatus inspection.
- CLO#2: Describe the legal responsibilities of an emergency vehicle operator and the physical and natural forces involved in emergency vehicle operation.
- CLO#3: Describe common problems faced by emergency vehicle operators. (ILO: Critical Thinking)
- CLO#4: Successfully navigate the emergency vehicle operations course in an ambulance or fire vehicle in a safe manner.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

ES 199 - Spc Studies - Emergency Services

Var. (1-3) Credit(s)

Prerequisite(s):

Some level of emergency training or background is suggested (i.e. Emergency Medical Responder, EMT, Firefighter, etc.).

Course Description: Develops students' abilities to recognize and treat the symptoms of illness and injury in classroom labs and simulated emergency scenes. Includes skills in patient assessment, basic airway management, trauma assessment and management, medication administration, and the use of automated external defibrillators (AED). Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate key principles of emergency care.
- CLO#2: Apply concepts learned in the classroom to the assessment and management of simulated patients in the lab setting.
- CLO#3: Demonstrate effective teamwork in managing simulated emergency scenarios (ILO: Communication)
- CLO#4: Variable, depending on content.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard RCC delivery of (33) lab hours per credit, not to exceed (36) hours per term.

ES 205 - Crisis Recognition and Care

3 Credit(s)

Course Description: Focuses on the practical application of psychology in everyday situations including crises encountered in a variety of settings related to public safety workers. Presents materials on the communication and interaction with people in various crisis situations, death and death notification, suicide, behavioral emergencies, abuse, and stress. A great deal of time is spent on strategies for the personal health and wellness of the Emergency Services Worker. Techniques on the initial intervention, defusing and assessment, self-care, and referral in crisis are included.

Course Learning Outcomes:

- CLO#1: Describe historical and theoretical concepts of crisis intervention and importance of self-care.
- CLO#2: Demonstrate and outline effective communication strategies, cultural competency, and conflict intervention skills. (ILO: Communication)
- CLO#3: Demonstrate how to provide support, direction and control to persons in crisis, and demonstrate/outline practical approaches to suicide intervention.
- CLO#4: Identify intervention strategies with diverse populations, domestic abuse, child abuse, and elder abuse and mistreatment.
- CLO#5: Describe collective responses by multiple providers of emergency services during catastrophic disasters in communities.
- CLO#6: Identify and describe community resources available to support individuals of crisis.
- CLO#7: Outline and describe the importance of maintaining an attitude that stresses personal effectiveness, self-control, empathy, and safety in responding to crisis.
- CLO#8: Outline and implement self-care strategies for persons who intervene in crisis situations. Formulate a plan of self-care. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

ES 268 - Emergency Service Rescue

3 Credit(s)

Prerequisite(s):

ES 131 or current EMT.

Course Description: Introduces elementary procedures of rescue practices, systems, components, support, and control of rescue operations. Includes techniques and tools of patient extrication and rescue and emphasizes their applications in various emergencies.

Course Learning Outcomes:

- CLO#1: Explain the incident management structures for various rescue situations.
- CLO#2: Demonstrate basic rope rescue techniques, including knots, anchors, and systems.
- CLO#3: Describe rescue procedures for a confined space emergency.
- CLO#4: Explain limitations and requirements during confined space and trench rescue situations.
- CLO#5: Demonstrate vehicle extrication procedures.

CLO#6: Explain safety and procedural elements of water rescue.

CLO#7: Demonstrate safe work practices during rescue. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

ES 280 - CWE - Emergency Services

3 Credit(s)

Prerequisite(s):

ES 132 or FRP 251 and permission of CWE Instructor or Department Chair.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their program. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, students should complete this course within the last two terms of their certificate or degree. This is a variable credit course. See advisor for any questions. Course is repeatable.

Course Learning Outcomes:

CLO#1: Understand and demonstrate the importance of completing forms accurately and meeting deadlines. (ILO: Communication)

CLO#2: Understand and demonstrate the importance of an acceptable work ethic as described in the student's learning objectives. (ILO: Critical Thinking)

CLO#3: Understand and demonstrate good work performance (student's learning objectives).

CLO#4: Understand the importance of following instructions and meeting deadlines.

CLO#5: Understand and demonstrate a professional presence.

CLO#6: Make contacts which will help in obtaining employment.

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (90) and a standard of (99) CWE hours per term, not to exceed (108) hours per term.

ES 295 - Emergency Services Wellness

3 Credit(s)

Course Description: Provides students with the necessary health and wellness foundation needed prior to entering the emergency services fields of firefighting, paramedicine or law enforcement. Students receive an overview of the key topics that promote a life of health and wellness. Students are given the opportunity to assess their current lifestyles and their

relationships to wellness, physical fitness, nutrition, and risk for illness/disease. With appropriate participation and study, students will receive a firm understanding of community health issues, and the relationship of lifestyle to health and longevity so as to plan realistic short- and long-term goals for their health.

Course Learning Outcomes:

CLO#1: Demonstrate an understanding of the health and wellness trends in the fire service and other emergency service professions.

CLO#2: Describe "healthy emergency workers;" exploring the concepts of wellness and disease prevention.

CLO#3: Evaluate one's own current state of general health and wellness, risk, and personal safety in the emergency services professions.

CLO#4: Research and present the effects of psychosomatic and spiritual health on the human body systems. (ILO: Information Literacy)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

French

FR 101 - First Year French I

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces basic skills in French in speaking, writing, reading, and aural comprehension to the Novice Mid level. Special attention is given to developing cultural awareness. The sequence enables students to reach at least Novice High proficiency as defined by the guidelines of the American Council on the Teaching of Foreign Languages (ACTFL). FR101 / FR 102 / FR 103 must be taken in sequence.

Course Learning Outcomes:

CLO#1: Speak clearly about basic life skills topics with those accustomed to dealing with non-native speakers.

CLO#2: Demonstrate culturally appropriate behavior.

CLO#3: Use learned vocabulary words, phrases, and expressions to describe and express important ideas on a range of topics, both orally and in writing. (ILO: Communication)

CLO#4: Comprehend and explain important ideas and some details from simple authentic audio and video sources.

CLO#5: Explain important ideas and basic details in face-to-face interactions when speech is limited and basic.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (44) hours per term.

FR 102 - First Year French II

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

FR 101

Course Description: Introduces basic skills in French in speaking, writing, reading, and aural comprehension to the Novice High level. Special attention is given to developing cultural awareness. The sequence enables students to reach at least Novice High proficiency as defined by the guidelines of the American Council on the Teaching of Foreign Languages (ACTFL). FR 101 / FR102 / FR 103 must be taken in sequence.

Course Learning Outcomes:

- CLO#1: Speak clearly about basic life skills topics with those accustomed to dealing with non-native speakers.
- CLO#2: Demonstrate culturally appropriate behavior.
- CLO#3: Use learned vocabulary words, phrases, and expressions to describe and express important ideas on a range of topics, both orally and in writing. (ILO: Communication)
- CLO#4: Comprehend and explain important ideas and basic details from simple authentic audio and video sources.
- CLO#5: Explain important ideas and some details in face-to-face interactions when speech is limited and basic.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

FR 103 - First Year French III

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

FR 102

Course Description: Introduces basic skills in French in speaking, writing, reading, and aural

comprehension to the Intermediate Low level. Special attention is given to developing cultural awareness. The sequence enables students to reach at least Novice High proficiency as defined by the guidelines of the American Council on the Teaching of Foreign Languages (ACTFL). FR 101 / FR 102 / FR103 must be taken in sequence. Courses are not suitable for heritage speakers.

Course Learning Outcomes:

- CLO#1: Speak clearly about basic life skills topics with those accustomed to dealing with non-native speakers.
- CLO#2: Demonstrate culturally appropriate behavior.
- CLO#3: Use learned vocabulary words, phrases, and expressions to describe and express important ideas on a range of topics, both orally and in writing. (ILO: Communication)
- CLO#4: Comprehend and explain important ideas and basic details from simple authentic audio and video sources.
- CLO#5: Explain important ideas and some details in face-to-face interactions when speech is limited and basic.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

Fire Science

FRP 199 - Special Studies - Fire Science

Var. (1-3) Credit(s)

Prerequisite(s):

Some level of emergency training or background is suggested (i.e. Emergency Medical Responder, EMT, Firefighter, etc.).

Course Description: Includes a variety of workshops focusing on Fire Science. The topics include areas that improve and develop skills and new methods. They also provide training for career advancement and meet the Oregon Department of Public Standards and Training accredited topics when applicable. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Work through incident management structures for various rescue and suppression situations. (ILO: Communication)
- CLO#2: Use skills obtained to prepare for career and promotional exams.
- CLO#3: Variable, depending on content.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term per credit earned.

FRP 211 - Fire Service Hiring Practices

3 Credit(s)

Course Description: Covers methods of preparation for interviews, and tips on appearance, language usage, and interaction. Practice interviews are followed with critique sessions and tips on identifying and eliminating weaknesses.

Course Learning Outcomes:

CLO#1: Demonstrate the ability to able to speak effectively in front of a group. (ILO: Communication)

CLO#2: Prepare and articulate answers to interview questions in high-pressure situations.

CLO#3: Display confidence and authority without appearing over-confident.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

FRP 233 - Firefighter Safety and Survival

3 Credit(s)

Prerequisite(s):

FRP 251 or Instructor approval.

Course Description: Introduces basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services.

Course Learning Outcomes:

CLO#1: Work effectively as an individual and in a team to complete complex tasks in lab scenarios. (ILO: Critical Thinking)

CLO#2: Explain the concept empowering all emergency services personnel to stop unsafe acts.

CLO#3: Apply concepts learned in tool use and function in a hands-on lab setting.

CLO#4: Describe how the National Highway Transportation Administration rules and regulations are implemented in fire agencies to promote safety.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

FRP 242 - Codes and Ordinances Introduction

3 Credit(s)

Course Description: Studies codes used in the fire service that provide students with the knowledge needed to explain how to effectively apply the codes and associate historic fires with the development of the codes used today.

Course Learning Outcomes:

- CLO#1: Describe the purpose of fire codes and be able to determine how they are applied in various occupancy types. (ILO: Critical Thinking; Information Literacy)
- CLO#2: Summarize the differences of various types of codes including building, mechanical, residential, high rise, electrical, housing and wildland interface, and when the various types are applied.
- CLO#3: Describe the legal aspects of code enforcement including the responsibilities and the enforcement authority of the "authority having jurisdiction."
- CLO#4: Use the International Fire Code (IFC) code book, to select the appropriate code sections to specific safety issues.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

FRP 249 - Fire Service Leadership

3 Credit(s)

Course Description: Examines and develops leadership and supervisory skills for mid-level supervisors in the fire service.

Course Learning Outcomes:

- CLO#1: Examine the roles and responsibilities of local government supervisors. (ILO: Critical Thinking)
- CLO#2: Identify characteristics, attitudes, and behaviors of effective supervisors.
- CLO#3: Apply theories of effective supervision in practice.
- CLO#4: Demonstrates problem-solving in a group or committee setting.

Typical Required and Recommended Equipment and Materials: None.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

FRP 251 - Firefighter Essentials I

8 Credit(s)

Prerequisite(s):

This is a special admission course. Completion of a competitive entry process that includes an application, interview, and physical agility test required prior to admission. Additional

requirements include the OSHA respiratory fit test, drug screen, and background check.

Corequisite(s):

FRP 261 or prior completion of an NFPA 1072 Hazardous Materials Awareness course.

Course Description: Introduces basic training, including the use of small tools and equipment, practice in forcible entry, use of breathing apparatus, salvage and overhaul techniques, and hose and ladder skills. Meets Department of Public Safety Standards and Training and National Fire Protection Association standards for NFPA 1001 Firefighter 1. Hands-on experiences will focus on simulated emergencies and experiences in the fire service.

Course Learning Outcomes:

- CLO#1: Complete the donning, doffing, use, and maintenance of firefighting protective clothing. (ILO: Critical Thinking)
- CLO#2: Identify rope types, knots, and rope hardware as it pertains to their use and describe the appropriate care and inspection of ropes.
- CLO#3: Perform a basic building search with a potential for victim rescue.
- CLO#4: Practice the appropriate use, storage, loading techniques, maintenance, and testing of fire hose and associated equipment.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (160) and a standard RCC delivery of (176) lecture/lab hours per term, not to exceed (192) hours per term.

FRP 252 - Firefighter Essentials II

4 Credit(s)

Prerequisite(s):

FRP 251 or approval of Instructor.

Course Description: Covers firefighting skills required to perform proficiently on the fire scene. Meets National Fire Protection Association 1001 Standards for Firefighter II.

Course Learning Outcomes:

- CLO#1: Recognize signs of building collapse and actions to prevent injury. Utilizes information and observations to make assumptions and decisions. (ILO: Critical Thinking)
- CLO#2: Demonstrate low-angle rope rescue techniques. Adapts skills into solution-based actions.
- CLO#3: Demonstrate vehicle extrication techniques. Uses established procedures and innovative solutions to solve problems.
- CLO#4: Demonstrate application of Class B foam to a simulated flammable liquid fire. Applies past and new knowledge and skills to accomplish the fire suppression objective.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

FRP 256 - Fire Behavior and Combustion

2 Credit(s)

Prerequisite(s):

FRP 251 or approval of Instructor, or concurrent enrollment in FRP 251.

Course Description: Assists students in gaining an understanding of the theories and fundamentals of how and why fires start and spread, as well as how they are controlled. Students will develop and enhance their knowledge of combustion reactions in solids, liquids, and gasses. Students will demonstrate an understanding of English and System International (SI) measurements, the physical and chemical properties of combustion, terminology associated with fire and combustion, and demonstrate an applied knowledge of fire suppression and fire dynamics.

Course Learning Outcomes:

- CLO#1: Work effectively as an individual and in a team to research current Underwriters Laboratory studies and documents to evaluate current data concerning fire behavior and suppression techniques. (ILO: Critical Thinking)
- CLO#2: Explain the importance of measurement in understanding fire behavior.
- CLO#3: Name and explain the modes of heat transfer and how they impact fire behavior and combustion.
- CLO#4: Describe the two main types of smoke aerosols and explain why they are important in fires.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

FRP 258 - Pumper Operator

3 Credit(s)

Prerequisite(s):

ES 171 or approval of Instructor.

Course Description: Covers hydraulic and fluid principles, friction loss, basic fire ground hydraulics, basic fire pump construction and operating principles. This course meets the National Fire Protection Association Standard #1002 requirements for NFPA Apparatus Equipped with a Fire Pump (Pumper).

Course Learning Outcomes:

- CLO#1: Operate a fire pump and use it in a safe and efficient manner. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Identify the basic types of fire apparatus and their differences and uses.

CLO#3: Define the responsibilities of the operator as it pertains to on-scene apparatus positioning based on type and role of apparatus.

CLO#4: Recognize how the physical characteristics of water are used to produce fire streams, move water, and meet fire scene objectives.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

FRP 259 - Water Supply Operations

3 Credit(s)

Prerequisite(s):

FRP 258, or DPSST Certificate for NFPA Fire Apparatus Equipped with a Fire Pump

Course Description: This course covers mobile water supply operations, drafting, relay and tandem pumping, apparatus service testing, and advanced troubleshooting and maintenance. This course meets the National Fire Protection Association #1002 Mobile Water Supply Apparatus.

Course Learning Outcomes:

CLO#1: Explain the apparatus inspection and maintenance procedures used to ensure equipment readiness. (ILO: Critical Thinking)

CLO#2: Practice the differences between the various methods of calculating hydraulics and where their uses would be appropriate.

CLO#3: Describe the purpose of a water shuttle dump site and how to establish one.

CLO#4: Identify basic trouble shooting approaches to avoid common pit falls and equipment failures.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

FRP 261 - HazMat Awareness and Operations

2 Credit(s)

Course Description: Covers recognizing the presence of hazardous materials/weapons of mass destruction and initial actions for the first responder. Meets NFPA 470 requirements for Hazardous Materials Awareness and Operations.

Course Learning Outcomes:

CLO#1: Conduct small group activities relating to hazardous materials incidents.

CLO#2: Illustrate the best method of dealing with a hazardous materials incident based on the information collected.

CLO#3: Evaluate the information presented and utilize the data to mitigate an incident in the safest, most effective way.

CLO#4: Demonstrate the ability to collect information from resources, and to disseminate the information accurately, without altering or deleting important facts. (ILO: Information Literacy)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

FRP 262 - Fundamentals of Fire Prevention

3 Credit(s)

Course Description: Presents an overview of fire prevention concepts including public education, public relations, fire inspections, fire investigation, and other topics commonly included in fire and life safety divisions with a correlation to historic and current events.

Course Learning Outcomes:

CLO#1: Identify and categorize common fire hazards. (ILO: Information Literacy)

CLO#2: Associate the impact significant fires have had on the fire service, and how they have improved fire prevention.

CLO#3: Explain how fire codes are applied to fire prevention activities.

CLO#4: Explain the role of public education as it relates to fire prevention.

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

FRP 264 - Fire Service Building Construction

3 Credit(s)

Course Description: Covers building classification and structural features, types of material used in buildings, flame spread and fire retardants, and representative fire loads. Meets Oregon Department of Public Safety Standards and Training #39-22 Building Construction and #42-01 Building Construction for Fire Protection.

Course Learning Outcomes:

CLO#1: Describe the importance of building construction knowledge and terms used to communicate building construction types and features, firefighter limitations and safety concerns with various types of construction. (ILO: Quantitative Literacy and Reasoning)

CLO#2: Describe external forces that act upon a building and what affect these have in both fire and non-fire conditions including: Gravity, wind, concentrated forces, building load types, and the imposition of the various loads.

CLO#3: Identify and understand the structural elements of beams, columns, walls, and arches, and how they contribute to structural stability.

CLO#4: Understand ordinary construction including associated terms and problems. Relevant topics of ordinary construction include collapse signs and causes, wall forces, connections, floors, roofs, void spaces, fire doors, and risk analysis.

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

FRP 272 - Fixed Systems and Extinguishers

3 Credit(s)

Course Description: Studies portable and built-in extinguishing equipment including fire alarm and detection systems, sprinkler systems, and stand-pipe protection systems for special hazards. Meets Oregon Department of Public Safety Standards and Training #25-05 Fire Detection, Alarm, Extinguishing Systems, and #41-04 Fire Detection and Protection Systems.

Course Learning Outcomes:

CLO#1: Describe sprinkler principles, statistics, types, and classification by occupancy. (ILO: Critical Thinking)

CLO#2: Explain the effects of sprinkler systems supply sources and the measures taken to support the system.

CLO#3: Identify a wet sprinkler system, its operating principles, alarms and controls, the piping by occupancy, valves, and sprinkler location options.

CLO#4: Distinguish the classes of building standpipe and hose systems, the factors that determine their size and number, and the testing and maintenance of these systems.

Typical Required and Recommended Equipment and Materials: None Required

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

FRP 273 - Fire Investigation

3 Credit(s)

Course Description: Provides an overview of basic fire investigation techniques, chemistry, laws, motives for arson, and interviewing witnesses and suspects.

Course Learning Outcomes:

- CLO#1: Identify key techniques of fire scene preservation and effective methods of crime scene documentation. (ILO: Critical Thinking)
- CLO#2: Accurately and legally search for, identify, collect, and store physical evidence.
- CLO#3: Obtain information through interviews and interrogations in order to identify and arrest suspects.
- CLO#4: Describe the complex nature of death investigations.
- CLO#5: Utilize appropriate technology including computer applications for conducting investigations and organizing and analyzing information.

Typical Required and Recommended Equipment and Materials: None Required.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

FRP 274 - Firefighting Strategy and Tactics

3 Credit(s)

Prerequisite(s):

FRP 251

Course Description: Studies fire ground tactics, procedures for developing pre-fire plans, and methods for effectively coping with fire emergency problems. Meets Oregon Department of Public Safety Standards and Training #35-14 Basic Strategy and Tactics.

Course Learning Outcomes:

- CLO#1: Work effectively as a team member by contributing to group problem-solving and decision-making through collective input and consensus. (ILO: Critical Thinking)
- CLO#2: Collect and evaluate printed or verbal information about a given incident.
- CLO#3: Organize and maintain information by completion of records and reports regarding incidents and situations used in simulations.
- CLO#4: Collect information from resources, and to disseminate the information accurately, without altering or deleting important facts.
- CLO#5: Follow instructions as a subordinate and provide status updates as a supervisor in fire ground operations.
- CLO#6: Demonstrate proper verbal and radio communications. Student is placed in stressful scenario situation, requiring clear, concise communication. Student demonstrates ability to remain calm and deliver messages clearly.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

FRP 285 - Fire Instructor I

3 Credit(s)

Course Description: Studies various instructional techniques and methodologies for teaching diverse learners and addresses critical issues of safety, and the legal aspects of training. Meets Oregon Department of Public Safety Standards and Training, and National Fire Protection Association #1041 standards for Fire and Emergency Services Instructor I.

Course Learning Outcomes:

- CLO#1: Review and adapt prepared instructional materials. Development and use of audio/visual aids and instructional techniques that are built into lesson plans.
- CLO#2: Describe laws affecting records and disclosure of training information. Demonstrates responsible behavior regarding the legal aspects of instructional duties. (ILO: Communication)
- CLO#3: Adjust to differences in learning styles, abilities, behaviors. Communicate with understanding, compassion and acceptance - allowing for, and adjusting to the diverse needs of students.
- CLO#4: Deliver instructional sessions utilizing prepared course materials.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours term, not to exceed (36) hours per term.

Geology

G 100 - Fundamentals of Geology

3 Credit(s)

Course Description: Studies the earth's physical processes and properties with an emphasis on understanding the scientific theories behind the geological principles.

Course Learning Outcomes:

- CLO#1: Explain processes changing the earth's surface over time. (ILO: Communication)
- CLO#2: Discuss the theory of plate tectonics in relation to the nature and origins of earthquakes.
- CLO#3: List and describe subdivisions of the geologic time scale.
- CLO#4: Determine physical properties of rocks and how to use them to identify different rocks.
- CLO#5: Describe the geologic features characteristic to glacial activity.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

G 101 - Intro to Geology I

3 Credit(s)

Corequisite(s):

G 101L

Course Description: Studies the earth's internal structure and composition as well as the mechanics of plate tectonics. Covers the fundamentals of geology from the beginning of the solar system to the formation and interaction of continents and the ocean floor, igneous rocks including magmatic and volcanic processes, minerals, and the fundamentals of earthquake activity.

Course Learning Outcomes:

- CLO#1: Analyze rocks and minerals, working in teams. (ILO: Communication)
- CLO#2: Interpret maps, charts, and other written information.
- CLO#3: Using identification charts, books, and lab materials properly identify and classify mineral samples and igneous rocks.
- CLO#4: Formulate math and logic problems on earthquake and plate tectonics on exams.
- CLO#5: Describe the physical characteristics of rocks and how to use them to identify different types of rocks.

Typical Required and Recommended Equipment and Materials: calculator, hand lens, pencils and erasers

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

G 101L - Intro to Geology I Lab

1 Credit(s)

Corequisite(s):

G 101

Course Description: Studies the earth's internal structure and composition as well as the mechanics of plate tectonics. Covers the fundamentals of geology from the beginning of the solar system to the formation and interaction of continents and the ocean floor, igneous rocks including magmatic and volcanic processes, minerals, and the fundamentals of earthquake activity.

Course Learning Outcomes:

- CLO#1: Analyze rocks and minerals, working in teams. (ILO: Communication)
- CLO#2: Interpret maps, charts, and other written information.
- CLO#3: Using identification charts, books, and lab materials properly identify and classify mineral samples and igneous rocks.
- CLO#4: Formulate math and logic problems on earthquake and plate tectonics in lab.
- CLO#5: Describe the physical characteristics of rocks and how to use them to identify different types of rocks.

Typical Required and Recommended Equipment and Materials: calculator, hand lens, pencils and erasers

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

G 102 - Intro to Geology II Surface Process

3 Credit(s)

Corequisite(s):

G 102L

Recommended Prerequisite(s):

G 101, G 101L

Course Description: Studies the surface processes of geology and the interaction of the internal mechanisms of the earth's dynamics. Covers the fundamentals of sedimentary and metamorphic rocks, their formation, and the surface processes that affect them. Includes the atmosphere, groundwater, running water, oceans, shoreline erosion, fossils, streams, ground water, and glaciers.

Course Learning Outcomes:

- CLO#1: Explain, diagram, draw, evaluate, analyze, predict and describe the sedimentary processes and rocks. (ILO: Critical Thinking)
- CLO#2: Explain, diagram, draw, evaluate, analyze, predict and describe the metamorphic processes and rocks.
- CLO#3: Explain, diagram, draw, evaluate, analyze, predict and describe the weathering of rock at the surface of the earth.
- CLO#4: Explain, diagram, draw, evaluate, analyze, predict and describe the erosion.
- CLO#5: Explain, diagram, draw, evaluate, analyze, predict and describe the streams and stream dynamics.

Typical Required and Recommended Equipment and Materials: calculator, hand lens, pencils and erasers

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

G 102L - Intro to Geology II Lab

1 Credit(s)

Corequisite(s):

G 102

Recommended Prerequisite(s):

G 101, G 101L

Course Description: Studies the surface processes of geology and the interaction of the internal mechanisms of the earth's dynamics. Covers the fundamentals of sedimentary and metamorphic rocks, their formation, and the surface processes that affect them. Includes the atmosphere, groundwater, running water, oceans, shoreline erosion, fossils, streams, ground water, and glaciers.

Course Learning Outcomes:

- CLO#1: Works with teams in lab to analyze rocks and minerals. (ILO: Communication)
- CLO#2: Explain, diagram, draw, evaluate, analyze, predict, describe or apply knowledge of sedimentary processes and rocks.
- CLO#3: Explain, diagram, draw, evaluate, analyze, predict, describe or apply knowledge of metamorphic processes and rocks.
- CLO#4: Explain, diagram, draw, evaluate, analyze, predict, describe or apply knowledge of weathering of rock at the surface of the earth.
- CLO#5: Explain, diagram, draw, evaluate, analyze, predict, describe or apply knowledge of erosion.
- CLO#6: Explain, diagram, draw, evaluate, analyze, predict, describe or apply knowledge of streams and stream dynamics.

Typical Required and Recommended Equipment and Materials: calculator, hand lens, pencils and erasers

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

G 103 - Intro to Geology III Historical

3 Credit(s)

Corequisite(s):

G 103L

Recommended Prerequisite(s):

G 101, G 101L and / or G 102, G 102L

Course Description: Covers the history of the evolution of the earth through the ages. Studies the formation of the universe, the solar system, and the beginning of the earth. Looks at the fossil record, glaciers, arid lands, the earth's resources, depositional environments, and the earth's history. Special emphasis is given to the geology of southern Oregon and various provinces of

the in the Pacific Northwest when possible.

Course Learning Outcomes:

- CLO#1: Explain, diagram, draw, evaluate, analyze, predict, describe or apply knowledge of the different types of glaciers as well as their characteristics and activities. (ILO: Communication)
- CLO#2: Explain, diagram, draw, evaluate, analyze, predict, describe or apply knowledge of economic importance/impact of geologic activity.
- CLO#3: Explain, diagram, draw, evaluate, analyze, predict, describe or apply knowledge of geologic evolution and its relationship to paleontology and geologic time.
- CLO#4: Explain, diagram, draw, evaluate, analyze, predict, describe or apply knowledge of geologic history of North America.

Typical Required and Recommended Equipment and Materials: calculator, hand lens, pencils and erasers

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

G 103L - Intro to Geology III Historical Lab

1 Credit(s)

Corequisite(s):

G 103

Recommended Prerequisite(s):

G 101, G 101L and / or G 102, G 102L

Course Description: Covers the history of the evolution of the earth through the ages. Studies the formation of the universe, the solar system, and the beginning of the earth. Looks at the fossil record, glaciers, arid lands, the earth's resources, depositional environments, and the earth's history. Special emphasis is given to the geology of southern Oregon and various provinces of the Pacific Northwest when possible.

Course Learning Outcomes:

- CLO#1: Works with teams in lab to analyze rocks and minerals. (ILO: Communication)
- CLO#2: Explain, diagram, draw, evaluate, analyze, predict, describe or apply knowledge of the different types of glaciers as well as their characteristics and activities.
- CLO#3: Explain, diagram, draw, evaluate, analyze, predict, describe or apply knowledge of economic importance/impact of geologic activity.
- CLO#4: Explain, diagram, draw, evaluate, analyze, predict, describe or apply knowledge of geologic evolution and its relationship to paleontology and geologic time.
- CLO#5: Explain, diagram, draw, evaluate, analyze, predict, describe or apply knowledge of geologic history of North America.

Typical Required and Recommended Equipment and Materials: calculator, hand lens, pencils

and erasers

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

Geography

GEOG 100 - Introduction to Physical Geography

3 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Builds an understanding of physical geography by examining the Earth's dimensions, energy balance, atmospheric characteristics (air temperature, moisture, precipitation, circulation, weather patterns, climate types and climate change), internal structure (including plate tectonics, earthquakes and volcanoes), weathering and mass wasting processes, fresh water and hydrology, landforms made by various agents (running water, wind, waves, glaciers), global soils, and biogeographic processes.

Course Learning Outcomes:

CLO#1: Define and apply the concepts of physical geography in understanding current world events related to processes in the physical environment.

CLO#2: Describe geographical concepts, with an emphasis on physical geography. Describe the major concepts and interactions related to the major physical environments: climates, landforms, and ecosystems.

CLO#3: Identify and explain possible human impacts on Earth's physical systems and resulting consequences thereof. (ILO: Critical Thinking)

CLO#4: Identify sustainable solutions to human-caused effects on Earth's physical systems.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

GEOG 110 - Introduction to Human Geography

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Surveys world patterns of culture, population, migration, language, religion, identity, and political systems. Examines the geographies of human development, including globalization, urban areas, agriculture, industry and services and includes a focus on environmental sustainability. Emphasizes connections through the five themes of human geography: Movement, Region, Human-Environment Interaction, Location, and Place. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

- CLO#1: Define and apply the concepts of human and cultural geography to current world events, including globalization, geopolitics, and developing nations.
- CLO#2: Explain geographical concepts, with an emphasis on human/environment interaction and physical geography.
- CLO#3: Evaluate diverse human values and points of view, including the roles of language, religion, political/economic systems, and geographies of identity in human development. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#4: Identify sustainable practices related to human development, including and recognizing the roles of industry and agriculture in sustainable development.
- CLO#5: Locate and analyze geographic data for world cultures and regions, including data on world human population growth and comparisons of rural and urban areas.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

GEOG 120 - World Regional Geography

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Examines the eleven regions of the world and their interconnections. Perspectives from physical, political, historical, economic, and cultural geography are used to characterize the individual regions and the ways in which they are knit together into a spatial framework.

Course Learning Outcomes:

- CLO#1: Explain geographical concepts with an emphasis on human/environment interaction and geopolitics.
- CLO#2: Evaluate diverse human values and points of view.
- CLO#3: Identify sustainable practices related to human development.
- CLO#4: Locate and analyze geographic data for world cultures and regions. (ILO: Information Literacy)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

General Science

GS 104 - Physical Science - Physics

3 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or higher-level math or designated placement

Corequisite(s):

GS 104L

Recommended Prerequisite(s):

MTH 65

Course Description: This is the first of the general science series and is a prerequisite to many other science courses. Studies the fundamental concepts and principles of physics. Includes topics in scientific reasoning and measurement, forces, motion, energy, gravity, mechanics, heat, electricity, sound, and light. Students must enroll in lecture and laboratory sections.

Course Learning Outcomes:

- CLO#1: Apply algebra, dimensional analysis, and logical reasoning to solve physical science problems. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Apply concepts of force and motion.
- CLO#3: Apply concepts of momentum and energy.
- CLO#4: Apply concepts of electricity and magnetism.
- CLO#5: Apply concepts of waves and optics.

Typical Required and Recommended Equipment and Materials: Scientific calculator, Ruler, Protractor, Mechanical pencil, eraser engineering paper

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

GS 104L - Physical Science - Physics Lab

1 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or higher-level math, or designated placement

Corequisite(s):

GS 104

Recommended Prerequisite(s):

MTH 65

Course Description: This is the first of the general science series and is a prerequisite to many other science courses. Studies the fundamental concepts and principles of physics. Includes topics in scientific reasoning and measurement, forces, motion, energy, gravity, mechanics, heat, electricity, sound, and light. Students must enroll in lecture and laboratory sections.

Course Learning Outcomes:

- CLO#1: Apply algebra, dimensional analysis, and logical reasoning to solve physical science problems. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Demonstrate concepts of force and motion in a laboratory setting.
- CLO#3: Demonstrate concepts of momentum and energy in a laboratory setting.
- CLO#4: Demonstrate concepts of electricity and magnetism in a laboratory setting.
- CLO#5: Demonstrate concepts of waves and optics in a laboratory setting.
- CLO#6: Interpret laboratory data to draw conclusions about general physics experiments.

Typical Required and Recommended Equipment and Materials: Scientific calculator, Ruler, Protractor, Mechanical pencil, eraser, engineering paper

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

GS 107 - Physical Science - Astronomy

3 Credit(s)

Prerequisite(s):

GS 104 and GS 104L or

MTH 111Z and MTH 112Z or

MTH 251Z

Corequisite(s):

GS 107L

Course Description: Discusses topics of astronomy including comets, moons, planets, stars, the sun, star galaxies, black holes, pulsars, and quasars. Students must enroll in lecture and laboratory sections.

Course Learning Outcomes:

- CLO#1: Apply algebra, dimensional analysis and logical reasoning to solve astronomy problems.
- CLO#2: Apply concepts of force to explain how gravity and heat keep a star stable in hydrostatic equilibrium.
- CLO#3: Categorize stars into the appropriate class (e.g., black hole vs a supernova).
- CLO#4: Calculate the expected lifetime of a star. (ILO: Quantitative Literacy & Reasoning)
- CLO#5: Compare the rocky planets to the gas planets.

Typical Required and Recommended Equipment and Materials: Scientific calculator, Ruler, Protractor, Mechanical pencil, eraser, engineering paper

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

GS 107L - Physical Science - Astronomy Lab

1 Credit(s)

Prerequisite(s):

GS 104 and GS 104L or

MTH 111Z and MTH 112Z or

MTH 251Z

Corequisite(s):

GS 107

Course Description: Discusses topics of astronomy including comets, moons, planets, stars, the sun, star galaxies, black holes, pulsars, and quasars. Students must enroll in lecture and laboratory sections.

Course Learning Outcomes:

- CLO#1: Calculate the speed a star is moving away from us using hydrogen spectral lines.
(ILO: Quantitative Literacy and Reasoning)
- CLO#2: Classify types of exoplanets using data from various space agencies (e.g., NASA, ESA).
- CLO#3: Compare wavelength range and sensitivity of current major telescopes.

Typical Required and Recommended Equipment and Materials: Scientific calculator, Ruler, Protractor, Mechanical pencil, eraser, engineering paper

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

GS 108 - Physical Science - Oceanography

3 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or higher-level math, or designated placement.

Corequisite(s):

GS 108L

Course Description: Presents a basic understanding of oceanic processes, and a comprehensive overview of the marine sciences. Designed to introduce the history of marine science, surveying ocean physics, chemistry, and biology. Presenting topics including: plate tectonics, surface current patterns, wave dynamics, tides, geologic features of the sea floor, coastlines, the life and ecology of the ocean world (marine animals and communities), marine resources, and environmental concerns. Having successfully completed this course, the student should be able to comprehend and identify the interrelationships and workings of the physical, chemical, botanical, and zoological worlds of the water.

Course Learning Outcomes:

CLO#1: Describe and explain the historical context of oceanography.

CLO#2: Explain the geological features of oceans, coasts, and beaches using the theory of plate tectonics.

CLO#3: Explain the properties of seawater using physical and chemical principles.

CLO#4: Explain the dynamics of atmospheric and oceanic circulation and the relationship between them. (ILO: Critical Thinking)

CLO#5: Explain the dynamics of ocean waves, and tides.

CLO#6: Explain the biology and ecology of ocean life.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

GS 108L - Physical Science - Oceanography Lab

1 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or higher-level math, or designated placement

Corequisite(s):

GS 108

Course Description: Presents a basic understanding of oceanic processes, and a comprehensive overview of the marine sciences. Designed to introduce the history of marine science, surveying ocean physics, chemistry, and biology. Presenting topics including: plate tectonics, surface current patterns, wave dynamics, tides, geologic features of the sea floor, coastlines, the life and ecology of the ocean world (marine animals and communities), marine

resources, and environmental concerns. Having successfully completed this course, the student should be able to comprehend and identify the interrelationships and workings of the physical, chemical, botanical, and zoological worlds of the water. Coastal day trip included: students should expect to pay for food, transportation, and any entrance fees.

Course Learning Outcomes:

- CLO#1: Identify the organs of a shark via dissection.
- CLO#2: Determine the geological features a model ocean.
- CLO#3: Determine the properties of seawater using physical and chemical principles (e.g., pH, density) in a laboratory setting. (ILO: Quantitative Literacy and Reasoning)
- CLO#4: Analyze and map selected sediments from around the world.
- CLO#5: Apply knowledge of oceanic and atmospheric currents by mapping and analyzing satellite and buoy data.
- CLO#6: Model and interpret wave action in a laboratory setting.
- CLO#7: Investigate the environmental impacts of invasive species and aquaculture practices.
- CLO#8: Apply lecture and lab topics in a real world setting by visiting a local coastal region.

Typical Required and Recommended Equipment and Materials: Gloves and safety goggles

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

GS 110 - Intro to Renewable Energy

3 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or higher-level math, or designated placement.

Corequisite(s):

GS 110L

Recommended Prerequisite(s):

MTH 65

Course Description: Overview of the source of energy in nature. Emphasis on how energy is coupled with specific principles and processes related to physics and chemistry. Topics include heat, radioactivity, light sound, and electricity.

Course Learning Outcomes:

- CLO#1: Design and perform experiments and then interpret results, and communicate findings in a standard form. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Gather and review evidence to support model building in a laboratory setting.
- CLO#3: Experimentally determine the electrical energy output of several types of solar cells and analyze the results.

CLO#4: Experimentally determine the energy required for heating applications (e.g., hot water heater) and compare to that of charging personal electronics.

CLO#5: Using a scaled down version of geothermal heating, determine the parameters, data and analysis of creating electricity using a Peltier module (thermoelectric module) with the temperature difference.

Typical Required and Recommended Equipment and Materials: Scientific calculator, ruler, protractor, mechanical pencil, and eraser engineering paper.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

GS 110L - Intro to Renewable Energy Lab

1 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or higher-level math, or designated placement.

Corequisite(s):

GS 110

Recommended Prerequisite(s):

MTH 65

Course Description: Overview of the source of energy in nature. Emphasis on how energy is coupled with specific principles and processes related to physics and chemistry. Topics include heat, radioactivity, light sound, and electricity. Students will perform experiments with variables affecting power output from model wind turbines, solar panels, and geothermal heat engines by engaging in projects such as building a wind farm or a solar charger.

Course Learning Outcomes:

CLO#1: Design and perform experiments and then interpret results, and communicate findings in a standard form. (ILO: Quantitative Literacy and Reasoning)

CLO#2: Gather and review evidence to support model building in a laboratory setting.

CLO#3: Experimentally determine the electrical energy output of several types of solar cells and analyze the results.

CLO#4: Experimentally determine the energy required for heating applications (e.g., hot water heater) and compare to that of charging personal electronics.

CLO#5: Using a scaled down version of geothermal heating, determine the parameters, data and analysis of creating electricity using a Peltier module (thermoelectric module) with the temperature difference.

Typical Required and Recommended Equipment and Materials: Scientific calculator, ruler, protractor, mechanical pencil, and eraser engineering paper.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

GS 111 - Intro to Forensic Science

3 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or higher-level math, or designated placement

Corequisite(s):

GS 111L

Recommended Prerequisite(s):

MTH 65

Course Description: This is the lecture portion of a one-term introduction to criminalistic theories and practices, including basic techniques of investigation. Topics include fingerprints, blood typing, photography and casting techniques. This fulfills a laboratory science requirement when taken with GS111L.

Course Learning Outcomes:

- CLO#1: Describe proper, offense-specific crime scene processing and evidence collection and custody practices based on types of evidence.
- CLO#2: Describe appropriate analytic techniques and tests for various types and classes of physical evidence.
- CLO#3: Apply the scientific method to the analysis of evidence and crime scene reconstruction.
- CLO#4: Assess the strengths and weaknesses, usefulness and limitations of specific forensic science applications and methods. (ILO: Quantitative Literacy and Reasoning)
- CLO#5: Analyze the development, scope, and limitations of fundamental scientific concepts, models, theories, and methods as they apply to the investigation of crime.

Typical Required and Recommended Equipment and Materials: Scientific calculator, ruler, protractor, mechanical pencil, eraser engineering paper.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

GS 111L - Intro to Forensic Science Lab

1 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or higher-level math, or designated placement.

Corequisite(s):

GS 111

Recommended Prerequisite(s):

MTH 65

Course Description: This is the laboratory portion of a one-term introduction to criminalistic theories and practices, including basic techniques of investigation. Topics include fingerprints, blood typing, photography and casting techniques. This fulfills a laboratory science requirement when taken with GS111.

Course Learning Outcomes:

- CLO#1: Apply basic chemical concepts used in forensics such as density, measurement, chromatography, and spectrophotometry to identify a substance or compare a known to an unknown forensic sample.
- CLO#2: Use scientific thought and inquiry to critically analyze data in published forensic case studies, journal or periodical articles or collected in lab related to the CSI effect or other forensic concepts.
- CLO#3: Using Locard's exchange principle, services of a typical crime lab, collection of evidence techniques, elements, compounds, states of matter, organic and inorganic analysis techniques, blood typing and characterization, DNA structure and analysis.
- CLO#4: Demonstrate chemical and biological lab techniques used in forensics for density, measurement, chromatography, organic analysis, inorganic analysis, serology, DNA and arson evidence such as glass, soil, organic and inorganic substances, fuels, blood and DNA evidence. (ILO: Critical Thinking)
- CLO#5: Engage with others and work safely in a lab, use proper lab techniques.
- CLO#6: Use the vocabulary of chemistry to explain, discuss and solve problems about the history of forensic science, systems of measurement, physical properties of evidence, organic analysis, inorganic analysis, serology, arson and explosives.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

GS 151 - Indigenous Science

3 Credit(s)

Prerequisite(s):

WR 121Z and MTH 65

Course Description: This course explores the intersection of indigenous knowledge systems and practices, environmental stewardship, and modern science practices. Students will examine Indigenous scientific knowledge and practices and compare to those used in Western science both qualitatively and quantitatively.

Course Learning Outcomes:

- CLO#1: Describe the foundational concepts of Indigenous traditional scientific practices (biological, chemical, ecological, engineering, physical, etc.).
- CLO#2: Qualitatively and quantitatively analyze the effectiveness of Indigenous traditional science as measured with Western science methods. (ILO: Critical Thinking)
- CLO#3: Analyze Indigenous perspectives on environmental issues and their implications for modern Western science.
- CLO#4: Assess the impacts of colonialism, globalization, and climate change on Indigenous communities and their environments.
- CLO#5: Apply Indigenous principles of sustainability and stewardship to the analysis of current environmental challenges.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

GS 170 - Regional Field Studies

3 Credit(s)

Prerequisite(s):

Will vary depending on the specific offering.

Corequisite(s):

GS 170L

Course Description: Field studies involving hiking, camping, traveling by car, and possible overnight stays. Offers introductory field studies of specific Pacific Northwest regions. Involves both classroom preparation and site visits to familiarize students with the geology and surrounding landforms of the region being studied. May not be offered every year. Please check with the Department Chair.

Course Learning Outcomes:

- CLO#1: Individual course outcomes and ILOs will be developed for individual field outings.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

GS 170L - Regional Field Studies Lab

1 Credit(s)

Prerequisite(s):

Will vary depending on the specific offering.

Corequisite(s):

GS 170

Course Description: Field studies involving hiking, camping, traveling by car, and possible overnight stays. Offers introductory field studies of specific Pacific Northwest regions. Involves both classroom preparation and site visits to familiarize students with the geology and surrounding landforms of the region being studied. May not be offered every year. Please check with the Department Chair.

Course Learning Outcomes:

CLO#1: Individual course outcomes and ILOs will be developed for individual field outings.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

GS 199 - Special Studies - General Science

Var. (1-3) Credit(s)

Prerequisite(s):

May vary depending on subject offerings.

Course Description: Offers individual and small group studies in a variety of science topics. May include ecological, biological, geological, and/or climatological emphasis. Course is repeatable.

Course Learning Outcomes:

CLO#1: Individual course outcomes and ILOs will be developed at the time the proposed class is designed. Typical assessments will include but are not limited to homework exercises, discussion, quizzes, examinations, course discussions, and research papers.

Typical Required and Recommended Equipment and Materials: Varies with the curriculum.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

GS 199L - Special Studies - General Sci Lab

Var. (1-3) Credit(s)

Prerequisite(s):

Will vary depending on subject offerings.

Course Description: Offers individual and small group studies in a variety of science topics.
Course is repeatable.

Course Learning Outcomes:
Variable.

Typical Required and Recommended Equipment and Materials: Varies with the curriculum.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:
PER CREDIT: A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

GS 280 - CWE - General Science

Var. (1-12) Credit(s)

Prerequisite(s):

Prior arrangements with CWE Instructor or Department Chair.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their programs. Together, the Instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Exhibit an acceptable work ethic per CWE guidelines and learning objectives.
- CLO#2: Demonstrate strong work performance based on learning objectives.
- CLO#3: Maintain a professional presence per CWE guidelines.
- CLO#4: Apply program knowledge, skills, and technology while gaining new experience.
(ILO: Critical Thinking)

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:
PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per credit, not to exceed (36) hours per credit.

Healthcare

HC 100 - Community Health Worker

6 Credit(s)

Course Description: Approved by the Oregon Health Authority, this course prepares students to be certified as community health workers in Oregon. Provides training in front-line public health care with an understanding and connection to the communities they serve. Also provides training in facilitating patient access to health and social services and to improve the quality and cultural competence of service delivery. Trains students to provide culturally appropriate health education and information, assist people in receiving the care they need, give informal counseling and guidance on health behaviors, advocate for individuals and community health needs, and provide some direct services such as first aid and blood pressure screening.

Course Learning Outcomes:

- CLO#1: Demonstrate active listening, reflecting, and rephrasing skills when communicating with patients, community partners and medical personnel. (ILO: Communication)
- CLO#2: Demonstrate the ability to coordinate complex service delivery systems. and knowledge of available community resources, including health and social services. (ILO: Critical Thinking)
- CLO#3: Demonstrate the ability to provide culturally appropriate health or nutrition education. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#4: Identify findings, patterns, habits, and behaviors that prevent the further development of common diseases/disorders and high-utilization of unnecessary healthcare services and use accepted terminology to describe findings, patterns, habits, and behaviors of clients. (ILO: Critical Thinking)
- CLO#5: Demonstrate how to conduct home visitations to monitor health needs and reinforce treatment regimens, report and record abnormal findings, patterns, habits, and behaviors of clients. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Regular access to high-speed Internet.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120) and a standard RCC delivery of (132) lecture/lab hours per term, not to exceed (144) hours per term.

Human Development

HD 114 - Life and Career Planning

2 Credit(s)

Course Description: Designed to provide students with a wide array of useful life planning and management tools. During the course, students try each of the tools to test their applicability and value in managing their own circumstances. As a final assignment, students select tools that are personally valuable and confirm their planned use beyond the course. Course is offered exclusively to TRiO SSS participants.

Course Learning Outcomes:

- CLO#1: Identify academic and career pathways that align with personal strengths.
- CLO#2: Describe key concepts and strategies in financial planning and budgeting.
- CLO#3: Demonstrate verbal and written communication skills. (ILO: Communication)
- CLO#4: Establish personal goals and objectives.

CLO#5: Develop networking skills to support individual study and career progression.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

HD 215 - Transfer Success

2 Credit(s)

Course Description: Prepares students for transfer to a 4-year college or university. Course content focuses on developing strategies for choosing a program major and a transfer institution, identification of resources to assist in the transfer process, and information for obtaining financial aid and scholarships. Students will utilize the Career Information Systems (CIS) and navigate university websites to aid in the decision-making progress. Course is offered exclusively to TRiO SSS participants.

Course Learning Outcomes:

CLO#1: Research and develop a career plan including the required major for that career.

(ILO: Critical Thinking)

CLO#2: Discuss financial aid options and ways for funding education. (ILO: Communication)

CLO#3: Identify academic systems and where to find resources to assist in making a successful transfer.

CLO#4: Complete and submit a university application for transfer purposes.

CLO#5: Utilize internet research resources such as CIS and university websites.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per one term, not to exceed (24) hours per term.

Health Education

HE 112 - Emergency First Aid

1 Credit(s)

Course Description: Teaches students the critical skills necessary to respond to and manage a first aid, choking or sudden cardiac arrest emergency in the first few minutes until emergency medical services (EMS) arrives. Students learn skills such as how to treat bleeding, sprains, broken bones, shock and other first aid emergencies. Course allows more time for in-depth practice and testing in CPR as well as setting a scene for safety, learning about blood borne pathogens, AHA chain of survival, and the Good Samaritan Law. Upon successful completion of the written and practical portions of the course, students will receive an American Heart Association's Emergency First Aid Heartsaver® card.

Course Learning Outcomes:

- CLO#1: Acquire and evaluate information about a victim's situation: recognize life-threatening emergencies and determine extent of injuries.
- CLO#2: Assume a leadership role to serve injured person.
- CLO#3: Describe the function of a first responder in the first three minutes of a rescue. (ILO: Critical Thinking)
- CLO#4: Demonstrate the ability to quickly problem solve, allocate time in an efficient manner, and decisively perform tasks.
- CLO#5: Self-monitor own performance of CPR and first aid techniques and correct performance/methods.
- CLO#6: Demonstrate knowledge of emergency first aid terms and procedures in writing.

Typical Required and Recommended Equipment and Materials: Face shield for CPR.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

HE 131 - Intro to Exercise and Sport Science

3 Credit(s)

Corequisite(s):

WR 115

WR 115Q as required

Course Description: Introduces students to the field of exercise and sport science (EXSS). Upon completion of this class, students should have a good understanding of the history, the need for, current topics in, and careers available in EXSS, as well as education/ certification required for these careers. This course helps many students decide if an educational path in EXSS is something that they wish to pursue. Basic online research will also be covered to allow students to seek out accurate and reliable information about EXSS.

Course Learning Outcomes:

- CLO#1: Articulate the history of exercise and sports science.
- CLO#2: Identify current topics and issues within exercise and sport science.
- CLO#3: Compare and contrast various career choices within exercise and sports science.
- CLO#4: Identify impact of the role of parents, athletes, coaches, and teammates within sport. (ILO: Critical Thinking)
- CLO#5: Articulate personal philosophy of exercise and sport in the context of larger professional goal or mission. (ILO: Communication)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

HE 145 - Stress Management - Healthy Living

1 Credit(s)

Course Description: Stress management provides a comprehensive overview of several theories and applications of managing stress. The course involves cognitive, affective, and psychomotor domains with a focus on individual student processing through in-class and out-of-class applications and reflection. Through this course, students are challenged to take responsibility for their health and lifelong learning. Stress Management/Healthy Living will provide students with an overview of key lifestyle behaviors/issues that promote a life of health and wellness: exercise, nutrition, and stress assessment, management and coping techniques will be the key topics of discussion.

Course Learning Outcomes:

- CLO#1: Evaluate major stress theories and concepts. (ILO: Critical Thinking)
- CLO#2: Organize key methods of stress management; interpret and present findings.
- CLO#3: Create a personal stress management program.
- CLO#4: Instruct group on own stress management program.

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (10) and a standard delivery of (11) lecture hours total per term, not to exceed (12) hours per term.

HE 199 - Special Studies - Health Issues

Var. (1-3) Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Requires students to delve into issues of health that are current and relevant to each individual. Students will be supported in the research process as topics are chosen and explored from a variety of research subjects. The course will conclude with a well researched, well documented final paper that examines the topic in depth using current research as the foundation. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Prepare a research proposal that outlines how the student intends to address a health-related topic.
- CLO#2: Articulate personal, national or global concern regarding chosen topic.
- CLO#3: Communicate written thought in a clear and organized manner to effectively inform, persuade, describe, and convey ideas. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

HE 208 - HIV and Infectious Diseases**1 Credit(s)****Corequisite(s):**

WR 115

WR 115Q as required.

Course Description: Introduces students to the epidemiology of HIV/AIDS, hepatitis virus, tuberculosis, and sexually transmitted diseases. Students will examine treatment options, prevention strategies, and legal and policy issues that impact infected individuals as well as the larger community. The course also explores the social, psychological, and ethical issues surrounding these diseases and their impact on present and future generations.

Course Learning Outcomes:

CLO#1: Demonstrate knowledge of the fundamental cause, nature, methods of prevention, control and treatment of HIV and other STDs.

CLO#2: Explain how virulence, dosage, and resistance influence infectious disease.

CLO#3: Identify individual responsibility and lifestyle behavior in the disease process. (ILO: Critical Thinking)

CLO#4: Communicate the implications of current social, political and economic policies on future HIV and STD transmission and prevention. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

HE 250 - Personal Health**3 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

Course Description: Examines personal and societal health topics including consumer health issues, major disease patterns, and the elements of good health. Students are required to internalize the topics on a personal level and relate them to daily life.

Course Learning Outcomes:

- CLO#1: Identify the key factors and behaviors that contribute to a healthy lifestyle.
- CLO#2: List environmental and genetic stressors.
- CLO#3: Identify common infectious and chronic disease patterns as well as diseases that are sexually transmitted.
- CLO#4: Evaluate personal health practices/levels of wellness relating to fitness and nutrition: create a "wellness-oriented" diet plan with optimal health practices.
- CLO#5: Create and implement behavioral modification goals based on student's self-evaluation of personal health practices/levels of wellness in fitness, disease and health risks, personal safety, nutrition and stress levels. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

HE 252 - First Aid - CPR

3 Credit(s)

Corequisite(s):

WR 115, and

WR 115Q as required

Course Description: Offers a basic life support plan for emergency care of cardiac victims until EMS arrives. Designed to help students recognize the signs and symptoms of a heart attack and cardiac arrest that pose a threat to life using techniques that emphasize the importance of compressions, airway management, and assisted breathing techniques (CAB). One- and two-rescuer strategies on adults, children and infants, airway obstruction relief, use of an Automated External Defibrillator (AED) are included. The first aid, CPR, and AED section covers the critical skills needed to respond to and manage a first aid, choking or sudden cardiac arrest. Students learn how to treat bleeding, sprains, broken bones, shock, and other first aid emergencies. Community Emergency Response Team (CERT) training. Provides the basic skills necessary to respond to a community's immediate needs in the aftermath of a disaster when emergency services are not immediately available. Successful completion of the course leads to an American Heart Association's Emergency First Aid Heartsaver® card and either an American Heart Association Basic Life Support Provider card or Heartsaver CPR w/AED card. All cards are valid for two years.

Course Learning Outcomes:

- CLO#1: Acquire and evaluate information of victim's situation and assume a leadership role to serve triage in a variety of emergencies.
- CLO#2: Describe the function of a first responder at the health care provider level in the first three minutes of a rescue. (ILO: Critical Thinking)
- CLO#3: Allocate time in an efficient, decisive manner that addresses each unique situation, and demonstrate the ability to quickly problem solve and perform tasks.
- CLO#4: Self-monitor own performance of Community Emergency Response Team (CERT) methods, CPR and first aid techniques; correct performance/methods.

- CLO#5: Participate as a team member and display leadership qualities by demonstrating speaking and listening skills while performing the required first responder skills.
- CLO#6: Demonstrate knowledge of emergency first aid terms and procedures in writing.
- CLO#7: Thinking critically, write research paper in a clear and organized manner that incorporates authoritative sources to communicate written emergency procedures and protocol for a variety of natural and manmade disasters when EMS is not forthcoming must make decisions to save lives. (ILO: Information Literacy)

Typical Required and Recommended Equipment and Materials: First aid folder or notebook and pocket shield mask. Access to a computer.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

HE 253 - Wilderness First Aid

3 Credit(s)

Prerequisite(s):

Physical abilities to allow hiking and lifting equipment. Previous basic first aid knowledge and CPR useful.

Corequisite(s):

WR 115, and

WR 115Q as required

Course Description: Provides individuals with foundational first aid principles and skills to be able to respond to emergencies in areas without access to immediate emergency medical services. Highlights the importance of critical thinking and decision making and provides hands-on learning using delayed-help situations. Students are trained to deal with many situations that may be encountered in the wilderness or remote location. Training focuses on teaching students to assess situations, improvise solutions using available resources to stabilize patients, and identify the best way to get patients to definitive medical treatment. Includes an overview of wilderness issues and allows students to be certified in basic wilderness first aid with successful completion of the course (in effect for two years).

Course Learning Outcomes:

- CLO#1: Describe the differences between the responsibilities and expectations of a wilderness remote responder as compared to an urban responder.
- CLO#2: Describe the issues surrounding the wilderness rescuer, negligence and legal considerations. (ILO: Communication)
- CLO#3: Describe and demonstrate the function and responsibility of a wilderness remote rescuer in the first few minutes of a medical or physical emergency event: prioritize care and properly assess a patient in the backcountry.
- CLO#4: Demonstrate prevention and care for injuries within the full range of possibilities covered in the wilderness course including environmental injuries, physical and biological hazards, and medical issues/problems in a variety of wilderness settings.

CLO#5: Demonstrate evacuation and survival techniques while maintaining EMS protocols in a prolonged wilderness setting. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Appropriate clothes/equipment for training outdoors, ruled paper and notebook.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

HE 259 - Athletic Injury Care and Prevention

3 Credit(s)

Corequisite(s):

WR 115, and

WR 115Q as required

Recommended Prerequisite(s):

BI 121 and BI 121L

Course Description: Introduces students to prevention, treatment, and management of athletic injuries. Basic musculoskeletal anatomy will be reviewed. Students will learn to assess, treat and rehabilitate various athletic injuries. Practical skill sessions for hands-on experience will be included in the course. **Physical Contact Note:** Due to the nature of this course, students are advised that physical contact between Instructor-to-student or student-to-student is required (example: taping of an ankle). If you do not think you will be able to participate to the extent required by the course, students are encouraged to speak to their advisors and consider an alternative course substitution.

Course Learning Outcomes:

CLO#1: Perform a primary and secondary assessment of victim to determine next steps.
(ILO: Communication)

CLO#2: Demonstrate basic risk management techniques prior to and during athletic activities including training practices, environmental considerations, protective equipment, and taping and bandaging skills (safe preparation).

CLO#3: Summarize a basic pathology of an injury (analysis of an injury) and demonstrate immediate and short-term care protocols.

CLO#4: Demonstrate how to use therapeutic exercise techniques for injuries and rehabilitation (rehabilitation and re-entry).

Typical Required and Recommended Equipment and Materials: Under wrap and athletic tape

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

HE 261 - CPR - Basic Life Support Provider

1 Credit(s)

Course Description: Offers a basic life support plan for emergency care of cardiac victims until EMS takes responsibility for the victim. Designed to help students recognize the signs and symptoms of a heart attack and cardiac arrest that pose a threat to life. Includes scene safety assessment, in-depth coverage of the signs and symptoms of cardiac arrest and heart attack, how an Automated External Defibrillator (AED) functions, blood borne pathogens, the Good Samaritan Law and chain of survival. Using techniques that emphasize the importance of compressions, airway management, and assisted breathing techniques (CABs), students are taught assessment skills to evaluate one- and two-rescuer strategies on adults, children and infants (excluding newborns), airway obstruction relief, and how to appropriately use an AED. Manikins are used in all intensive skill areas with ample time to practice and learn lifesaving skills. The course is intended to introduce and enhance existing skills and concepts and leave students with a firm understanding of both their limitations as first responders and their ability to provide basic lifesaving care. Repeatable every two years, with a limit of two occurrences. The course is taught at the provider level through the American Heart Association and results in either an American Heart Association Basic Life Support Provider card or Heartsaver CPR w/AED card. All cards are valid for two years.

Course Learning Outcomes:

- CLO#1: Acquire and evaluate information of victim's situation to assume a leadership role to triage and serve injured persons in a variety of emergency situations. (ILO: Critical Thinking)
- CLO#2: Evaluate life threatening symptoms of heart attack, cardiac arrest, circulation issues and agonal/nonexistent breathing.
- CLO#3: Describe the function of a first responder at the provider level in the first 3 minutes of a rescue.
- CLO#4: Allocate time in an efficient, decisive manner that addresses each unique situation, and demonstrate the ability to quickly problem solve and perform tasks.
- CLO#5: Self-monitor own performance of CPR and AED techniques and correct performance/methods.
- CLO#6: Demonstrate knowledge of CPR and AED terms and procedures in writing. (ILO: Communication)
- CLO#7: Participate as a team member and display leadership qualities by demonstrating speaking and listening skills while performing the required CPR skills.

Typical Required and Recommended Equipment and Materials: A pocket mask

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

HE 280 - CWE - Health Science

Var. (1-3) Credit(s)

Prerequisite(s):

Permission of CWE Instructor or Department Chair

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their programs. Together, the Instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate the ability to successfully complete the interview process. (ILO: Communication)
- CLO#2: Demonstrate the importance of completing forms accurately and meeting deadlines.
- CLO#3: Demonstrate the importance of an acceptable work ethic as described in the CWE Work Ethic and Professional Presence Guidelines and student's learning objectives.
- CLO#4: Demonstrate good work performance (student's learning objectives).

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

Health and Physical Education

HPE 295 - Health and Fitness for Life

3 Credit(s)

Course Description: Prepares students with the foundation needed to be successful health/PE majors and in other majors as well. Dominant topics include disease projections, essential nutrients, behavior modification, body composition, strength and endurance training, cardio-respiratory health, flexibility, the mechanics of stress and stress relief, and relationship building. Students assess lifestyles, wellness, fitness, nutrition, and risk for illness/disease as part of the course.

Course Learning Outcomes:

- CLO#1: Explain demographic health changes and trends in chronic and acute diseases in the U.S. over the last 100 years. (ILO: Critical Thinking)
- CLO#2: Explain best practices for addressing nutritional requirements for health.
- CLO#3: Explain how lifestyle choice progressions initiate and advance cardiovascular disease, cancer, and all other diseases.
- CLO#4: Describe the connection between stress/emotional well-being and physical wellness. (ILO: Communication)
- CLO#5: Evaluate his/her current state of general health and wellness, risk and personal safety and make progress toward a healthy lifestyle.

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

Human Services

HS 100 - Intro to Human Services

3 Credit(s)

Prerequisite(s):

Admission to the Human Services program, or Instructor approval.

Course Description: Provides general introduction to the field of Human Services and related helping professions. Invites students to explore their own biases, values, and beliefs as they relate to choosing Human Services as a profession. Course is a required class for any Human Services degree or certificate and is a prerequisite to practicum placement.

Course Learning Outcomes:

- CLO#1: Discuss the broad dimensions of human services and its history.
- CLO#2: Identify the essential skills that are required for effective and efficient delivery of services. (ILO: Communication)
- CLO#3: Identify personal characteristics as they relate to success in the Human Services field and selection of an appropriate practicum site.
- CLO#4: Recognize the complexities of human and social problems.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

HS 115 - Principles of Client Record Mgmt

1 Credit(s)

Prerequisite(s):

Admission to a Human Services program.

Course Description: Familiarizes students with the key concepts of clinical documentation related to screening and intake processes, assessments, treatment plans, reports, progress notes, discharge summaries, and other client-related data. Oregon Department of Human Services, American Society of Addiction Medicine, and other professionally relevant criteria will be introduced. Students will learn to respect clients' right to privacy and confidentiality, and to appreciate the importance of accurate, timely documentation and the necessity of safeguarding client records.

Course Learning Outcomes:

- CLO#1: Explain the rationale for accurate record keeping.
- CLO#2: Describe the basic contents of client records, including industry terminology, common abbreviations, etc.
- CLO#3: Identify and describe the client's right to privacy and the importance of confidentiality.
- CLO#4: Recognize ASAM criteria, Mini-mental Status exam, and DSM. (ILO: Information Literacy)
- CLO#5: Demonstrate the use of outcome measures.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

HS 144 - Introduction to Assertiveness**1 Credit(s)****Prerequisite(s):**

Admission to a Human Services program.

Course Description: Examines assertiveness and its relationship to personality development. Focuses on responsible assertive behavior in everyday life; emphasizing communication which respects self and others.

Course Learning Outcomes:

- CLO#1: Explain the difference between non-assertive, aggressive, and assertive behaviors, and the dynamics each play in interpersonal communication. (ILO: Communication)
- CLO#2: Evaluate own communication style, identify areas to improve.
- CLO#3: Demonstrate assertive communication skills and techniques. (ILO: Communication)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

HS 152 - Stress Management**1 Credit(s)****Prerequisite(s):**

Admission to a Human Services program.

Course Description: Provides an experiential learning experience geared to developing an understanding of personal stress levels. The course provides a variety of tools to develop stress management strategies.

Course Learning Outcomes:

CLO#1: Identify physiological aspects of stress.

CLO#2: Demonstrate and practice skills in assertive behavior including making requests, setting limits and giving feedback.

CLO#3: Identify the process for setting and achieving short- and long-term stress management goals. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

HS 155 - Interviewing Theory and Techniques**4 Credit(s)****Prerequisite(s):**

Admission to either a Human Services or a Family Support Services program, or Instructor approval.

Course Description: Provides theory and practice in basic counseling skills. This course is based on Carl Rogers' active listening approach. The course also helps students begin to think critically about their own counseling skills and to document the process in written format.

Course Learning Outcomes:

CLO#1: Identify the phenomenological world of the client. (ILO: Critical Thinking)

CLO#2: Demonstrate reflection in counselor-client communication.

CLO#3: Demonstrate active listening skills.

CLO#4: Use self-evaluation skills to reflect on identification of the phenomenological world of the client and reflection in counselor-client communication.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

HS 158 - Trauma Informed Theory and Practice**3 Credit(s)****Prerequisite(s):**

Admission to a Human Services program.

Recommended Prerequisite(s):

PSY 202Z

Course Description: Introduces students to the phenomenon of psychological trauma as well as the impact of physical trauma on the psychological functioning of individuals, couples and families. The course will include the history and current theories in the field, the nature of trauma, and its impact on the developing individual across various domains of functioning. Also included in this class is a survey of emerging promising practices in the healthcare field, including an exploration of the effects of working with trauma survivors on service providers and the unintended re-traumatization of survivors by social service systems. Students will explore the concept of trauma-informed care and be introduced to examples of trauma-informed systems.

Course Learning Outcomes:

- CLO#1: Discuss the prevalence and types of trauma that impact individuals at various stages of development.
- CLO#2: Describe the consequences of trauma for the individual and society, from a cognitive, neurobiological/physiological, and systems perspective including signs and symptoms indicative of a trauma history. (ILO: Critical Thinking)
- CLO#3: Articulate the distinction between trauma-informed care and trauma specific services, including definitions and diagnostic criteria for PTSD and complex trauma.
- CLO#4: Define the important elements of trauma-informed services and organizational systems, including characteristics and practices within organizations that are re-traumatizing.
- CLO#5: Recognize an array of effective screening and assessment tools for identifying trauma history, as well as interventions designed to treat current traumatic symptoms and mediate the influence of previous trauma history on current services.
- CLO#6: Identify vicarious trauma and ways to minimize and manage the impact of working with trauma survivors on service providers.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

HS 170 - Introduction to Practicum

3 Credit(s)

Prerequisite(s):

Acceptance into a Human Services Program.

Course Description: Provides background and specific skills needed to select and succeed in a practicum placement. It also provides information and a foundation for employment in the human services field by helping develop information and contacts for community agencies.

Course Learning Outcomes:

- CLO#1: Define the role of practicum in the Human Services program.
- CLO#2: Articulate interests, values, and limits as they relate to practicum and career goals. (ILO: Communication)
- CLO#3: Identify community agencies and their mission.
- CLO#4: Select a practicum site.
- CLO#5: Write appropriate practicum objectives.

CLO#6: Catalogue and maintain course information for future reference in practicum and career placement.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

HS 175 - Ethics for Counselors

1 Credit(s)

Prerequisite(s):

Acceptance to the Human Services program, or Instructor approval.

Course Description: Prepares students for ethical decision making in the human services field. Includes study of selected professional Codes of Ethics. Case studies will be utilized for additional practice and integration.

Course Learning Outcomes:

CLO#1: Identify the assumptions and rationale underlying the Code of Ethics for Human Services professionals and ACCBO ethical standards.

CLO#2: Describe the differences between law, morality and professional ethics utilizing case studies.

CLO#3: Define client rights and responsibilities and the legal and ethical ramifications of violating client's rights within the helping relationship.

CLO#4: Define confidentiality regulations and the legal and ethical ramifications of both compliance and non-compliance. (ILO: Critical Thinking)

CLO#5: Demonstrate an ability to recognize when a dilemma has ethical dimensions.

CLO#6: Outline a process for making decisions that can be used when confronted with ethical dilemmas.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hour per term, not to exceed (12) hours per term.

HS 185 - EDI in the Workplace

3 Credit(s)

Prerequisite(s):

HS 261D and HS 265 and admission to a Human Services program.

Corequisite(s):

WR 115

WR 115Q as required

Course Description: This community-centered course is open to businesses, non-profits, county and state agencies, or individuals who desire to develop their skills in the practices of equity, diversity, and inclusion. This course consists of highly interactive sessions to help participants better understand our diverse community's complexity. The curriculum focuses on practicing self-discovery, integrating equitable practices, developing inclusive spaces, embracing anti-racist actions, fostering cultural humility, and creating a plan of action.

Course Learning Outcomes:

- CLO#1: Explain how systemic oppressions impact the workplace, and identify how they impact the self.
- CLO#2: Describe the impact of implicit biases and micro-aggressions based on race, ethnicity, age, gender, sexual orientation, social class, (dis)ability, and nationality and demonstrate tools to interrupt them. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#3: Foster cultural humility by explaining the importance of diverse perspectives and practicing cultural self-discovery.
- CLO#4: Create a plan of action to implement at least one new practice that will nurture equity and inclusion.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

HS 199 - Special Studies - Human Services

Var. (1-3) Credit(s)

Prerequisite(s):

Admission to a Human Services program.

Course Description: Presents introductory special topics in human services including, but not limited to, trauma, drug and alcohol abuse, client record management, and client contact. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Individual course outcomes and ILOs will be developed at the time the proposed class is designed.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

HS 200 - Child Abuse and Neglect

3 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Admission to a Human Services program.

Course Description: Examines historical and contemporary perspectives on child maltreatment, including neglect, physical, sexual, and emotional abuse, and ritualistic abuse of children. The course will also touch on various type of elder abuse. Students will study the psycho-social impact of maltreatment on victims and their families, along with treatments available for survivors, abusers and their families. Students will be acquainted with the developmental, medical and legal aspects of the different types of abuse and will study the indicators of abuse, intervention, prevention, reporting criteria, and legal procedures. Formerly offered as HDFS260.

Course Learning Outcomes:

CLO#1: Describe the historical factors contributing to our current perspectives on abuse & neglect.

CLO#2: Explain the basic indicators of child maltreatment.

CLO#3: Identify the dynamics of both familial and extra-familial abuse.

CLO#4: Give examples of myths and facts about abuse victims, survivors and offenders.

(ILO: Critical Thinking)

CLO#5: Delineate requirements and procedures for reporting child maltreatment.

CLO#6: Identify the process and rationale for termination of parental rights in child abuse cases.

CLO#7: Describe survivor & offender treatment programs.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per one term, not to exceed (36) hours per term.

HS 201 - Family Dynamics

3 Credit(s)

Prerequisite(s):

Acceptance into Human Services AAS Program or Family Support Program(s).

Course Description: Explores the dynamics of the family and its role in shaping the lives of its members. It offers a framework of understanding the influences of family, focusing on both effective and maladaptive responses to stressors such as poverty, addictions, divorce, etc. This understanding is central to the further study of how social services are designed and delivered to individuals and families in need.

Course Learning Outcomes:

CLO#1: Describe family systems models, including characteristics, structural properties and rules. (ILO: Critical Thinking)

- CLO#2: Identify strategies employed by families for accomplishing tasks such as identity development, maintaining boundaries and managing stress/anxiety.
- CLO#3: Delineate models of family interaction, taking into account ethnic, cultural and gender diversity issues.
- CLO#4: Discuss the impact on the family system of internal and external stressors such as domestic violence, substance abuse, child abuse and neglect, single parenting, step-parenting etc.
- CLO#5: Recognize the issues which impact non-traditional families, including single parent, step and blended families, same-sex parented families, and families without children.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

HS 202 - Substance Abuse Counseling

3 Credit(s)

Prerequisite(s):

Admission to a Human Services program.

Course Description: Provides an overview of the scope of chemical dependency issues, including demographics of alcohol and drug use, the brain and drugs, addiction definitions, theories and dynamics, treatment modalities, denial and other psychological defenses, counseling techniques, functions and techniques of interventions and confrontations, pharmacotherapy, countertransference, codependency dynamics, relapse dynamics, psychoeducation, and self-help.

Course Learning Outcomes:

- CLO#1: Describe the basic theories and dynamics of chemical dependency and addiction.
- CLO#2: Identify the basic theories and techniques of counseling chemically dependent clients.
- CLO#3: Recognize the role and function of counselors in an addiction counseling setting.
(ILO: Communication)
- CLO#4: Identify the chemical dependency treatment system and the advantages and disadvantages of the various options.
- CLO#5: Recognize the various influences upon chemical dependency concepts and treatment including political, economic, familial, social and cultural.
- CLO#6: Discuss issues and intervention strategies specific to diverse populations of clients (e.g. culturally diverse people, people with disabilities, older adults, children, people who are gay or lesbian, etc.).

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

HS 210 - Motivational Interviewing

3 Credit(s)

Prerequisite(s):

Admission to a Human Services program.

Course Description: Designed as the second in a two-course sequence (See HS 155) designed to introduce students to intentional interviewing and as a foundation for developing basic counseling skills. Focus will be on developing more intensive counseling skills with significant opportunity for hands-on practice.

Course Learning Outcomes:

- CLO#1: Design and conduct an interview/counseling session to motivate client change through appropriate use of motivational interviewing and stages of change. (ILO: Critical Thinking)
- CLO#2: Demonstrate motivational interviewing.
- CLO#3: Discuss the concept of stages of change.
- CLO#4: Demonstrate use of motivational interviewing as an approach to confrontation and conflict management in working with clients.
- CLO#5: Develop realistic goals, an action plan, and a way to measure collaborating with a client.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

HS 260 - Group Counseling

4 Credit(s)

Prerequisite(s):

Admission to a Human Services program, or Instructor approval.

Course Description: Provides students with the theory and skills of small group dynamics. Focuses on group formation, development of norms, conflicts and controversy, and performance and evaluation. Includes group leader competencies; skills and attitudes; therapeutic factors; group goals and structure; client screening, stages; rules and client roles; phases of group, group problems and issues; opening and closing techniques; group ethics and client termination processes; the role of values, catharsis, transference and counter transference; self-disclosure; and working with a co-leader and counselor.

Course Learning Outcomes:

- CLO#1: Identify principles of group dynamics, including group process components, developmental stage theories, group members' roles and behaviors, and therapeutic factors of group work. (ILO: Communication)
- CLO#2: Demonstrate understanding of group leadership styles and approaches, including characteristics of various types of group leaders and leadership styles.

- CLO#3: Identify group counseling methods, including group counselor orientations and behaviors, appropriate selection criteria and ongoing methods, and methods of client evaluation.
- CLO#4: Recognize approaches used for other types of group work, including task groups, psychoeducational groups, and therapy groups.
- CLO#5: Develop ethical and culturally relevant strategies for designing and facilitating groups.
- CLO#6: Direct experiences in which students participate as co-facilitator and as members in a small group.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

HS 261C - Human Services Practicum - Seminar

3 Credit(s)

Prerequisite(s):

Acceptance into Human Services Program(s) or Family Support Program(s).

Course Description: Provides on-site clinical and community experience with human service organizations plus weekly seminars. Students are expected to arrange for a field placement with an approved agency prior to the start of class. Seminars are designed to provide supervision and help students integrate field, classroom experiences and interviewing skills. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Develop, practice, and evaluate personal skills needed to be a human service worker.
- CLO#2: Develop and practice service skills necessary to work with clients served by the participating agency.
- CLO#3: Develop system skills, including an awareness of the philosophy, activities, and practices of the participating agency.
- CLO#4: Develop and implement appropriate learning objectives related to program competencies. Include coping, survival and stress management skills.
- CLO#5: Develop active listening skills. (ILO: Communication)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

SEMINAR PORTION: A required state minimum of (10) and a standard of (11) seminar hours per term, not to exceed (12) hours per term. CWE PORTION: A required state minimum of (60) and a standard of (66) CWE hours per term, not to exceed (72) hours per term.

HS 261D - Human Services Practicum - Seminar

4 Credit(s)

Prerequisite(s):

Acceptance into Human Services Program(s) or Family Support Program(s).

Course Description: Provides on-site clinical and community experience with human service organizations plus weekly seminars. Students are expected to arrange for a field placement with an approved agency prior to the start of class. Seminars are designed to provide supervision and help students integrate field, classroom experiences and interviewing skills. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Develop, practice, and evaluate personal skills needed to be a human service worker.
- CLO#2: Develop and practice service skills necessary to work with clients served by the participating agency.
- CLO#3: Develop system skills, including an awareness of the philosophy, activities, and practices of the participating agency.
- CLO#4: Develop and implement appropriate learning objectives related to program competencies. Include coping, survival and stress management skills.
- CLO#5: Develop active listening skills. (ILO: Communication)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

SEMINAR PORTION: A required state minimum of (10) and a standard of (11) seminar hours per term, not to exceed (12) hours per term. CWE PORTION: A required state minimum of (90) and a standard of (99) CWE hours per term, not to exceed (108) hours per term.

HS 261E - Human Services Practicum - Seminar

5 Credit(s)

Prerequisite(s):

Acceptance into Human Services Program(s) or Family Support Program(s).

Course Description: Provides on-site clinical and community experience with human service organizations plus weekly seminars. Students are expected to arrange for a field placement with an approved agency prior to the start of class. Seminars are designed to provide supervision and help students integrate field, classroom experiences and interviewing skills. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Develop, practice, and evaluate personal skills needed to be a human service worker.
- CLO#2: Develop and practice service skills necessary to work with clients served by the participating agency.
- CLO#3: Develop system skills, including an awareness of the philosophy, activities, and practices of the participating agency.
- CLO#4: Develop and implement appropriate learning objectives related to program competencies. Include coping, survival and stress management skills.
- CLO#5: Develop active listening skills. (ILO: Communication)

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

SEMINAR PORTION: A required state minimum of (10) and a standard of (11) seminar hours per term, not to exceed (12) hours per term. CWE PORTION: A required state minimum of (120) and a standard of (132) CWE hours per term, not to exceed (144) hours per term.

HS 261F - Human Services Practicum - Seminar

6 Credit(s)

Prerequisite(s):

Acceptance into Human Services Program(s) or Family Support Program(s).

Course Description: Provides on-site clinical and community experience with human service organizations plus weekly seminars. Students are expected to arrange for a field placement with an approved agency prior to the start of class. Seminars are designed to provide supervision and help students integrate field, classroom experiences and interviewing skills. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Develop, practice, and evaluate personal skills needed to be a human service worker.
- CLO#2: Develop and practice service skills necessary to work with clients served by the participating agency.
- CLO#3: Develop system skills, including an awareness of the philosophy, activities, and practices of the participating agency.
- CLO#4: Develop and implement appropriate learning objectives related to program competencies. Include coping, survival and stress management skills.
- CLO#5: Develop active listening skills. (ILO: Communication)

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

SEMINAR PORTION: A required state minimum of (10) and a standard of (11) seminar hours per term, not to exceed (12) hours per term. CWE PORTION: A required state minimum of (150) and a standard of (165) CWE hours per term, not to exceed (180) hours per term.

HS 261G - Human Services Practicum - Seminar

7 Credit(s)

Prerequisite(s):

Acceptance into Human Services Program(s) or Family Support Program(s).

Course Description: Provides on-site clinical and community experience with human service organizations plus weekly seminars. Students are expected to arrange for a field placement with an approved agency prior to the start of class. Seminars are designed to provide supervision and help students integrate field, classroom experiences and interviewing skills. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Develop, practice, and evaluate personal skills needed to be a human service worker.
- CLO#2: Develop and practice service skills necessary to work with clients served by the participating agency.
- CLO#3: Develop system skills, including an awareness of the philosophy, activities, and practices of the participating agency.
- CLO#4: Develop and implement appropriate learning objectives related to program competencies. Include coping, survival and stress management skills.
- CLO#5: Develop active listening skills. (ILO: Communication)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

SEMINAR PORTION: A required state minimum of (10) and a standard of (11) seminar hours per term, not to exceed (12) hours per term. CWE PORTION: A required state minimum of (180) and a standard of (198) CWE hours per term, not to exceed (216) hours per term.

HS 261H - Human Services Practicum - Seminar

8 Credit(s)

Prerequisite(s):

Acceptance into Human Services Program(s) or Family Support Program(s).

Course Description: Provides on-site clinical and community experience with human service organizations plus weekly seminars. Students are expected to arrange for a field placement with an approved agency prior to the start of class. Seminars are designed to provide supervision and help students integrate field, classroom experiences and interviewing skills. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Develop, practice, and evaluate personal skills needed to be a human service worker.
- CLO#2: Develop and practice service skills necessary to work with clients served by the participating agency.
- CLO#3: Develop system skills, including an awareness of the philosophy, activities, and practices of the participating agency.
- CLO#4: Develop and implement appropriate learning objectives related to program competencies. Include coping, survival and stress management skills.
- CLO#5: Develop active listening skills. (ILO: Communication)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

SEMINAR PORTION: A required state minimum of (10) and a standard of (11) seminar hours per term, not to exceed (12) hours per term. CWE PORTION: A required state minimum of (210) and a standard of (231) CWE hours per term, not to exceed (252) hours per term.

HS 265 - Introduction to Counseling Theories

3 Credit(s)

Prerequisite(s):

Admission to a Human Services program.

Course Description: An introductory course covering the theoretical concepts and practical applications of counseling intervention strategies for the beginning helping professional. Specific topics: the helper as a person and as a professional including values, attitudes and ethics; an understanding of cultural issues that create barriers to helping; and the counseling intervention models of Psychoanalytical, Gestalt, Existential, Cognitive-behavioral and Family therapies.

Course Learning Outcomes:

- CLO#1: Identify strengths and blind spots as a helping professional i.e., values and ethics.
- CLO#2: Recognize concepts of compassion, suffering, and burnout inherent within the helping field. (ILO: Critical Thinking)
- CLO#3: Identify and apply the basic concepts of Psychoanalytical, Gestalt, Existential, Cognitive-behavioral and Feminist therapies.
- CLO#4: Apply the intervention modalities as well as recognize and distinguish between all methods of intervention studied.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

HS 266 - Crisis Intervention Strategies

3 Credit(s)

Prerequisite(s):

Admission to a Human Services program.

Course Description: Part of a sequence of courses teaching theory and practice in assessment, intervention, and case handling strategies for the helping professional. The current course focuses on crisis situations, including assessment of function and lethality, appraisal of the individual, intervention strategies, case management, referral resources, ethical and professional issues, and specific situational stressors which may lead to a crisis state. Emphasis is on defusing the crisis situation, enhancing mobility and self-determination and ensuring the safety of the client and community. Suicide and other dangers to self and others are of particular concern, as well as the personal and social implications of involuntary hospitalization, civil commitment, and follow-up treatment, including delayed stress reactions and other consequences of crisis events.

Course Learning Outcomes:

- CLO#1: Explain characteristics of crisis, intervention models, and assessment of individuals in crisis situations.
- CLO#2: Give examples of strengths and positive coping behaviors in their clients and to collaborate with clients for resolution of crisis situations.

- CLO#3: Identify signs of decompensation and immobility and recognize the responsibility of the helping professional in assisting individuals to move through these states to a greater level of functioning and coping. (ILO: Communication)
- CLO#4: Develop skills to assist individuals in finding and using appropriate resources to reduce or manage the urgency of crisis situations.
- CLO#5: Recognize emotional intensity inherent in crisis intervention work, including personal triggers, signs of burnout and vicarious traumatization.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) hours per term, not to exceed (36) hours per term.

HS 268 - Intro to Co-occurring Disorders

3 Credit(s)

Prerequisite(s):

Admission to a Human Services program.

Course Description: Designed to provide entry level scope and depth of information relative to those human services helpers who are working with clients with a dual diagnosis, to specifically mean clients with both a mental health and an addictions diagnosis. Historical assessment and treatment processes as well as current, state of the art models and systems will be studied. Relevant terminology from both the mental health and addictions arenas will be examined. Professional preparation, systems proficiencies and barriers will be evaluated. Primary field data for mental health and addictions will be surveyed for dual diagnosis context. Pharmacotherapy of the dual diagnosed client will be reviewed. Special assessment, diagnosis, and treatment issues will be examined, as well as family and community system variables. Specific dyads of mental health diagnoses with addictions diagnoses will be studied for case dynamics and special, individual considerations. Networking, team application, and multiagency collaboration will be studied. Lastly, participants will examine personal perspectives, beliefs, concerns, anxieties, and attitudes about mental health and addictions concepts and dual diagnosis clients.

Course Learning Outcomes:

- CLO#1: Develop a working terminology from the mental health and addictions arenas to form a basis for dual diagnosis application.
- CLO#2: Describe personal perspective of dual diagnoses clients and related attitudes about dual diagnosis systems issues/problems.
- CLO#3: Research available dual diagnosis care systems locally and at state levels, to include staff interviews (small group project). (ILO: Information Literacy)
- CLO#4: Describe dual diagnosis treatment systems, including professional roles, system components, developmental processes, and barriers to proficient care.
- CLO#5: Recognize primary elements and typical processes of both mental health and addictions treatment systems to understand dual diagnosis perspectives of each.
- CLO#6: Identify standard array of pharmacological interventions used with dual diagnosis clients.
- CLO#7: Properly describe the most common assessment, diagnostic, and treatment barriers, and offer available efficacious solutions to each barrier. (ILO: Communication)
- CLO#8: List the cogent variables of dual diagnosis client care relative to family issues and dynamics.

CLO#9: Describe and plan for effective utilization of community resources for dual diagnosis clients and be aware of mental health and addictions priorities by community leaders and treatment professionals.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

HS 271 - HS Capstone - Applied Skills

2 Credit(s)

Prerequisite(s):

HS 155 and HS 261D or HS 261E or HS 261F or HS 261G or HS 261H

Course Description: This capstone course provides students with the opportunity to integrate and apply knowledge, skills, and values developed throughout the Human Services program. Students will reflect on their academic learning and practicum experience and demonstrate professional readiness through culminating projects and presentations. Emphasis is placed on professional identity development, career readiness, and critical thinking that bridges theory with real-world practice.

Course Learning Outcomes:

- CLO#1: Demonstrate core helping skills-such as active listening, attending, appropriate questioning, and specified interviewing techniques-through recorded interview projects and accompanying written analysis. (ILO: Communication)
- CLO#2: Integrate academic and field-based learning to demonstrate skill development, professional identity, and career readiness in the field of Human Services.
- CLO#3: Apply critical thinking to integrate academic and practicum experiences with counseling techniques and interpersonal skills.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

HS 299 - Special Studies - Human Services

Var. (1-3) Credit(s)

Prerequisite(s):

Admission to a Human Services program.

Course Description: Presents advanced special topics in human services including, but not limited to, trauma, drug and alcohol abuse, client record management, and client contact. Course is repeatable.

Course Learning Outcomes:

CLO#1: Individual course outcomes and ILOs will be developed at the time the proposed class is designed.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

History**HST 104 - World Civ Prehistory - Middle Ages**

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Provides a survey of various aspects of civilization in regions around the world. In addition to discussion of western civilizations originating from the Near East and Europe, this course includes the civilizations of India, Africa, East Asia (China/Japan) Russia, Southeast Asia, and Latin America. Included in the reading and discussion are historical, cultural, religious, social, economic, and political developments in the various civilizations. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

CLO#1: Explain the similarities among civilizations through identifying conditions which allow civilizations to develop and discuss why civilizations change or collapse.

CLO#2: Explain differences in culture, attitude, and religion among civilizations.

CLO#3: Analyze governmental and class structures, revolutions and religious movements.

CLO#4: Give examples of historical motives and actions affecting the present and identify opportunities for the future.

CLO#5: Identify the major world religions and political theories and their places in the growth of civilizations, politics, and culture in various locations. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

HST 105 - World Civ Byzantium - Present

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Provides a survey of various aspects of civilization in regions around the world. In addition to discussion of western civilizations originating from the Near East and Europe, this course includes the civilizations of India, Africa, East Asia (China/Japan) Russia, Southeast Asia, and Latin America. Included in the reading and discussion are historical, cultural, religious, social, economic, and political developments in the various civilizations. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

CLO#1: Analyze governmental and class structures, colonialism, racial and ethnic relations and inequalities, revolutions and religious movements. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

CLO#2: List diverse human values and points of view.

CLO#3: Describe the challenges facing the human race in the 21st century with a global perspective.

CLO#4: Identify the major world religions and political theories and their places in the growth of civilizations, politics, and culture in various locations.

CLO#5: Explain the historical context of current tensions in key regions in the world.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

HST 199 - Special Studies - History

Var. (1-3) Credit(s)

Prerequisite(s):

Permission of instructor. Other prerequisites may vary depending on subject offerings.

Course Description: Selected topics of study in history are offered on demand through workshops, seminars, lecture, lab, and/or independent study format. Course is repeatable.

Course Learning Outcomes:

CLO#1: Individual course outcomes and ILOs will be developed at the time the proposed class is designed. Typical assessments will include but are not limited to homework exercises, discussion, quizzes, examinations, course discussions, and research papers.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

HST 201 - US History through Reconstruction

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Surveys American history from early Indigenous societies through Reconstruction after the Civil War. Presents a detailed coverage of influences - political, social, ethnic, racial, colonial, religious, cultural, technical, and geographical - that have affected the history of the United States. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

- CLO#1: Explain the events and people influencing political and social change as well as contributions in culture and religious movements among the various groups within the United States.
- CLO#2: Analyze settler colonialism, racial, governmental and class structures and their impacts. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#3: Evaluate diverse human values, and recognize historical motives and actions affecting the present and identify opportunities for the future.
- CLO#4: Trace the historical roots of current institutions, attitudes, race relations and inequalities, political activism, and Constitutional ramifications.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

HST 202 - US HST Post Reconstruction-Present

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Surveys American history from the Progressive Era to the present. Presents a detailed coverage of influences - political, social, ethnic, racial, colonial, religious, cultural, technical, and geographical - that have affected the history of the United States. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

- CLO#1: Explain the events and people influencing political and social change as well as contributions in culture and religious movements among the various groups within the United States.
- CLO#2: Analyze settler colonialism, racial, governmental and class structures and their impacts. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#3: Evaluate diverse human values, and recognize historical motives and actions affecting the present and identify opportunities for the future.
- CLO#4: Identify the challenges facing the human race, American sense of democracy, legal, and environmental issues in the 21st century with a global perspective.
- CLO#5: Describe the historical context of current tensions in key regions in the world and the role of the United States in the international community.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

HST 259 - Chicano-a Latino-a US History

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Examines the diversity that resides within the Chicano, Mexicano, Latino, Hispanic and Caribbean cultural experience in the Americas, beginning from pre-Columbian times to the present. Covers pre-Columbian heritage, Spanish colonization, American conquest in the Mexican-American War and the Spanish American War, the Mexicans' role in American labor, Bracero Program, and the Chicano Movement. The class will provide a framework for understanding the ways in which distinctive social and cultural patterns arose, bringing awareness of contemporary expressions of identity and their historical origins. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Cross-listed with SOC 235.

Course Learning Outcomes:

- CLO#1: Identify and discuss significant events that shaped the history of the Chicana/o and Latina/o experience in the U.S.
- CLO#2: Evaluate the difference between personal opinions and sociological explanations through the use of scientific research and the sociological imagination. (ILO: Critical Thinking)
- CLO#3: Examine the historical and social forces which create and define contemporary Latina/o social identity, including common stereotypes and misinformed conceptualizations found in both majority and minority cultures.
- CLO#4: Illustrate acquired knowledge regarding the social histories and cultures of Chicana/o and Latina/o peoples, including the cultural foundation and traditions of Spain and the Americas, and their influence on the experiences of Chicana/o and Latina/o peoples as residents and citizens of the United States.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

HST 280 - CWE - History

Var. (1-3) Credit(s)

Prerequisite(s):

Prior arrangements with CWE Instructor or Department Chair.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their programs. Together, the Instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate the ability to successfully complete the interview process.
- CLO#2: Demonstrate the importance of an acceptable work ethic as described in the CWE Work Ethic and Professional Presence Guidelines and student's learning objectives.
(ILO: Communication)
- CLO#3: Demonstrate productive work performance (student's learning objectives).
- CLO#4: Apply program knowledge, theories, principles, methods and technology.
- CLO#5: Develop contacts which will help in obtaining employment.

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

Humanities

HUM 101 - Introduction to Humanities I

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement.

WR 115Q as required

Course Description: Provides a survey of important achievements in a variety of disciplines as they emerged during the classical periods and the medieval era, in Europe and beyond: visual arts, architecture, literature, philosophy, religions, music, theater, and criticism. This course covers the period from the first civilizations to the middle ages and is designed to help students trace the origin of the nature of human thought and creativity as they emerged and manifested themselves in the pre-industrial era. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree (AAOT).

Course Learning Outcomes:

- CLO#1: Compare and contrast the major works of art, architecture, drama, literature, music, philosophy, and religions of the periods covered, and describe their effects on humankind in subsequent centuries as well as the present. (ILO: Communication)
- CLO#2: Explain significant movements and developments in the arts and connect them with pertinent social and historical events.
- CLO#3: Describe the conflicts between the expressive needs of the culture at large, as seen in the role that gender, race, religion, philosophy/ideology, economic status, political climate, and censorship play in the arts.
- CLO#4: Critically examine how our own experiences and expectations help shape our responses to the arts and the views of others.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

HUM 102 - Introduction to Humanities II

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Provides a survey of important achievements in a variety of disciplines as they emerged during the Renaissance and the Age of Global Encounters: visual arts, architecture, literature, philosophy, religions, music, theater, and criticism. This course covers the period from the Proto-Renaissance to the Age of Reason and is designed to help students trace the origin of the nature of human thought and creativity as they emerged and manifested themselves in the pre-industrial era. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree (AAOT).

Course Learning Outcomes:

- CLO#1: Compare and contrast the major works of art, architecture, drama, literature, music, philosophy, and religions of the periods covered, and describe their effects on humankind in subsequent centuries as well as the present. (ILO: Communication)
- CLO#2: Explain significant movements and developments in the arts and connect them with pertinent social and historical events.

CLO#3: Describe the conflicts between the expressive needs of the culture at large, as seen in the role that gender, race, religion, philosophy/ideology, economic status, political climate, and censorship play in the arts.

CLO#4: Critically examine how our own experiences and expectations help shape our responses to the arts and the views of others.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

HUM 103 - Introduction to Humanities III

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Provides a survey of important achievements in a variety of disciplines as they emerged during the periods of Romanticism and Realism and shaped the world of the twentieth century: visual arts, architecture, literature, music, philosophy, religions, theater, and criticism. This course covers the period from Romanticism to the present and is designed to help students trace the nature of human thought and creativity, prepare them for further study and appreciation of the arts, and encourage them to look to the humanities for insights necessary to themselves and society. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree (AAOT).

Course Learning Outcomes:

CLO#1: Compare and contrast the major works of art, architecture, drama, literature, music, philosophy, and religions of the periods covered, and describe their effects on humankind in subsequent centuries as well as the present. (ILO: Communication)

CLO#2: Explain significant movements and developments in the arts and connect them with pertinent social and historical events.

CLO#3: Describe the conflicts between the expressive needs of the culture at large, as seen in the role that gender, race, religion, philosophy/ideology, economic status, political climate, and censorship play in the arts.

CLO#4: Critically examine how our own experiences and expectations help shape our responses to the arts and the views of others.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

HUM 199 - Special Studies - Humanities

Var. (1-3) Credit(s)**Prerequisite(s):**

Varies by course.

Course Description: Offered in a number of formats: workshop, seminar, or independent study. Course is repeatable.

Course Learning Outcomes:

CLO#1: Varies based on course focus.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

HUM 215 - Indigenous Cultures Eskimo - Inuit**4 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

Course Description: Studies the art and culture of the Eskimo/Inuit of the Arctic area from the past to the present. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree (AAOT).

Course Learning Outcomes:

CLO#1: Describe the historical and geographic context of the native Eskimo/Inuit peoples.
(ILO: Communication)

CLO#2: Describe the relationship between the peoples, their environment, and the resultant art forms.

CLO#3: Describe the process of acculturation: the exchange and adoption of ideas between two different cultures.

CLO#4: Explain how art reveals the creative person's potential and responsibilities in their culture, leading to greater self-esteem and awareness of community.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

HUM 216 - Indigenous Cultures NW Coast

4 Credit(s)**Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

Course Description: Studies the art and culture of the native people of the Northwest coast from the past to the present. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree (AAOT).

Course Learning Outcomes:

CLO#1: Explain the historical and geographic context of the native peoples of the Northwest coast. (ILO: Communication)

CLO#2: Describe the relationship between the peoples, their environment, and the resultant art forms.

CLO#3: Describe the process of acculturation: the exchange and adoption of ideas between two different cultures.

CLO#4: Explain how art reveals the creative person's potential and responsibilities in their culture, leading to greater self-esteem and awareness of community.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

HUM 217 - Indigenous Cultures Plains Nations**4 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

Course Description: Studies the art and culture of the native people of the Great Plains from the past to the present. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree (AAOT).

Course Learning Outcomes:

CLO#1: Describe the historical and geographic context of the peoples of the Great Plains. (ILO: Communication)

CLO#2: Describe the relationship between the peoples, their environment, and the resultant art forms.

CLO#3: Describe the process of acculturation: the exchange and adoption of ideas between two different cultures.

CLO#4: Explain how art reveals the creative person's potential and responsibilities in their culture, leading to greater self-esteem and awareness of community.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

HUM 218 - Indigenous Cultures SW Nations**4 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

Course Description: Studies the art and culture of the native people of the Southwest from the past to the present. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree (AAOT).

Course Learning Outcomes:

- CLO#1: Describe the historical and geographic context of the native peoples of the Southwest. (ILO: Communication)
- CLO#2: Describe the relationship between the peoples, their environment, and the resultant art forms.
- CLO#3: Describe the process of acculturation: the exchange and adoption of ideas between two different cultures.
- CLO#4: Explain how art reveals the creative person's potential and responsibilities in their culture, leading to greater self-esteem and awareness of community.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

HUM 219 - Indigenous Cultures Mexico**4 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

Course Description: Studies the art and culture of Pre-Columbian Mexico from the past to the present with an emphasis in placing the cultures in a historical and geographical time frame. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree (AAOT).

Course Learning Outcomes:

- CLO#1: Describe the historical and geographic context of the native peoples of Mexico. (ILO: Communication)
- CLO#2: Describe the relationship between the peoples, their environment, and the resultant art forms.
- CLO#3: Describe the process of acculturation: the exchange and adoption of ideas between two different cultures.
- CLO#4: Explain how art reveals the creative person's potential and responsibilities in their culture, leading to greater self-esteem and awareness of community.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

HUM 280 - CWE - Humanities

Var. (1-12) Credit(s)

Prerequisite(s):

Cooperative education is open to all students who have completed at least one-half of the required classes for their program of study, and have the recommendation of the Department Cooperative Education advisor.

Course Description: Cooperative education is a supervised program of on-the-job training for college credit in an English-related area. Students are placed in a related industry, business, agency or organization which has been approved by the College as having the interest, personnel and resources to serve as a training center. The goal of cooperative education is to provide a learning experience which enriches and strengthens the student's education, personal development, and vocational preparation. It joins educators and employers in developing the community's greatest asset - its human resources. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Gain college credit for a valid learning experience to fulfill degree or certificate requirements.
- CLO#2: Apply classroom theory to real world job experience. (ILO: Critical Thinking)
- CLO#3: Apply skills, gain experience, and make contacts which will help in obtaining a job after graduation.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

International Studies

IS 110 - Intro to International Studies

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Explores various cultures of the world with an emphasis on definition of culture, values, cross-cultural communication, and ethnocentrism. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree (AAOT).

Course Learning Outcomes:

CLO#1: Describe the many differences among a range of cultures.

CLO#2: Explain the problems encountered in cross-cultural communication.

CLO#3: Analyze the differences and similarities between and among other cultures as well as our own culture. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

Mechatronics

MEC 103 - Industrial Safety

1 Credit(s)

Course Description: Covers the importance of workplace safety, OSHA regulations, and practicing safety in the workplace. Learners will study topics like the importance of safety policies, common causes of workplace injuries and accidents, and OSHA regulations for general workplace safety, personal protective equipment, tools, and machines.

Course Learning Outcomes:

CLO#1: Apply basic workplace concepts and practices as it applies to safety.

CLO#2: Demonstrate the proper use of personal protective equipment.

CLO#3: Identify common causes of workplace accidents and how to mitigate them. (ILO: Critical Thinking)

CLO#4: Perform the four factors and requirements of an effective energy-control program (ECP).

Typical Required and Recommended Equipment and Materials: Scratch paper, pen or mechanical pencil

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MEC 114 - Safety for Industry

3 Credit(s)

Course Description: This course covers general shop safety for manufacturing environments and awareness of hazards. Safety topics covered include SDS sheets, personal protective equipment, lockout tag out procedures, and material handling among others.

Course Learning Outcomes:

- CLO#1: Identify 7 types of Personal Protective Equipment.
- CLO#2: Define a Hazardous Material Identification System.
- CLO#3: Describe how to interpret a Safety Data Sheet (SDS).
- CLO#4: Perform an electrical lockout/tagout. (ILO: Critical Thinking)
- CLO#5: Complete the final exam with a minimum score of 76% to receive the module certificate.

Typical Required and Recommended Equipment and Materials: Pen/pencil, scratch paper, thumb drive, headphones (highly recommended)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MEC 120 - Maintenance Awareness

4 Credit(s)

Prerequisite(s):

MTH 20 or designated placement

Course Description: Covers the basic mechanical skills needed by a technician, including use and care of hand tools and small power tools, drilling, tapping, removal of broken bolts, studs, and helicoil insertion. Basic measuring tools and techniques are covered, as well as type and use of fasteners, lubricants and adhesives used in repair, and assembly.

Course Learning Outcomes:

- CLO#1: Demonstrate a working knowledge of programmable logic theory, applications, and functions. Calculate and convert through various number systems and codes.
- CLO#2: Describe the principles of hydraulic pressure and flow. Identify hydraulic leverage and fluid friction. (ILO: Critical Thinking)
- CLO#3: Explain single acting cylinders, basic pneumatic motor circuits, and pneumatic circuit schematics.
- CLO#4: Complete the final exam with a minimum score of 73% to receive the module certificate.

Typical Required and Recommended Equipment and Materials: Pen/pencil, scratch paper, thumb drive, headphones (highly recommended)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MEC 124 - Hoisting and Rigging I

3 Credit(s)

Prerequisite(s):

MTH 102CT or designated placement

Course Description: Teaches how to safely move loads of different shapes and sizes using a variety of methods. Rigging skills are required in many industries including manufacturing, construction, and transportation.

Course Learning Outcomes:

CLO#1: Demonstrate hoisting and rigging principles safely.

CLO#2: Describe and demonstrate how to inspect a hoist.

CLO#3: Demonstrate how to find the center of gravity for various objects. (ILO: Critical Thinking)

CLO#4: Describe and demonstrate the proper use of slings, chains, spreader beams, wire and fiber rope.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-3x series), scratch paper for calculations/notes, pen or mechanical pencil, 3-ring binder

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MEC 125 - Pneumatics I

3 Credit(s)

Prerequisite(s):

CIS 120 (formerly offered as CS120), or document proficiency, and MTH 102CT or designated placement

Recommended Prerequisite(s):

MFG 116

Course Description: Prepares learners to work intelligently in industry with pneumatic applications. It introduces pneumatic power and takes learners through key topics and skills in pneumatic power and safety, pneumatic circuits, pneumatic schematics, the principles of pneumatic pressure and flow, and pneumatic speed control circuits. It covers pressure regulation, air filtration, how to connect pneumatic circuits, pneumatic cylinders, valves, and actuators, a

wide array of pneumatic applications, pressure and cylinder force, pneumatic leverage, pressure and volume, and air flow resistance.

Course Learning Outcomes:

- CLO#1: Describe and explain pneumatics, pneumatic safety, pressure regulators, filter function, circuit connection, branch circuits, and basic cylinders.
- CLO#2: Explain single acting cylinders, basic pneumatic motor circuits, and pneumatic circuit schematics.
- CLO#3: Calculate force output. Measure force, calculate retraction force, pressure and volume. State Boyle's law, calculate pressure and volume, air flow and resistance, and delta P pneumatic resistance. (ILO: Critical Thinking)
- CLO#4: Explain air flow control and measurement. Define flow rates, flow control valves, actuator loads, speed control, and exhaust ports.
- CLO#5: Discuss cam valves and cam-operated DCVs. Explain rapid traverse-slow feed and two-way valves.
- CLO#6: Describe externally-piloted valves and pneumatic DCV construction. Introduction to air logic. Describe the operation of air logic cylinder sequence circuit. Describe the shuttle valve and reciprocating cylinder.

Typical Required and Recommended Equipment and Materials: : Scientific calculator (Texas Instrument TI-3x series), scratch paper for calculations/notes, pen or mechanical pencil, 3-ring binder (required).

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MEC 130 - Hydraulics I

3 Credit(s)

Recommended Prerequisite(s):

MFG 116

Course Description: Introduces hydraulic power use and application, allowing learners to develop skills and knowledge needed to apply hydraulics in modern industry. Takes learners through key topics and skills in hydraulic power and safety, hydraulic circuits, hydraulic schematics, the principles of hydraulic pressure and flow, and hydraulic speed control circuits. Includes pumps, fluid friction, how to connect hydraulic circuits, hydraulic cylinders and valves (including needle valves), and a wide array of hydraulic applications.

Course Learning Outcomes:

- CLO#1: Define hydraulics and give an application. Describe the operation of a hydraulic power unit. Describe the function of a hydraulic schematic and basic cylinder circuits.
- CLO#2: Describe the principles of hydraulic pressure and flow. Identify hydraulic leverage and fluid friction.
- CLO#3: Describe the function of relief valves, check valves and flow control valves. Identify pressure control circuits. Explain sequence, pressure reducing valves.

CLO#4: Describe the function of a pressure sequence valve and give an application.
Describe the function of a pressure reducing valve and give an application. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-3x series), scratch paper for calculations/notes, pen or mechanical pencil, 3-ring binder (required).

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MEC 135 - Mechanical Drives I

4 Credit(s)

Recommended Prerequisite(s):

MFG 116

Course Description: Introduces mechanical systems and develops fundamental knowledge of mechanical systems and practices. Covers basic safety, installation, key fasteners, power transmission systems, v-belt drives, chain drives, spur gear drives, and multiple shaft drives. Topics covered include learning how to select, install, adjust, troubleshoot, and repair a range of mechanical systems which are commonly found in both automated and manual machines used in every industry around the world.

Course Learning Outcomes:

- CLO#1: Demonstrate proper procedures for personal protection equipment (PPE), and components safety when working with mechanical drive components.
- CLO#2: Describe the function of mechanical power transmission, rotary power, and motor foundation installation. Installing motor mounts. Measure shaft speed.
- CLO#3: Describe the function of keyseats. Explain key assembly and key specifications. Perform work loading on a mechanical drive system. Calculate rotary power, mechanical efficiency, motor torque, and electric motor current.
- CLO#4: List shaft specification and types of bearings, couplings and applications. Perform competency in shaft alignment. (ILO: Critical Thinking)
- CLO#5: Describe belt drive function. Define pitch circle, pitch diameter and pitch length of belt drive systems. Learn belt tensioning, measurement and installation.
- CLO#6: Describe chain drive function. Calculate sprocket ratios, shaft torque, and speed. Show competency in chain tensioning and sprocket alignment and chain sag.
- CLO#7: Describe the function of spur gear drives. Define gear pitch, circle and pitch diameter. Calculate shaft and torque speeds. Spur gear operation and installation. Calculate backlash. Perform gear analysis.
- CLO#8: Describe multi-shaft drives. Calculate the speed and torque output. Explain gear rotation alignment and installation. Name types of couplings. Perform alignment and installation.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-3x series), scratch paper for calculations/notes, pen or mechanical pencil, 3-ring

binder (required).

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MEC 149 - Electrical Motor Control

4 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or higher-level math

Recommended Prerequisite(s):

MFG 210

Course Description: Introduces the fundamentals of electric relay control of AC electric motors found in industrial and commercial manufacturing applications. Students will gain an understanding of the operation, installation, design, and control of AC electric motor control circuits, transformers, ladder logic controls, and control relays for many common applications. Students will also develop skills in interpreting schematics, system design, motor start/stop circuits, and motor sequence control. In addition, students will be introduced to systems troubleshooting, reversing motor controls, automatic input devices and basic timer controls. Students will continue to develop skills in interpreting schematics, system design, motor start/stop circuits, and motor sequence control. Safety is emphasized throughout, highlighting motor safety, lockout/ tagout and safety interlocks.

Course Learning Outcomes:

- CLO#1: Demonstrate proper procedures for personal protection equipment (PPI), and components safety when building and troubleshooting basic motor control applications.
- CLO#2: Demonstrate proper operation of AC electrical motor control components (transformers, relays, and starters) and test equipment including digital multi meters (DMMs), and AC power supplies.
- CLO#3: Demonstrate applied knowledge of AC electrical terminology and theory including calculating voltage, current, resistance and power distribution in series, parallel and series/parallel circuits as applied to electric motor control.
- CLO#4: Demonstrate industry-relevant skills including how to operate, install, design, and troubleshoot AC electric motor control circuits for various applications. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-36X is recommended), scratch paper for calculations/notes, pen or mechanical pencil.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MEC 150 - PLC Motor Control

3 Credit(s)

Prerequisite(s):

Approval of Instructor

Course Description: Covers programmable logic controllers (PLCs) in programming and control of AC electric motors found in industrial, commercial, and residential applications. Hands-on training using the Amatrol Motor Control System 85-MT5 allows learners to gain understanding of the operation, installation, design, and troubleshooting of AC electric motor control circuits and many common applications. Students develop skills in interpreting schematics, ladder logic diagrams, system design, motor start/stop circuits, motor sequence control, reversing motor control and motor jogging. Safety is emphasized throughout, highlighting motor safety, lockout/tagout and safety interlocks.

Course Learning Outcomes:

- CLO#1: Demonstrate a working knowledge of programmable logic theory, applications, and functions. Calculate and convert through various number systems and codes.
- CLO#2: Demonstrate monitoring input and output operations using the PLC software to control sequencing and timing.
- CLO#3: Demonstrate Motor Control, Interlock Process, and Seal-In Programming Control when developing PLC coding for applications. (ILO: Critical Thinking)
- CLO#4: Document functions and operation through proper data collection and troubleshooting procedures using explanatory descriptions (verbal and written) that meet laboratory standards.
- CLO#5: Write and interpret PLC programming code. Develop ladder logic, flowcharts, and pseudocode that reflect function, time, and process for developing PLC programming code.
- CLO#6: Demonstrate safety practices in the work place including personal protection, equipment, component (ESD) and ROHS compliant standards for leadless and green processes for electronics manufacturing.

Typical Required and Recommended Equipment and Materials: Required: Mechanical pencil, graphing calculator (TI-30x or equivalent) and graph paper. Recommended: Digital multimeter (DMM). Boe-Bot from Parallax and accompanying software for programming

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MEC 151 - Programming PLCs I

3 Credit(s)

Prerequisite(s):

MEC 150 or approval of Instructor.

Course Description: Programming PLC's I is the first of a two course series in which students

learn PLC (Programmable Logic Controller) programming, operation, and applications used in industry. This course covers a wide variety of program commands, ranging from timers and contacts, stepper motor control, and PWM control that will quickly develop relevant and critical skills to be job ready in modern industry environments.

Course Learning Outcomes:

- CLO#1: Demonstrate a working knowledge of digital logic theory, devices, and PLC systems. Calculate and convert through various number systems and codes.
- CLO#2: Demonstrate operation of PLC system and programming operations and memory organization.
- CLO#3: Create a project with Compact Logix and describe how to configure the I/O modules to communicate with the processor to run outputs.
- CLO#4: Document program function using ladder logic, truth table, oral to written instructions that will be used to develop a PLC project.
- CLO#5: Demonstrate and develop PLC projects to control motors including seal-in programming, interlock functions, and discrete control of variable speed drives. (ILO: Critical Thinking)
- CLO#6: Create PLC projects that use control instructions, math & logic instructions, event sequencing, motor and process functions.
- CLO#7: Apply Factory Talk Software to monitor and interact with automated systems. View and interact for alarm conditions, publish to mobile devices, and manage human machine interactions (HMIs).
- CLO#8: Demonstrate a working knowledge of analog inputs and outputs including variable output applications (e.g. PWM, Stepper Motors, and Absolute v Relative modes). Describe how to configure, enter, and operate a PLC project that scales a particular application.
- CLO#9: Demonstrate safety practices in the work place including personal protection, equipment, component (ESD) and ROHS compliant standards for leadless and green processes for electronics manufacturing.

Typical Required and Recommended Equipment and Materials: Required: Mechanical pencil or pen, scientific calculator (TI-30x or equivalent), USB thumb drive (4gb minimum). Recommended: Digital multimeter (DMM)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MEC 154 - Computer Control

3 Credit(s)

Recommended Prerequisite(s):

MEC 149

Course Description: Begins by introducing programmable controller (PLC) topics like PLC orientation, operation, and programming languages, and then moves on to more advanced topics like basic PLC programming, PLC motor control, and event sequencing. Specifically within this curriculum, learners will study topics including: the function of seven types of processor files; how

input instructions can be controlled by output instructions; and the operation of a basic multiple actuator sequence program.

Course Learning Outcomes:

CLO#1: Describe PLC components and explain PLC ladder logic.

CLO#2: Create a PLC project using Rockwell automation software and write PLC program code. (ILO: Critical Thinking)

CLO#3: Define event driven sequencing and operate a continuous cycle actuator reciprocating program.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-3x series), scratch paper for calculations/notes, pen or mechanical pencil, 3-ring binder.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MEC 210 - Variable Frequency AC Drives

2 Credit(s)

Prerequisite(s):

MEC 149

Course Description: Teaches variable frequency AC solid-state control of 3-phase electric motors. Learners develop knowledge in the operation, installation, performance analysis, troubleshooting, and design of AC solid state control using 2-wire, 3-wire, manual, and open-loop speed control. Highlights motor jogging and dynamic braking as well as programmable acceleration and deceleration.

Course Learning Outcomes:

CLO#1: Identify variable speed AC drive systems and operate a motor using a programming keyboard.

CLO#2: Describe how frequency affects speed on an AC Induction motor. Demonstrate proper programming of a VFD.

CLO#3: Explain ramping, special acceleration and braking using variable AC drive.

CLO#4: Troubleshoot parameter and fault code. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-3x series), scratch paper for calculations/notes, pen or mechanical pencil, 3-ring binder.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

MEC 226 - Pneumatics II

2 Credit(s)

Prerequisite(s):

MEC 125

Course Description: Builds on the basic pneumatics skills to teach intermediate pneumatic components and system applications. Learners will gain industry-relevant skills related to these new topics including operation, installation, performance analysis, maintenance, and design. These topics include cam-operated valves, cylinder sequencing with cam valves, cylinder deceleration circuits, pilot-operated DCVs, shuttle valves, air logic components, air logic design, air filters, filter selection, filter maintenance, water removal techniques, air dryers, after-coolers, water traps, air lubricators, and component maintenance.

Course Learning Outcomes:

CLO#1: Design a pneumatic Circuit to sequence two cylinders.

CLO#2: Connect and operate an Air Logix circuit to control a reciprocating cylinder.

CLO#3: Disassemble, inspect and service a pneumatic cylinder. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-3x series), scratch paper for calculations/notes, pen or mechanical pencil, 3-ring binder (required).

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

MEC 227 - Pneumatics III

2 Credit(s)

Prerequisite(s):

MEC 226

Course Description: Along with advanced pneumatic principles students will also learn about pneumatic cylinder loads, cylinder applications, quick exhaust valves, motor loads, air bearings, component sizing, air compressor types, air compressor operation, flow measurement, compressor performance, and pneumatic component maintenance.

Course Learning Outcomes:

CLO#1: Explain how a regulator and a 3-way valve can be used in a double-acting cylinder application.

CLO#2: Describe converting between units of water column and units of water pressure.

CLO#3: Describe two methods of measuring air compressor flow rates. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-3x series), scratch paper for calculations/notes, pen or mechanical pencil, 3-ring

binder (required).

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

MEC 228 - Pneumatic Troubleshooting

3 Credit(s)

Prerequisite(s):

MEC 226

Course Description: Covers major topics like troubleshooting air preparation, actuators, valves, vacuum systems, and pneumatic systems. Specifically, learners will study objectives such as pressure test points; symptoms and causes of regulator failure; inspection and troubleshooting a vacuum cup; and troubleshooting zero pressure.

Course Learning Outcomes:

CLO#1: Define pneumatic troubleshooting and explain its importance.

CLO#2: Identify schematic symbols of a pneumatic system.

CLO#3: Troubleshoot a pneumatic cylinder using an in-circuit test. (ILO: Critical Thinking)

CLO#4: Demonstrate proper safety practices in the lab and workplace.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-3x series), scratch paper for calculations/notes, pen or mechanical pencil, 3-ring binder.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term per term, not to exceed (72) hours per term.

MEC 231 - Hydraulics II

4 Credit(s)

Prerequisite(s):

MEC 130

Course Description: Builds on basic hydraulic skills teaching hydraulic components and system applications. Students will learn industry-relevant skills related to new topics including operation, installation, performance analysis and design. These topics include accumulator sizing, system design, circuit applications, component operation/installation, pilot-operated directional control valves (DCVs), two-stage directional control valves, cam-operated directional control valves (DCVs), DCV spool center types and applications, cylinder types and mountings, pressure-compensated flow control valves, pilot-operated check valves, direct-operated relief valves, non-compensated flow control valves, rapid traverse slow feed circuits, cylinder sequencing, remote

pressure control, pump unloading circuits, and p-port check valves.

Course Learning Outcomes:

CLO#1: Describe and explain the terms used to specify hydraulic DCVs. Describe the function of two positions, cam and pilot operated DCVs.

CLO#2: Identify regeneration, pressure-compensated flow control valves.

CLO#3: Describe the function of relief valves, check valves and flow control valves.

CLO#4: Explain pressure port check valve and pilot-operated valve applications. List accumulator circuits, sizing and applications. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: : Scientific calculator (Texas Instrument TI-3x series), scratch paper for calculations/notes, pen or mechanical pencil, 3-ring binder (required).

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MEC 232 - Hydraulics III

2 Credit(s)

Prerequisite(s):

MEC 231

Course Description: Adds to the basic and intermediate hydraulic skills teaching advanced applications. Students will learn industry-relevant skills related to these new topics including operation, installation, performance analysis, maintenance, and design. These topics include heat exchangers, reservoirs, fluid conductors, fluid conditioning, filtration, motor performance, pump performance, system design, and maintenance.

Course Learning Outcomes:

CLO#1: Demonstrate selecting a hydraulic motor for a given application. (ILO: Critical Thinking)

CLO#2: Calculate the theoretical pump flow rate for a given displacement.

CLO#3: Describe the function, the construction and sizing of a reservoir.

Typical Required and Recommended Equipment and Materials: Required equipment: Scientific calculator (Texas Instrument TI-3x series), scratch paper for calculations/notes, pen or mechanical pencil, 3-ring binder.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

MEC 233 - Hydraulic Troubleshooting

4 Credit(s)

Prerequisite(s):

MEC 231

Course Description: Teaches hydraulic troubleshooting by providing a hands-on learning station that models a real world hydraulically-powered machine and includes over 40 faults that can be inserted into the system.

Course Learning Outcomes:

- CLO#1: Define hydraulic troubleshooting and explain its importance.
- CLO#2: Identify schematic symbols of a hydraulic system.
- CLO#3: Troubleshoot a cylinder using an in-circuit test. (ILO: Critical Thinking)
- CLO#4: Demonstrate proper safety practices in the lab and workplace.

Typical Required and Recommended Equipment and Materials: Scientific Calculator (Texas Instrument TI-3x series), scratch paper for calculations/notes, pen or mechanical pencil, 3-ring binder

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MEC 236 - Mechanical Drives II

4 Credit(s)

Prerequisite(s):

MEC 135

Course Description: Covers heavy duty V-belt drives including conventional, multiple, wedge, and variable speed V-belt drives. This course describes V-belt selection and maintenance by covering V-belt size specification, component identification, and troubleshooting. Learners will develop fundamental knowledge of synchronous belt drives, lubrication concepts, precision shaft alignment, and coupling. Also covered is heavy duty chain drives which describes silent chain drives, multiple strand systems, chain selection, chain lubrication, chain maintenance and troubleshooting.

Course Learning Outcomes:

- CLO#1: Demonstrate the ability to install heavy duty V-belt drives, including conventional, multiple, and variable speed. V-belt maintenance, specification, identification, and selection. Identify synchronous belt drives.
- CLO#2: Describe the six functions of lubrication including oils, greases, and lubrication maintenance.
- CLO#3: Perform precision shaft alignment. Describe the function and installation of elastomeric, flange, chain and grid and gear couplings. Perform coupling maintenance.
- CLO#4: Explain shaft specification and types of bearings, couplings and applications. Show competency in shaft alignment.

CLO#5: Describe the operation and function of four types of sprockets and list an application of each, including silent and multiple-strand chain drives.

CLO#6: Perform proper chain selection. Perform chain lubrication maintenance and troubleshooting. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-3x series), scratch paper for calculations/notes, pen or mechanical pencil, 3-ring binder (required).

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MEC 238 - Mechanical Drives III

4 Credit(s)

Prerequisite(s):

MEC 236

Course Description: Includes the lubrication, selection, maintenance and troubleshooting of plain ball bearings. Introduces antifriction bearings by describing the two types and teaching the fundamental skills of how to identify, mechanically install, thermally install and troubleshoot those bearings. Also covered is gasket and seals such as O-ring seal, lip seal and mechanical seal, and advanced gear drives such as helical gear drives, right angle gear drives, speed reducers, and gear drive selection and maintenance.

Course Learning Outcomes:

CLO#1: Demonstrate the ability to install solid plain, ball and roller bearings. Perform lubrication and selection of solid, plain and roller bearings.

CLO#2: Describe antifriction bearing selection and maintenance. Explain antifriction bearing maintenance and troubleshooting.

CLO#3: Describe gaskets, O-rings, lip seals and mechanical seals.

CLO#4: Interpret advanced gear drives, helical gear drives and right angle gear drives. Describe the function of speed reducers and speed reducer maintenance.

CLO#5: Explain how to calculate diametrical pitch. Describe gear drive selection, gear lubrication, maintenance, and troubleshooting. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-3x series), scratch paper for calculations/notes, pen or mechanical pencil, 3-ring binder (required).

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MEC 251 - Programming PLC's II

3 Credit(s)

Prerequisite(s):

MEC 150 or Instructor approval

Course Description: Programming PLC's II is the second of a two-course series in which students learn PLC (Programmable Logic Controller) programming, operation, and applications used in industry. This course continues with programming commands, ranging from timers and contacts, stepper motor control, and PWM control that will quickly develop relevant and critical skills to be job ready in modern industry environments. Students will also be introduced to application circuits and components for thermostatic temperature control, analog temperature control, reversing constant-speed motor control, variable speed motor control with feedback, and stepper motor homing and commissioning. These circuits include basic and advanced applications starting with discrete I/O projects and extending to projects involving analog I/O. These projects enhance a student's experience because they can actually see how a program controls real systems.

Course Learning Outcomes:

- CLO#1: Demonstrate a knowledge of digital logic theory, devices, and PLC systems and codes.
- CLO#2: Demonstrate PLC system and programming operations.
- CLO#3: Create a project and configure the I/O modules for processor communication.
- CLO#4: Document program function using ladder logic.
- CLO#5: Demonstrate and develop PLC projects to control motors. (ILO: Critical Thinking)
- CLO#6: Demonstrate use control instructions, math & logic.
- CLO#7: Demonstrate a working knowledge of analog inputs and outputs including variable output applications. Demonstrate proper PPE and safety practices in the work place.

Typical Required and Recommended Equipment and Materials: Required: Mechanical pencil or pen, scientific calculator (TI-30x or equivalent), USB thumb drive (4gb minimum). Recommended: Digital multimeter (DMM)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MEC 254 - PLC Troubleshooting

3 Credit(s)

Prerequisite(s):

MEC 251

Course Description: Covers PLC (Programmable Logic Controller) programming, operation, and applications used in industry, as well as PLC troubleshooting skills, such as PLC input and output testing, software testing, and application troubleshooting. This course covers a wide variety of program commands, ranging from timers and contacts, stepper motor control, and PWM control that will quickly develop relevant and critical skills to be job ready in modern industry environments.

Course Learning Outcomes:

- CLO#1: Describe two levels of troubleshooting and give an application of each.
- CLO#2: Describe five methods of PLC troubleshooting and give an application of each.
- CLO#3: Troubleshoot a PLC routine that performs an on/off control using an analog input.
(ILO: Critical Thinking)
- CLO#4: Describe how to troubleshoot a stepper motor.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-3x series), scratch paper for calculations/notes, pen or mechanical pencil, 3-ring binder.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

Mechanical Engineering Technology

MET 101 - Mechanical Drafting**3 Credit(s)**

Course Description: Introduces manual mechanical drafting techniques. Focuses on drawing layout, dimensioning standards, and sectional views through a series of practical problems.

Course Learning Outcomes:

- CLO#1: Identify the proper use of drafting tools and material.
- CLO#2: Apply graphic symbols, line construction, and basic blue print drafting rules for presentation.
- CLO#3: Produce accurate and legible blueprint drawings.
- CLO#4: Recreate images based on visualizations to communicate an idea using freehand sketching presentations. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Pencils: 4H, 2H, HB (2 of each kind), Triangular Square, Triangles: 45, 30-60 degrees, Eraser, Erasing Shield, Desk Brush, Templates (large and small circles), Bow Compass (8 or 9"), one roll masking tape and a lettering guide.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a required state minimum of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MET 104 - Machine Shop Math

3 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or designated placement.

Course Description: Covers calculation, layout, and procedure standards in applied topics in manufacturing and machining technologies. An understanding of mathematical concepts is stressed in all topics ranging from general arithmetic processes to oblique trigonometry, compound angles and numerical control.

Course Learning Outcomes:

- CLO#1: Apply mathematics in a variety of manufacturing and engineering applications.
- CLO#2: Correctly solve analytic geometry problems involving trigonometry.
- CLO#3: Apply deductive reasoning to verify mathematical arguments. (ILO: Quantitative Literacy and Reasoning)

Typical Required and Recommended Equipment and Materials: Graphing calculator (TI-83, TI-83 Plus, or TI-84 Plus), graph paper, pencil, paper, and notebook.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MET 105 - Blueprint Reading - Mechanical

3 Credit(s)

Prerequisite(s):

MTH 20 or designated placement.

Recommended Prerequisite(s):

MTH 102CT or designated placement

Course Description: Introduces mechanical blueprints using multi-view projection, sectional views, auxiliary views, title blocks, and drawing formats which are the basis for all graphical communication in the manufacturing industry today. Knowledge of the techniques used on blueprints is necessary in the industry whenever descriptions of size, shape, and arrangement are used to produce, service, or sell a product. This course also introduces students to blueprint and drawing techniques which will be built upon with additional modules in the program. Dual numbered as WLD 104.

Course Learning Outcomes:

- CLO#1: Evaluate the basic elements of industry blueprints.
- CLO#2: Interpret basic dimensioning standards within a blueprint. (ILO: Critical Thinking)
- CLO#3: Interpret auxiliary views from a machinist perspective.
- CLO#4: Interpret standard-drawing title block notes and drawing formats used in industry.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-36X is recommended), scratch paper for calculations, pen and pencils.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MET 111 - CAD I Mechanical Autodesk Inventor

3 Credit(s)

Prerequisite(s):

CIS 120 (formerly offered as CS120) or documented proficiency with the past ten years.

Corequisite(s): MET 101 and MET 105 are recommended

Course Description: Introduces students to the basic concepts of computer aided design (CAD) and drafting. These include but are not limited to: set-up workspace, sketches, features, and drawings. Working in both two- and three-dimensions as well as in solids, students will learn the operating system, command codes, file menu, and symbol library of an industry standard, computer aided design and drafting system.

Course Learning Outcomes:

CLO#1: Produce simple sketches and extrusions.

CLO#2: Accurately edit existing solid models.

CLO#3: Design functional part models for assemblies. (ILO: Critical thinking)

CLO#4: Virtually construct a functional presentation of an assembly.

Typical Required and Recommended Equipment and Materials: Flash drive, 16 Gig recommended.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MET 112 - CAD II Mechanical Autodesk Inventor

3 Credit(s)

Prerequisite(s):

MET 111

Course Description: This course provides the foundation for a hands-on course that covers basic and advanced Autodesk Inventor features used to create, edit, document, and print parts and assemblies. Learners will be able to assemble advanced models through real world exercises moving the student toward an industry recognized certificate in 3D CAD design.

Course Learning Outcomes:

- CLO#1: Demonstrate sketching, constraining and dimensioning.
- CLO#2: Produce functional top down assemblies.
- CLO#3: Compose and document functional assemblies. (ILO: Communication)
- CLO#4: Create functional parts using Advanced Modeling Techniques.

Typical Required and Recommended Equipment and Materials: Flash drive, 8 Gig recommended.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MET 113 - CAD III Mech Autodesk Inventor

3 Credit(s)

Prerequisite(s):

MET 112, MET 111

Course Description: Prepares students for the Autodesk Inventor Certified User Exam. Course is designed for users who are already familiar with Inventor. It provides a series of hands on exercises and tutorial in the use of Inventor to help you prepare for the Autodesk Inventor Certified Users Exam. The text covers all the exam objectives. Each topic is covered in detail, and then is followed up with tutorials and quizzes to reinforce the material covered.

Course Learning Outcomes:

- CLO#1: Identify industry reasons to earn the Autodesk Certified User Certification. (ILO: Information Literacy)
- CLO#2: Apply CAD to workflow challenges in Inventor.
- CLO#3: Troubleshoot and correct assembly and part model discrepancies.
- CLO#4: Demonstrate Certification Exam readiness.

Typical Required and Recommended Equipment and Materials: Flash drive, 8 Gig minimum recommended.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) lecture hours per term.

MET 121 - CAD I Mechanical SolidWorks

3 Credit(s)

Prerequisite(s):

CIS 120 (formerly offered as CS120) or documented proficiency within the past ten years

Corequisite(s): MET 101 and MET 105 are recommended

Course Description: First in a three-term series introducing students to the basic concepts of computer aided design (CAD) and drafting. Course studies will be completed using SolidWorks CAD software. Studies include set-up workspace, sketches, features, and drawings. Working in both two- and three-dimensions as well as in solids, students will learn the operating system, command codes, file menu, and symbol library of an industry standard, computer aided design and drafting system.

Course Learning Outcomes:

CLO#1: Create 3D solid models according to Solid Works certification standards. (ILO: Critical Thinking)

CLO#2: Apply ASME Y14 standards in the preparation of technical mechanical drawings.

CLO#3: Create 3D assemblies incorporating multiple solid models.

Typical Required and Recommended Equipment and Materials: USB Flash drive, 8 Gig recommended. Students enrolled in this course will be given instructions to download the basic student version of SolidWorks software for use at home. Students wishing to purchase advanced student version of software need to inquire

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MET 122 - CAD II Mechanical SolidWorks

3 Credit(s)

Prerequisite(s):

MET 121 or Instructor approval

Course Description: Second in a three-term series, this course continues with the basic concepts of computer aided design (CAD) and drafting. Course studies will be completed using SolidWorks CAD software. Studies include set-up workspace, sketches, features and drawings. Working in both two- and three dimensions as well as in solids, students will learn the operating system, command codes, file menu, and symbol library of an industry standard, computer aided design and drafting system. Focus will be on sheet metal, weldments, and gears and gear-mates as used in manufacturing.

Course Learning Outcomes:

CLO#1: Apply ASME Y14 standards in the preparation of technical mechanical drawings.

CLO#2: Analyze and adapt top down design techniques.

CLO#3: Identify modeling tools to produce sheet metal products.

CLO#4: Determine solutions to design errors in sketches and parts. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: USB Flash drive, 8 Gig recommended. Students enrolled in this course will be given instructions to download the basic student version of SolidWorks software for use at home. Students wishing to purchase advanced student version of software need to inquire

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MET 123 - CAD III Mechanical SolidWorks**3 Credit(s)****Prerequisite(s):**

MET 122 or Instructor approval

Course Description: As the third course in a three-term series, this is an elective in the Manufacturing Engineering Technology program. Students will use the techniques learned in MET 121 and MET 122 to reverse engineer an advanced part/project, creating solid models and modifying those models as needed; and the creation of assemblies, and industry standard mechanical drawings. Coursework will focus on continuing to develop techniques in preparing industry standard accurate, legible drawings and solid models. Students will have the opportunity to take the SolidWorks CSWA (Certified SolidWorks Associate) exam at the end of the term.

Course Learning Outcomes:

CLO#1: Identify mathematical data using existing sources to create accurate 3D part models.

CLO#2: Apply correct software tools to solve given problems.

CLO#3: Identify mathematical data using existing sources to create accurate 3D part models and assemblies.

CLO#4: Apply modeling, drafting, and assembly practices to pass the Certified Solidworks Associate (CSWA) certification exam. (ILO: Quantitative Literacy and Reasoning)

Typical Required and Recommended Equipment and Materials: USB Flash drive, 8 Gig recommended. Students enrolled in this course will be given instructions to download the basic student version of SolidWorks software for use at home. Students wishing to purchase advanced student version of software need to inquire

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MET 160 - Introduction to Metallurgy**3 Credit(s)****Prerequisite(s):**

MTH 20 or designated placement.

Recommended Prerequisite(s):

MFG 101

Course Description: Studies basic metallurgy as it relates to manufacturing processes. The course introduces the identification of ferrous and non-ferrous metals in the manufacturing industry. This course also covers mechanical and physical properties, powder metallurgy, heat treatment, alloying, crystalline structures, effects of machining, and testing processes.

Course Learning Outcomes:

- CLO#1: Identify basic components and manufacturing processes of carbon (ferrous) materials.
- CLO#2: Demonstrate safe and proper shop practices.
- CLO#3: Validate the usefulness of the tempering process.
- CLO#4: Differentiate between basic metallurgical compositions of steels and alloys.
- CLO#5: Identify proper application based on material composition. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Pen/pencil, notebook, USB flash drive

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture-lab hours per term, not to exceed (72) hours per term.

Manufacturing

MFG 101 - Introduction to Manufacturing

3 Credit(s)

Prerequisite(s):

MTH 20 or designated placement.

Course Description: This course is designed to develop an understanding of various manufacturing processes, materials, and possible career opportunities in manufacturing-related disciplines. The course includes an orientation to the use of Computer Aided design in manufacturing and various industry standard software programs. Students will learn about CAD, 3D slicing software, additive manufacturing procedures, CNC router and laser engraving.

Course Learning Outcomes:

- CLO#1: Demonstrate safe and proper shop practices.
- CLO#2: Design a project using 3-D CAD.
- CLO#3: Input design into slicing software for printing preparation.
- CLO#4: Create design and laser engrave final project. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MFG 102 - Machine Shop Basics

3 Credit(s)

Prerequisite(s):

MTH 20 or designated placement.

Course Description: This course is designed to introduce learners to the world of machining and gain basic skills for entry-level industry jobs. Students will develop an understanding of both hand and power tool usage as it pertains to Manufacturing. This course covers safety, fasteners, measurement, hand tools, basic bench work, hand-held power tools, vertical and horizontal band saw, and drill press. Course will be delivered through hands-on instruction emphasizing safety and proper operation through a series of projects.

Course Learning Outcomes:

CLO#1: Demonstrate safety when using hand and power tools.

CLO#2: Demonstrate proper planning and layout before operation of hand and power tool usage. (ILO: Critical Thinking)

CLO#3: Produce a functional bolt thread checker and punch.

Typical Required and Recommended Equipment and Materials: One pair of safety glasses or safety side shields if you wear prescription glasses.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MFG 116 - Metrology

3 Credit(s)

Course Description: Covers basic measurement, precision measurement, direct gauging, indirect gauging, and dimensional measurements using both the U.S. customary system and the SI metric system. Course content covers the study of quality assurance through measurements taken by mechanical, electronic and optical methods as related to industrial dimensional conformance requirements. Includes a combination of Web and face-to-face hands-on instruction for required labs.

Course Learning Outcomes:

CLO#1: Accurately calculate basic measurements of materials.

CLO#2: Estimate the measurement discrimination of different measuring tools.

CLO#3: Compare and contrast metric and imperial measuring.

CLO#4: Accurately measure products using outside micrometer. (ILO: Quantitative Literacy and Reasoning)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MFG 118 - Introduction to Prototyping

1 Credit(s)

Course Description: This course is designed to introduce students to the world of product creation. Students will get to work individually or as a team to create a product from idea to completion.

Course Learning Outcomes:

- CLO#1: Demonstrate safe and proper operation of 3D printers and laser cutter engraver.
- CLO#2: Work collaboratively and respectfully as a team member to prototype and complete a product. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#3: Justify the use of CAD in the design process.
- CLO#4: Build a functional prototype using all available resources.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MFG 121 - Machine Tool - Lathe I

4 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or designated placement, and MFG 102 and MFG 116

Course Description: First of a two-term series designed to develop both an understanding of manufacturing concerns and limitations of the engine lathe as well as developing the hands-on skills needed for machining jobs in manufacturing. This course covers basic manufacturing skills and machine tooling practices. Emphasizes safety, bench work, engine lathes, precision grinding, tool room operations, and production work through a series of projects.

Course Learning Outcomes:

- CLO#1: Demonstrate safe and proper usage of manual lathe turning.
- CLO#2: Accurately turn diameters and shoulders.
- CLO#3: Accurately calculate thread pitch designations.
- CLO#4: Manufacture a machinist hammer based on a blue print. (ILO: Quantitative Literacy and Reasoning)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MFG 122 - Machine Tool - Mill I

4 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or designated placement, and MFG 102, and MFG 116

Course Description: The first class in a two-part series to development both an understanding of manufacturing concerns and limitations of industry as well as developing the hands-on skills needed for machining jobs in manufacturing. This course continues and expands basic manufacturing skills and machine tooling practices. Continues emphasis on safety, bench work, vertical mills, precision grinding, tool room operations, and production work through a series of projects.

Course Learning Outcomes:

- CLO#1: Demonstrate safe and proper set up and usage of manual knee mill.
- CLO#2: Accurately scribe layout lines and saw material.
- CLO#3: Measure and accurately machine 1-2-3 blocks.
- CLO#4: Measure and accurately surface grind 1-2-3 blocks to parallel, perpendicular, and square. (ILO: Quantitative Literacy and Reasoning)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MFG 123 - Machine Tool - Lathe II

4 Credit(s)

Prerequisite(s):

MFG 121 or Instructor approval

Course Description: As the second of a two-term series designed to continue the development of both an understanding of manufacturing concerns and limitations of industry as well as developing the hands-on skills needed for machining jobs in manufacturing, this course continues and expands basic manufacturing skills and machine tooling practices. This class re-emphasizes safety, bench work, lathe work, vertical mill operations, precision grinding, tool room operations, and production work through completion of a project in a prototype production run using the multiple manufacturing processes.

Course Learning Outcomes:

- CLO#1: Demonstrate proper use of the manual machine lathe.
- CLO#2: Describe procedures to perform internal threading.
- CLO#3: Demonstrate precision fitment of parts produced on the engine lathe.
- CLO#4: Produce accurate and usable tools on the engine lathe. (ILO: Quantitative Literacy and Reasoning)
- CLO#5: Demonstrate safe and proper shop practices.

Typical Required and Recommended Equipment and Materials: Projects built for student's personal use must be funded by the student.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MFG 124 - Machine Tool - Mill II

4 Credit(s)

Prerequisite(s):

MFG 122 or Instructor approval.

Course Description: As the second of a two-term series designed to continue the development of both an understanding of manufacturing concerns and limitations of vertical mill as well as developing the hands-on skills needed for machining jobs in manufacturing, this course continues and expands basic manufacturing skills and machine tooling practices. This class re-emphasizes safety, bench work, lathe work, vertical mill operations, precision grinding, tool room operations, and production work through completion of a project in a prototype production run using the multiple manufacturing processes.

Course Learning Outcomes:

- CLO#1: Build a precise machinist vise using manual milling and lathe tools.
- CLO#2: Machine material into industry standard product using a blueprint.
- CLO#3: Accurately bring parts to tolerance using surface grinder. (ILO: Critical Thinking)
- CLO#4: Demonstrate safe and proper shop practices.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MFG 130 - Machine Shop Tooling

2 Credit(s)

Prerequisite(s):

MFG 116 or MFG 121

Course Description: This class walks learners through machine tooling, which is comprised of high-speed steel, carbide, carbide insert tooling, drills, taps and sharpening. All of which are consumables in nature.

Course Learning Outcomes:

- CLO#1: Identify tooling by specification.

- CLO#2: Evaluate appropriate tooling for a variety of materials. (ILO: Critical Thinking)
- CLO#3: Demonstrate proper use of drills in the machine shop.
- CLO#4: Accurately sharpen drills and cutting tools.
- CLO#5: Demonstrate proper safety practices in the lab.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

MFG 135 - Precision Grinding and Inspection

4 Credit(s)

Corequisite(s):

MFG 124

Course Description: This class walks learners through the finishing process of machine tooling. Using the surface grinder and precision inspection equipment to achieve proper dimension, surface finish, perpendicularity, flatness and parallelism.

Course Learning Outcomes:

- CLO#1: Describe use and care of the Granite surface plate.
- CLO#2: Demonstrate proper care and use of precision measuring equipment.
- CLO#3: Accurately surface grind a part to square and parallel. (ILO: Critical Thinking)
- CLO#4: Demonstrate proper dressing, sharpening, and balancing of surface grinder wheels.
- CLO#5: Demonstrate proper safety practices in the lab.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MFG 140 - CNC Controls I

3 Credit(s)

Prerequisite(s):

MTH 20 or designated placement.

Recommended Prerequisite(s):

MTH 102CT or MTH 60, and MFG 121

Course Description: This course is designed to develop an understanding as well as the capabilities and limitations of the Haas VF-Series Mill CNC Control. Basic functions and operating modes of the control are also covered as well as safety and maintenance.

Course Learning Outcomes:

- CLO#1: Demonstrate safety and proper set up of a CNC milling machine.
CLO#2: Demonstrate operational modes of the Haas controller.
CLO#3: Program an offset in the controller to compensate for dimensional change. (ILO: Information Literacy)
CLO#4: Analyze setup sheets to predict correct tools required to complete a project.
CLO#5: Apply course learning objectives to create a series of usable hand tools.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-36X is recommended), safety glasses.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MFG 141 - CNC Controls II

3 Credit(s)

Prerequisite(s):

MFG 140 and MFG 116

Course Description: Second of a two part series designed to further develop skills of different part setups and Tool work planes. Learners will develop hands-on machine interface skills along with single and multi-vise setups needed to support students entering the Manufacturing job market. This course covers safety care and maintenance of the machine, tool usage and tool life. Course will be delivered through hands on instruction emphasizing safety and proper operation through a series of projects.

Course Learning Outcomes:

- CLO#1: Demonstrate operational modes of the Haas controller.
CLO#2: Apply proper techniques for multiple vise operations.
CLO#3: Match blueprint specifications to machined part for proper application. (ILO: Critical Thinking)
CLO#4: Demonstrate proper shop safety practices.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MFG 199 - Special Studies - Manufacturing

Var. (1-3) Credit(s)

Prerequisite(s):

MTH 20 or designated placement.

Course Description: Provides specialized study for students in technical programs to areas linked to industry. State-of-the-art equipment is used for industry standard-level instruction. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate a personal adoption of the "Culture of safety".
- CLO#2: Create a plan to improve the identified skill set the student wishes to work on including: process details, WPS (if applicable), timeframe and practical assignment list.
- CLO#3: Document mechanical or manufacturing functions, data collection procedures, troubleshooting procedures, and descriptions (verbal and written) that meet specialized study standards. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Pen/pencil, notebook, scientific calculator (TI-3x or equivalent), safety glasses.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MFG 210 - AC DC Electrical Systems

3 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or higher-level math

Course Description: Introduces the fundamentals of AC/DC electrical systems used for power and control in the manufacturing industry as well as commercial, agricultural and residential applications. Students learn industry-relevant skills included in subject areas such as basic electrical circuits, electrical measurement, circuit analysis, inductance and capacitance, combination circuits, and transformers. Topics covered in subject areas will include but not be limited to: safety, electrical components and wiring, electronic test instruments, tools and fasteners, electrical units and nomenclature, and parallel / series-parallel circuits.

Course Learning Outcomes:

- CLO#1: Apply AC/DC electrical terminology and theory to voltage, current, and resistance in series and parallel circuits. (ILO: Critical Thinking)
- CLO#2: Demonstrate proper operation of electrical components and test equipment including analog meters, digital multi meters (DMMs) and DC power supplies.
- CLO#3: Design a circuit and apply the function to a real-world scenario
- CLO#4: Demonstrate safe and proper shop practices.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MFG 215 - Electrical Control Systems - Sensors

3 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or higher-level math, and MFG 210

Course Description: Introduces the functions of relay logic control circuits used in industrial, commercial and residential applications. Describes functions and application of functions covered in control logic including logic elements such as AND, OR, NOT, NOR, and NAND. Ladder diagrams are explained and learners connect, operate, and design a ladder diagram using one or more logic elements. Additional concepts include electro-pneumatic solenoid valves; sequencing control including relay operation, relay application, limit switch operation and application; and timers and advanced systems including time-delay relays, multiple cylinder control, and machine modes of operation. Electrical sensors teaches the operation of non-contact sensors and their applications in industry, such as sensing movement, detecting metal versus non-metal, and determining speed. This course covers sensors such as inductive, capacitive, magnetic reed, hall-effect and photoelectric.

Course Learning Outcomes:

CLO#1: Design a circuit to control two solenoid valves.

CLO#2: Design a control circuit that will perform a continuous-cycle, dual-cylinder synchronized operation, with automatic and manual modes. (ILO: Critical Thinking)

CLO#3: Select an electronic sensor and design a circuit given an application.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-36X is recommended), 3 ring binder, scratch paper for calculations/notes, pen or mechanical pencil.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MFG 220 - Machining Capstone

4 Credit(s)

Prerequisite(s):

WR 115 and second year standing in the program, or permission of Instructor.

Corequisite(s):

WR 115Q as required

Course Description: This course utilizes CAD for design, machining, manual and CNC along with 3d additive manufacturing to produce a viable product.

Course Learning Outcomes:

CLO#1: Develop a prototype product proposal.

- CLO#2: Apply design, machining, and material science to complete a product prototype. (ILO: Critical Thinking)
- CLO#3: Demonstrate safe and proper shop practices.
- CLO#4: Present and defend final prototype.

Typical Required and Recommended Equipment and Materials: Equipment and materials will vary for each individual student. Projects built for student's personal use will be funded by the student.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MFG 230 - Statistics and Quality Control

3 Credit(s)

Prerequisite(s):

MET 104 or MTH 112Z or higher-level math.

Course Description: Introduces ISO 9000 concepts of basic gauging, inspection, elementary statistics, and statistical process control (SPC).

Course Learning Outcomes:

- CLO#1: Acquires relevant goals-related activities, lists them in order of importance, allocates time to activities, and understands, prepares and follows schedule.
- CLO#2: Works cooperatively with others and contributes to group with ideas, suggestions, and effort to help others learn.
- CLO#3: Identifies need for numerical data, collects it from existing sources or creates it, and examines its relevance and accuracy. Employs computers organize, analyze, and communicate information. (ILO: Critical Thinking)
- CLO#4: Identify which set of procedures, tools or software will produce the desired results and describes the intent and the proper procedures for setting up numerical analysis of data.
- CLO#5: Using standard quality control tools to prevent, identify or solve production problems.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-36X is recommended), scratch paper for calculations/notes, pen or mechanical pencil.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture-lab hours per term, not to exceed (72) hours per term.

MFG 240 - Robotics and Computer Programming

3 Credit(s)

Prerequisite(s):

CIS 120 (formerly offered as CS120), or documented proficiency, and MTH 60 or MTH 102CT or higher-level math

Course Description: Provides an overview of robotic and automated systems technology. Students will be introduced to basic manufacturing techniques, robot terminology, differing types of automation, safety, basic robotic programming, interfacing robotic communications, automated work cells, and robotic applications. Robot operations and programming fundamentals will be applied by the students. Safety is emphasized throughout, highlighting operator and robot safety, lockout/tagout and safety interlocks.

Course Learning Outcomes:

CLO#1: Demonstrate proper personal safety while powering up and shutting down Pegasus robots.

CLO#2: Accurately program robot movements and end effector commands. (ILO: Critical Thinking)

CLO#3: Demonstrate CNC machine loading, work cell and robot application along with basic conveyor operation.

CLO#4: Describe how robots are applied to multiple machine loading cells and give an advantage.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-36X is recommended), 3 ring binder, scratch paper for calculations/notes, pen or mechanical pencil.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MFG 241 - CNC Programming - Mill - Haas

4 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or designated placement, and MFG 121 and MFG 140, or permission of Instructor.

Course Description: Covering basic Computer Numerical Control (CNC) programming of the Haas vertical mill as well as machine setup and operation, this course emphasizes manual data input programming and manual program editing. Provides training in the operation and part programming of the modern vertical machining center. Students learn safe manufacturing methods by completing a series of assignments using one of two Haas vertical machining centers. Students will gain experience reading, writing and editing part programs using industry standard G & M code programming.

Course Learning Outcomes:

CLO#1: Explain G and M codes in the action of machining.

CLO#2: Adapt Cartesian coordinates and G and M codes in programming two-dimensional milling.

CLO#3: Develop and refine programming techniques for accurate blueprint recreation. (ILO: Quantitative Literacy and Reasoning)

CLO#4: Apply tool length and cutter compensation to achieve blueprint specifications.

CLO#5: Demonstrate safe and proper shop practices while operating CNC equipment.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-36X is recommended), scratch paper for calculations/notes, pen or mechanical pencil.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MFG 242 - CAM I - Mastercam 2D

4 Credit(s)

Prerequisite(s):

MFG 241 or permission of Instructor.

Course Description: Introducing Mastercam CAD/CAM software with training to design parts and toolpaths for a modern CNC vertical machining center, with a primary focus on Haas machines. Emphasis is on proper geometry creation, manipulation and management of toolpaths, relevant utilities and C-hooks, terminology, and toolbar and menu functions. Safety and efficient machining will be stressed throughout the course.

Course Learning Outcomes:

CLO#1: Create 2d wire frames in Mastercam for milling toolpaths.

CLO#2: Apply Mastercam software tools to create machinable toolpaths per blueprint specs.

CLO#3: Apply programming techniques in Mastercam to produce G-Code. (ILO: Critical Thinking)

CLO#4: Apply proper set-up techniques to prepare machine for G-Code.

CLO#5: Demonstrate safe and proper shop practices while operating CNC equipment.

Typical Required and Recommended Equipment and Materials: Flash drive, 8 Gig minimum recommended.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MFG 243 - CAM II - Mastercam 3D

4 Credit(s)

Prerequisite(s):

MFG 242 or permission of Instructor.

Course Description: As the second of two courses for Mastercam CAD/CAM software, this course teaches students how to construct advanced 3D geometric models using geometric, free form, and derived surface types. All aspects of roughing and finishing machining cycles are covered with focus on safe and correct application and use of parameters.

Course Learning Outcomes:

- CLO#1: Create 3-D wireframes and surfaces in Mastercam for milling toolpaths.
- CLO#2: Apply toolpaths to 3-D models for machining purposes.
- CLO#3: Verify toolpaths in simulator to refine working models.
- CLO#4: Apply proper set-up techniques to CNC mill to produce programmed part. (ILO: Critical Thinking)
- CLO#5: Demonstrate safe and proper shop practices while operating CNC equipment.

Typical Required and Recommended Equipment and Materials: Flash drive, 8 Gig minimum recommended.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MFG 244 - CNC Programming - Lathe - Haas

3 Credit(s)

Prerequisite(s):

MFG 121 and MFG 140, and MTH 112Z or MET 104

Course Description: Covering basic Computer Numerical Control (CNC) programming of the Haas turning center (lathe) as well as machine set-up and operation, this course emphasizes personal and machine safety, manual data input programming, and manual program editing. Students learn safe manufacturing methods by completing a series of assignments using a Haas SL10 turning center. Students will gain experience reading, writing and editing part programs using industry standard G & M code programming.

Course Learning Outcomes:

- CLO#1: Associate G and M codes to the actions of the CNC lathe for programming purposes.
- CLO#2: Determine proper tooling needed to produce part.
- CLO#3: Demonstrate manual programming of the CNC lathebased on blueprint specifications. (ILO: Quantitative Literacy and Reasoning)
- CLO#4: Demonstrate proper safety practices in the lab.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-36X is recommended), scratch paper for calculations/notes, pen or mechanical

pencil.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MFG 245 - Mastercam 4th Axis Programming

3 Credit(s)

Prerequisite(s):

MFG 242 or permission of Instructor.

Course Description: Introduces students to the basic fundamentals of learning how to use Mastercam software to program 4th axis parts for Haas vertical machining centers.

Course Learning Outcomes:

- CLO#1: Demonstrate an introductory working knowledge of Haas rotary indexer usage and safe operation. (ILO: Critical Thinking)
- CLO#2: Demonstrate expanded critical thinking skills focusing on three-dimensional thinking.
- CLO#3: Demonstrate improved mathematics, as derived points must be calculated for project completion.
- CLO#4: Select appropriate cutting tools from Mastercam library to complete projects.
- CLO#5: Demonstrate skills necessary to create industry standard toolpaths for 4th axis programming.
- CLO#6: Demonstrate an proper safety practices in the lab and workplace.

Typical Required and Recommended Equipment and Materials: Scientific calculator, 8 GB USB drive minimum

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MFG 255 - Computer Integrated Manufacturing

4 Credit(s)

Prerequisite(s):

MFG 220 or permission of Instructor.

Course Description: A capstone project course that emphasizing the design-build process as it applies to the production, documentation, and implementation of a prototype production run using multiple manufacturing processes. Students work to design, manufacture, document, and evaluate all phases of a prototype production run for a part of their own design and creation.

Course Learning Outcomes:

CLO#1: Allocate resources, such as time, money, materials and human resources in order to manufacture prototype parts in an orderly fashion.

CLO#2: Application of interpersonal skills by students collaborating together towards accomplishment of a single goal.

CLO#3: Apply the proper technologies required to effectively produce the prototype part student has designed. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Materials and tooling for projects in this course that are designed and built for student's personal use must be funded by the student.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

MFG 262 - Lean Manufacturing**3 Credit(s)****Prerequisite(s):**

MFG 230 and MET 104 or MTH 112Z or higher-level math.

Course Description: Developing an understanding of, including the limitations of, lean manufacturing as it applies to the manufacturing industry and business, this course covers the basics of lean; TAKT time; value stream mapping; current and future state; KanBan systems; tracking and removing production wastes; running effective meetings; and team building.

Course Learning Outcomes:

CLO#1: Demonstrate the process/applications of Lean Manufacturing.

CLO#2: Apply Lean Manufacturing to create and examine value stream maps (current and future state).

CLO#3: Recognize errors and potential problems and use critical thinking skills to judge which sets of tools and/or procedures are required. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MFG 280 - CWE - Manufacturing Technology**Var. (1-12) Credit(s)****Prerequisite(s):**

Permission of CWE Instructor or Department Chair.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their program. Together, the Instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, students should complete this course within the last 2 terms of their certificate or degree. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate the ability to successfully complete the interview process. (ILO: Communication)
- CLO#2: Accurately meet deadlines.
- CLO#3: Demonstrate an acceptable work ethic as described in the CWE Work Ethic and Professional Presence Guidelines and student's learning objectives.
- CLO#4: Apply program knowledge, theories, principles, methods and technology. Gain new knowledge, skills, and experience while on the job.
- CLO#5: Make contacts which will help in obtaining employment.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per credit, not to exceed (36) hours per term.

MFG 291 - Laser Cutting and Engraving

3 Credit(s)

Prerequisite(s):

CIS 120 (formerly offered as CS120) or documented proficiency within the past ten years, and MTH 102CT or higher-level math.

Course Description: Introduces students on how to safely setup and operate a Trotec laser engraving machine using CorelDraw software as the print driver. A strong emphasis is placed on proper selection of materials that can be safely cut or engraved. Along with required curriculum, the course also includes time for student project work on two dimensional projects as well as three dimensional projects. This course is recommended for anyone interested in laser cutting and engraving for industry applications or artwork.

Course Learning Outcomes:

- CLO#1: Demonstrate proper safety practices in the lab.
- CLO#2: Identify appropriate materials for cutting and engraving with the Trotec laser.
- CLO#3: Calculate design process using CorelDraw as a print driver.
- CLO#4: Accurately focus a laser manually.
- CLO#5: Produce cut or engraved product on various materials. (ILO: Information Literacy)

Typical Required and Recommended Equipment and Materials: Safety glasses, 3 Ring Binder, Flash Drive (8 GB Recommended)

ACTI Code and Course Type

Length of Course:

A required state minimum of 60 and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

Massage Therapy

MT 100 - Massage I

2 Credit(s)

Prerequisite(s):

WR 117 or WR 115 or higher-level writing course, or designated placement,

WR 115Q as required, and

Acceptance into the Massage Therapy program.

Corequisite(s):

MT 100L, and BI 121, BI 121L or BI 231, BI 231L

Course Description: Provides instruction in the history, techniques, treatment procedures, structure of the body parts, and practical application of Swedish massage for each area. Students will learn about massage equipment, sanitation, professional hygiene, and client communication including client history, indications, and contraindications for massage. Objectives and benefits of massage will also be covered.

Course Learning Outcomes:

- CLO#1: Identify various massage techniques (Swedish, Myofascial, Deep Tissue, among others) while considering individual treatment goals and client responses.
- CLO#2: Analyze research findings regarding pain types, endangerment sites, contraindications, and historical influences in massage therapy.
- CLO#3: Use effective listening and communication skills to build rapport and assess client goals and requests. (ILO: Communication)
- CLO#4: Exhibit ethical decision-making and legal compliance in massage therapy practice, including managing transference and countertransference.
- CLO#5: Implement safe and effective body mechanics when using massage tables to accommodate client size and prevent therapist injury
- CLO#6: Maintain hygiene and infection control standards for personal care, the treatment room, and massage equipment.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) hours and a standard RCC delivery of (22) lecture hours, not to exceed (24) hours per term.

MT 100L - Massage I Lab

1 Credit(s)**Prerequisite(s):**

WR 117 or WR 115 or higher-level writing course, or designated placement,

WR 115Q as required, and

Acceptance into the Massage Therapy program.

Corequisite(s):

MT 100, and BI 121, BI 121L or BI 231, BI 231L

Course Description: Provides instruction in the history, techniques, treatment procedures, structure of the body parts, and practical application of Swedish massage for each area. Students will learn about massage equipment, sanitation, professional hygiene, and client communication including client history, indications, and contraindications for massage. Objectives and benefits of massage will also be covered.

Course Learning Outcomes:

CLO#1: Demonstrate various massage techniques, (Swedish, Myofascial, Deep Tissue, among others) while considering individual treatment goals and client responses.

CLO#2: Use proper functional draping procedures and safe, appropriate positioning techniques based on client needs.

CLO#3: Document a thorough client health history interview and determine client's expectations for the massage.

CLO#4: Implement self-care activities to support well-being for and prevent injury to the therapist. (ILO: Communication)

CLO#5: Demonstrate safe, effective body mechanics in the use of massage tables based on the size and shape of the client to prevent injury of the therapist.

CLO#6: Demonstrate good hygiene and standard sanitary precautions and practices for infection control for individuals, the environment and equipment.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (24) hours per term.

MT 101 - Eastern Bodywork Theory I**1 Credit(s)****Prerequisite(s):**

Acceptance into the Massage Therapy Career Pathway Certificate program.

Corequisite(s):

MT 101L

Course Description: Introduces fundamental methods and the philosophical background of Asian Bodywork utilizing Acupressure and Shiatsu.

Course Learning Outcomes:

CLO#1: Demonstrate knowledge of the 14 regular energy meridians their properties, source points and additional important points. (ILO: Communication)

CLO#2: Demonstrate knowledge of Yin and Yang Theory and Five Element Theory.

CLO#3: Demonstrate knowledge of activities that stimulate the meridians and acupoints.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 101L - Eastern Bodywork I Lab**1 Credit(s)****Prerequisite(s):**

Acceptance into the Massage Therapy Career Pathway Certificate program.

Corequisite(s):

MT 101

Course Description: Introduces fundamental methods and the philosophical background of Asian Bodywork utilizing Acupressure and Shiatsu.

Course Learning Outcomes:

CLO#1: Trace the 14 regular energy channels (meridians) in Chinese medicine. (ILO: Communication)

CLO#2: Demonstrate knowledge of and apply aspects of Yin and Yang Theory and Five Element Theory.

CLO#3: Locate and apply pressure to acupoints on themselves and others.

CLO#4: Demonstrate a basic shiatsu kata using professional hygiene, sanitation, verbal and nonverbal communication with the client prior to, during and after treatment.

CLO#5: Demonstrate safe, effective body mechanics in the use of shiatsu on a mat based on the size and shape of the client to prevent injury of the client and therapist.

CLO#6: Utilize proper sanitation processes.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (24) hours per term.

MT 102 - Massage II**2 Credit(s)****Prerequisite(s):**

MT 100, MT 100L and BI 121, BI 121L or BI 231, BI 231L

Corequisite(s):

MT 102L

Course Description: Emphasizes assessment, the philosophical and psychological aspects of massage, and working with special populations.

Course Learning Outcomes:

- CLO#1: Explain various massage techniques (Swedish, Myofascial, Deep Tissue, among others) while considering individual treatment goals and client responses.
- CLO#2: Use effective listening and communication skills to build rapport, gather health history and client preferences, explain treatment options, and establish informed consent.
- CLO#3: Utilize an exit interview to determine the efficacy of the treatment and modify future plan if needed.
- CLO#4: Utilize charting to document information about clients' health history, preferences, and goals. (ILO: Critical Thinking)
- CLO#5: Apply proprioceptive neuromuscular facilitation, massage for special populations, and chair massage in appropriate therapeutic settings. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

MT 102L - Massage II Lab

1 Credit(s)

Prerequisite(s):

MT 100, MT 100L and BI 121, BI 121L or BI 231, BI 231L

Corequisite(s):

MT 102

Course Description: Emphasizes assessment, documentation, the philosophical and psychological aspects of massage, and working with special populations.

Course Learning Outcomes:

- CLO#1: Follow industry standard expectations for hygiene, sanitization, and professionalism.
- CLO#2: Use effective listening and communication skills to build rapport, gather health history and client preferences, explain treatment options, and establish informed consent.
- CLO#3: Utilize an exit interview to determine the efficacy of the treatment, what to expect after the treatment and modify future plan if needed.
- CLO#4: Utilize charting to document information about clients' health history, preferences, and goals. (ILO: Critical Thinking)

- CLO#5: Conduct a physical evaluation of client including; posture, symmetry, compensatory movement patterns, range of motion using passive, active and resistive actions and palpation of tissue for the purpose of assessment to develop and modify the treatment plan.
- CLO#6: Apply proprioceptive neuromuscular facilitation, massage for special populations, and chair massage in appropriate therapeutic settings. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#7: Perform a one-hour full body massage connecting sequence and flow using Swedish and Myofascial techniques.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (22) hours per term.

MT 103 - Massage III

1 Credit(s)

Prerequisite(s):

MT 102, MT 102L and BI 121, BI 121L or BI 231, BI 231L

Corequisite(s):

MT 103L

Course Description: Prepares students for the written examination for state board licensure and practical demonstration interviews. Reflexology, side lying massage, massage tools, trigger point, deep tissue, and myofascial release techniques will be covered.

Course Learning Outcomes:

- CLO#1: Apply different massage techniques based on a client's medical history and physical condition, including posture, symmetry, compensatory movement patterns, range of motion, and palpation findings.
- CLO#2: Use effective listening and communication skills to build rapport, gather health history and client preferences, explain treatment options, and establish informed consent.
- CLO#3: Optimize treatment protocols for short- and long-term goals, adjusting plans based on changes in client's health and desired outcomes utilizing a variety of modalities to meet the client's needs (Swedish massage; massage tools; reflexology; deep tissue; myofascial release proprioceptive neuromuscular techniques/muscle energy techniques; trigger point therapy and stretching.) (ILO: Critical Thinking)
- CLO#4: Apply techniques along the muscles and fascial lines without excessive discomfort, ensuring client safety through communication and taking caution in endangerment areas.
- CLO#5: Apply current information and research to determine safe massage and bodywork treatment options for pathologies commonly encountered in the practice of massage and bodywork. Identify pain patterns, pain pathways and relevant pain control practices as they relate to application of massage/bodywork.
- CLO#6: Identify the components of a wellness plan and psychological defense mechanisms.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 103L - Massage III Lab

1 Credit(s)

Prerequisite(s):

MT 102, MT 102L and BI 121, BI 121L or BI 231, BI 231L

Corequisite(s):

MT 103

Course Description: Prepares students for the written examination for state board licensure and practical demonstration interviews. Reflexology, side lying massage, massage tools, trigger point, deep tissue, and myofascial release techniques will be covered.

Course Learning Outcomes:

CLO#1: Follow industry standard expectations for hygiene, sanitization, and professionalism.

CLO#2: Demonstrate the safe and effective use of massage equipment, supplies, draping, and bolstering across various massage techniques.

CLO#3: Perform a variety of massage techniques to meet clients' needs, including Swedish massage, reflexology, deep tissue, myofascial release, proprioceptive neuromuscular, trigger point, and stretching techniques. (ILO: Critical Thinking)

CLO#4: Demonstrate good communication skills with clients before, during, and after treatment that ensures consistent client care.

CLO#5: Conduct a professional exit interview to discuss session outcomes and assess treatment effectiveness.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (22) hours per term.

MT 104 - Kinesiology I - Upper Body

2 Credit(s)

Prerequisite(s):

WR 117 or WR 115, or higher-level writing course, or designated placement,

WR 115Q as required, and Acceptance into the Massage Therapy program.

Corequisite(s): MT 104L, and BI 121, BI 121L or BI 231, BI 231L

Course Description: Studies the branch of physiology that relates to the mechanics and anatomy of human movement. Students will learn the joints of the upper body and their actions,

the muscles that create specific actions, muscle attachment sites, how to palpate, shorten, and lengthen the muscles.

Course Learning Outcomes:

- CLO#1: Identify the major components of the musculoskeletal system of the upper body: bones; muscle attachment sites; origin; insertion and belly of the muscles; planes; axis of movements and actions of the joints. (ILO: Communication)
- CLO#2: Define physiological concepts of muscle contraction and compare different types of muscle contractions and their functional uses.
- CLO#3: Classify upper body joints by function and structure with knowledge of type and location.
- CLO#4: Identify the components of posture of the shoulder girdle, cervical and thoracic spine.
- CLO#5: Perform physical assessment (ROM and muscle testing of the upper body).

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

MT 104L - Kinesiology I - Upper Body Lab

1 Credit(s)

Prerequisite(s):

WR 117 or WR 115 or higher-level writing course, or designated placement,

WR 115Q as required, and Acceptance into the Massage Therapy program.

Corequisite(s): MT 104, and BI 121, BI 121L or BI 231, BI 231L

Course Description: Applies the principles that relate to the mechanics and anatomy of human movement. Students will learn the joints of the upper body and their actions, the muscles that create specific actions, muscle attachment sites, how to palpate, shorten, and lengthen the muscles.

Course Learning Outcomes:

- CLO#1: Identify the major components of the musculoskeletal system of the upper body: bones; muscle attachment sites; origin; insertion and belly of the muscles; planes; axis of movements and actions of the joints. (ILO: Communication)
- CLO#2: Classify upper body joints by function and structure with knowledge of type and location.
- CLO#3: Perform physical assessment (ROM and muscle testing of the upper body).

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MT 105 - Hydrotherapy and Tools

1 Credit(s)

Prerequisite(s):

MT 100, MT 100L

Corequisite(s):

MT 105L

Course Description: This course delves into the principles and techniques of hydrotherapy, utilizing various forms of water, including solid, liquid, and vapor. The course will cover essential safety issues and contraindications to ensure that hydrotherapy is administered safely and effectively. In addition to hydrotherapy, the course offers a thorough examination of various massage tools and their applications. Students will learn how to integrate these tools into their practice to enhance therapeutic outcomes. The course emphasizes hands-on practice, allowing students to develop practical skills and confidence in using both hydrotherapy techniques and massage tools.

Course Learning Outcomes:

CLO#1: Identify and describe thermal and physical properties of water (buoyancy, resistance, pressure, steam, and evaporation). (ILO: Communication)

CLO#2: Apply appropriate hydrotherapy techniques for pain control, injury rehabilitation, and relaxation based on clients' needs and treatment goals.

CLO#3: Perform the proper techniques for using massage tools safely and effectively.

CLO#4: Explain the benefits, contraindications, and best use cases for different massage tools.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 105L - Hydrotherapy and Tools Lab

1 Credit(s)

Prerequisite(s):

MT 100, MT 100L

Corequisite(s):

MT 105

Course Description: This lab provides comprehensive coverage of hydrotherapy modalities and instruction on the integration of massage tools into professional practice. Emphasizing hands-on experience, the course enables students to develop practical skills and confidence in utilizing both hydrotherapy techniques and massage tools. This course delves into the principles and techniques of hydrotherapy, utilizing various forms of water, including solid, liquid, and vapor. The course will cover essential safety issues and contraindications to ensure that hydrotherapy is

administered safely and effectively. In addition to hydrotherapy, the course offers a thorough examination of various massage tools and their applications. Students will learn how to integrate these tools into their practice to enhance therapeutic outcomes. The course emphasizes hands-on practice, allowing students to develop practical skills and confidence in using both hydrotherapy techniques and massage tools.

Course Learning Outcomes:

- CLO#1: Communicate contraindications and benefits before safely applying hot and cold hydrotherapy techniques. (ILO: Communication)
- CLO#2: Perform safe and appropriate application of massage tools. Including verbal explanation of benefits and contraindications.
- CLO#3: Perform safe and appropriate sanitation of tools, appropriate draping methods, and how to be prepared when working with hydrotherapy and various tools to provide safe care.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (24) hours per term.

MT 106 - Upper Body Massage Treatments

1 Credit(s)

Prerequisite(s):

MT 100, MT 100L and MT 108, MT 108L and BI 121, BI 121L or BI 231, BI 231L

Corequisite(s):

MT 106L

Course Description: Provides in-depth study of applications of massage on specific muscle groups, integrating musculoskeletal anatomy, pathology, acupressure, and basic Swedish massage techniques. Students will learn home exercise programs to assist their clientele.

Course Learning Outcomes:

- CLO#1: Apply current information and research to determine safe massage and bodywork treatment options for pathologies commonly encountered in the practice of massage and bodywork. Identify pain patterns, pain pathways and relevant pain control practices as they relate to application of massage/bodywork.
- CLO#2: Instruct and demonstrate appropriate range of motion (active, passive and active assistive ROM) and identify correct modalities for a home exercise plan.
- CLO#3: Demonstrate appropriate written communication summarizing health history, assessments, massage and bodywork treatment, goals, self-care, future sessions planned and referrals. Obtain signed legal written informed consent prior to massage treatment and securely maintaining the written records. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Colored, washable marking pens, colored pencils & a binder for handouts; Students will bring to each class two twin sheets and one pillowcase; Wear shorts and tank top or a swimsuit ; Regular attendance and class

participation; Cleanliness; Clipped nails

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 106L - Upper Body Massage Treatments Lab

1 Credit(s)

Prerequisite(s):

MT 100, MT 100L and MT 108, MT 108L and BI 121, BI 121L or BI 231, BI 231L

Corequisite(s):

MT 106

Course Description: Provides in-depth study of applications of massage on specific muscle groups, integrating musculoskeletal anatomy, pathology, acupressure, and basic Swedish massage techniques. Students will learn home exercise programs to assist their clientele.

Course Learning Outcomes:

CLO#1: Apply knowledge and demonstrate skills working with upper-body landmarks, muscle origins and insertions, actions, and muscles group actions, including range of motion of the joints of the upper body.

CLO#2: Identify pathophysiological terms and processes resulting from injury and disease as they relate to massage and bodywork.

CLO#3: Demonstrate the ability to acquire client's medical history and conduct a physical evaluation of client including posture, symmetry, compensatory movement patterns, range of motion and palpation assessment. Demonstrate effective verbal communication to develop a rapport, explain assessment findings and techniques to be used, including areas to be addressed and their intended outcomes. (ILO: Communication)

CLO#4: Apply massage and bodywork techniques to obtain intended physiological outcomes.

Typical Required and Recommended Equipment and Materials: Colored, washable marking pens, colored pencils & a binder for handouts; Students will bring to each class two twin sheets and one pillowcase; Wear shorts and tank top or a swimsuit ; Regular attendance and class participation; Cleanliness; Clipped nails

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (24) hours per term.

MT 107 - Lower Body Massage Treatments

1 Credit(s)**Prerequisite(s):**

MT 106, MT 106L

Corequisite(s):

MT 107L

Course Description: Continues the study of applications of massage on specific muscle groups, integrating musculoskeletal anatomy, pathology, acupressure, and basic Swedish massage techniques. Students will learn home exercise programs to assist their clientele.

Course Learning Outcomes:

- CLO#1: Apply current information and research to determine safe massage and bodywork treatment options for pathologies commonly encountered in the practice of massage and bodywork.
- CLO#2: Understand pain patterns, pain pathways, and relevant pain control practices as they relate to application of massage/bodywork.
- CLO#3: Instruct and demonstrate appropriate range of motion (active, passive and active assistive ROM) and identify correct modalities for a home exercise plan.
- CLO#4: Demonstrate understanding of appropriate written communication summarizing health history, assessments, massage and bodywork treatment, goals, self-care, future sessions planned and referrals. Obtain signed legal written informed consent prior to massage treatment and securely maintaining the written records. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Colored, washable marking pens, colored pencils & a binder for handouts; Students will bring to each class two twin sheets and one pillowcase; Wear shorts and tank top or a swimsuit; Regular attendance and class participation; Cleanliness; Clipped nails

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 107L - Lower Body Massage Treatments Lab**1 Credit(s)****Prerequisite(s):**

MT 106, MT 106L

Corequisite(s):

MT 107

Course Description: Continues the study of applications of massage on specific muscle groups, integrating musculoskeletal anatomy, pathology, acupressure, and basic Swedish massage techniques. Students will learn home exercise programs to assist their clientele.

Course Learning Outcomes:

- CLO#1: Identify and palpate the lower-body landmarks, muscle origins and insertions, actions, and applied muscles group actions. Includes range of motion to muscles of the lower body while applying massage/bodywork to obtain intended physiological outcomes. (ILO: Critical Thinking)
- CLO#2: Identify pathophysiological terms and processes resulting from injury and disease as they relate to massage and bodywork.
- CLO#3: Demonstrate the ability to acquire a client's medical history and conduct a physical evaluation of the client including; posture, symmetry, compensatory movement patterns, range of motion and palpation assessment.
- CLO#4: Demonstrate effective verbal communication to develop a rapport, explain assessment findings and techniques to be used, including areas to be addressed and their intended outcomes.

Typical Required and Recommended Equipment and Materials: Colored, washable marking pens, colored pencils & a binder for handouts; Students will bring to each class two twin sheets and one pillowcase; Wear shorts and tank top or a swimsuit ; Regular attendance and class participation; Cleanliness; Clipped nails

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MT 108 - Kinesiology II Lower Body**2 Credit(s)****Prerequisite(s):**

WR 117 or WR 115 or higher-level writing course, or designated placement,

WR 115Q as required, and

Acceptance into the Massage Therapy program.

Corequisite(s):

MT 108L, and BI 121, BI 121L or BI 231, BI 231L

Course Description: Studies the branch of physiology that relates to the mechanics and anatomy of human movement. Students will learn the joints of the lower body and their actions, the muscles that create specific actions, muscle attachment sites, how to palpate, shorten, and lengthen the muscles.

Course Learning Outcomes:

- CLO#1: Identify the major components of the musculoskeletal system of the lower body: bones; muscle attachment sites; origin; insertion and belly of the muscles; planes; axis of movements and actions of the joints. (ILO: Communication)

- CLO#2: Define physiological concepts of muscle contraction and compare different types of muscle contractions and their functional uses.
- CLO#3: Classify lower body joints by function and structure with knowledge of type and location.
- CLO#4: Identify the components of posture of the lumbo-thoracic region; pelvis and lower extremities; cervical and thoracic spine.
- CLO#5: Perform physical assessment (ROM and muscle testing of the lower body).

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

MT 108L - Kinesiology II Lower Body Lab

1 Credit(s)

Prerequisite(s):

WR 117 or WR 115 or higher-level writing course, or designated placement,

WR 115Q as required, and

Acceptance into the Massage Therapy program.

Corequisite(s):

MT 108 and BI 121, BI 121L or BI 231, BI 231L

Course Description: Applies the principles that relate to the mechanics and anatomy of human movement. Students will learn the joints of the lower body and their actions, the muscles that create specific actions, muscle attachment sites, how to palpate, shorten, and lengthen the muscles.

Course Learning Outcomes:

- CLO#1: Identify the major components of the musculoskeletal system of the lower body: bones; muscle attachment sites; origin; insertion and belly of the muscles; planes; axis of movements and actions of the joints. (ILO: Communication)
- CLO#2: Classify upper body joints by function and structure with knowledge of type and location.
- CLO#3: Perform physical assessment (ROM and muscle testing of the lower body).

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MT 109 - Pathology for Massage Therapists

4 Credit(s)**Prerequisite(s):**

BI 121, BI 121L or BI 231, BI 231L; and WR 115

WR 115Q as required

Corequisite(s):

BI 122, BI 122L or BI 232, BI 232L and BI 233, BI 233L

Course Description: Provides student with the definitions of syndromes, symptoms, prognostics, treatment concepts and contraindications for massage therapists.

Course Learning Outcomes:

- CLO#1: Demonstrate knowledge of the function of the body systems and signs and symptoms of health and non-health in each system of the body in terms of visual, auditory, olfactory, and palpation assessment.
- CLO#2: Describe inflammatory process including stages of soft tissue healing and relevance to massage and bodywork treatment plan.
- CLO#3: Demonstrate knowledge of pathophysiological terms, etiology, signs, symptoms, and complications of common pathologies and physiological processes that occur with injury and disease as they relate to massage and bodywork treatments.
- CLO#4: Explain when massage is indicated or contraindicated due to physiological and pathological conditions of the client and safe application of modalities that may be used for pathologies. Outline strategies for determining safe treatment options for individuals with pathologies.
- CLO#5: Research current information about physiological and pathological conditions. Prepare a presentation and communicate findings of research on pathologies. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Required: Bring your text book and paper for note taking as well as an interested and alert mind. Quizzes will be online at [RCC's Blackboard page](#).

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MT 111 - Sports Massage**1 Credit(s)****Prerequisite(s):**

MT 100, MT 100L and MT 108, MT 108L and BI 121, BI 121L or BI 231, BI 231L

Corequisite(s):

MT 111L

Course Description: This course will provide knowledge about how to prevent injury, improve performance, relieve sore muscles, speed recovery, and reduce stress. This course provides instruction and understanding of sports-related injuries and ailments. Hands on application will be required to demonstrate Sports massage techniques.

Course Learning Outcomes:

CLO#1: Demonstrate knowledge and understanding about athletic performance and related injury.

CLO#2: Demonstrate sport-specific massage on muscles involved with each sport. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Students should wear comfortable clothing (workout type clothing) and bring two sheets and a pillowcase to each class.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 111L - Sport Massage Lab

1 Credit(s)

Prerequisite(s):

MT 100, MT 100L and MT 108, MT 108L and BI 121, BI 121L or BI 231, BI 231L

Corequisite(s):

MT 111

Course Description: This course will provide knowledge about how to prevent injury, improve performance, relieve sore muscles, speed recovery, and reduce stress. This course provides instruction and understanding of sports-related injuries and ailments. Hands on application will be required to demonstrate Sports massage techniques.

Course Learning Outcomes:

CLO#1: Practice sports massage techniques on each other. Recognize goals and reactions of Sports massage techniques. (ILO: Communication)

CLO#2: Acquire client's medical history.

CLO#3: Demonstrate good hygiene by utilizing universal precautions. Maintain a clean facility and equipment.

Typical Required and Recommended Equipment and Materials: Students should wear comfortable clothing (workout type clothing) and bring two sheets and a pillowcase to each class.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 112 - Pregnancy - Child Massage

1 Credit(s)

Prerequisite(s):

Acceptance into a Massage Therapy program, or permission of Instructor.

Corequisite(s):

MT 112L

Course Description: Provides instruction in full-body massage that can be done in a side lying position for pregnant women. This technique is also ideal for people with neck and back problems. Massage techniques for infants and children will also be covered as well as the importance of touch for children with special needs.

Course Learning Outcomes:

CLO#1: Identify considerations and contraindications of pregnancy massage as well as safe application of modalities.

CLO#2: Identify and state benefits and goals of infant/child massage as well as considerations and contraindications. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Students should bring a set of sheets and lotion to each class.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 112L - Pregnancy-Child Massage Lab

1 Credit(s)

Prerequisite(s):

Acceptance into a Massage Therapy program, or permission of Instructor.

Corequisite(s):

MT 112

Course Description: Provides instruction in full-body massage that can be done in a side lying position for pregnant women. This technique is also ideal for people with neck and back problems. Massage techniques for infants and children will also be covered as well as the importance of touch for children with special needs.

Course Learning Outcomes:

CLO#1: Demonstrate safe application of massage techniques to use during pregnancy and with babies and children. (ILO: Critical Thinking)

CLO#2: Demonstrate the ability to safely position the pregnant client or infant to apply massage technique.

Typical Required and Recommended Equipment and Materials: Students should bring a set of sheets and lotion to each class.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MT 113 - Myofascial Release

1 Credit(s)

Prerequisite(s):

Acceptance into a Massage Therapy program, or permission of Instructor.

Corequisite(s):

MT 113L

Course Description: Teaches gentle and non-invasive techniques. Therapeutically works with restrictions in the fascia resulting in the reduction of pain and increased range of motion. Hands-on application is required.

Course Learning Outcomes:

CLO#1: Identify and explain the fundamental theory and principles of myofascial release and principles of basic craniosacral therapy holds.

CLO#2: Identify, explain and perform soft tissue mobilization techniques. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Bring 2 sheets & 1 pillowcase to each class. Women: Wear Shorts & Sports Bra, (Large necked -shirt or Tank top or 2-piece Swimsuit is okay) Men: Shorts and Large necked T-shirt.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 113L - Myofascial Release Lab

1 Credit(s)

Prerequisite(s):

Acceptance into a Massage Therapy program, or permission of Instructor.

Corequisite(s):

MT 113

Course Description: Teaches gentle and non-invasive techniques. Therapeutically works with restrictions in the fascia resulting in the reduction of pain and increased range of motion. Hands-on application is required.

Course Learning Outcomes:

CLO#1: Perform myofascial release stretches.

CLO#2: Identify, explain and perform soft tissue mobilization techniques.

CLO#3: Integrate myofascial release into current massage routine to meet client needs. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Bring 2 sheets & 1 pillowcase to each class. Women: Wear Shorts & Sports Bra, (Large necked -shirt or Tank top or 2-piece Swimsuit is okay) Men: Shorts and Large necked T-shirt.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MT 114 - Massage Therapy Study Skills Lab

1 Credit(s)

Prerequisite(s):

Acceptance into a Massage Therapy program, or permission of Instructor.

Course Description: Provides knowledge and hands-on instruction in the theory and massage techniques of new topics that have evolved. Through Instructor observation and guidance, students will gain the appropriate study skills and the awareness of the amount of time and effort required to obtain their academic goals.

Course Learning Outcomes:

CLO#1: Identify indications and contraindications for massage.

CLO#2: Apply safe application of massage techniques using specific strokes, appropriate draping and sanitation.

CLO#3: Communicate post treatment instructions and suggestions to client.

CLO#4: Identify bones and muscles and confidently use appropriate terminology. (ILO: Communication)

CLO#5: Describe the physiological benefits and effects of massage on the body.

Typical Required and Recommended Equipment and Materials: Students should wear comfortable clothing and bring two sheets, a pillowcase, oil, and a swimsuit or undergarments to each class.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

MT 115 - Trigger Point Therapy

1 Credit(s)

Prerequisite(s):

Acceptance into a Massage Therapy program, or permission of Instructor.

Corequisite(s):

MT 115L

Course Description: Provides history and instruction in trigger point therapy, the anatomical locations of the muscles that have trigger points, their pain referral patterns and techniques to treat them.

Course Learning Outcomes:

- CLO#1: Identify the history and theory of trigger point therapy. (ILO: Communication)
- CLO#2: Identify differing trigger point therapy techniques and when each is appropriate to incorporate into treatment.

Typical Required and Recommended Equipment and Materials: Students should wear comfortable clothing and bring two sheets and a pillowcase.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 115L - Trigger Point Therapy Lab

1 Credit(s)

Prerequisite(s):

Acceptance into a Massage Therapy program, or permission of Instructor.

Corequisite(s):

MT 115

Course Description: Provides instruction in the understanding of trigger points, the anatomical locations of the muscles that have trigger points and techniques to treat them. Hands-on application is required.

Course Learning Outcomes:

- CLO#1: Map out trigger points using anatomical charts and learn palpation to locate and apply trigger point therapy to relevant muscles in the body to provide relief of pain. (ILO: Critical Thinking)

CLO#2: Identify common areas of pain in the body and referred pain patterns utilizing sanitation, hygiene and draping for client comfort and safety.

Typical Required and Recommended Equipment and Materials: Students should wear comfortable clothing and bring two sheets and a pillowcase.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (24) hours per term.

MT 116 - Massage Exam Review

2 Credit(s)

Prerequisite(s):

Course is designed for students who have completed the required coursework and will be taking exams to become licensed by the Oregon Board of Massage Therapists.

Course Description: Prepares students for the Oregon Board of Massage Therapists Licensing Exams by reviewing the entire years' worth of study.

Course Learning Outcomes:

CLO#1: Review target areas that need to be studied for the Oregon Board of Massage Therapists Licensing, the MBLEx and NCE certification exams.

CLO#2: Build self-esteem by demonstrating new skills (massage, ROM, locating muscle attachments and demonstrating actions and endangerment sites) acquired during the program. (ILO: Communication)

CLO#3: Discuss the state board examination formats and practice successful exam-taking protocol.

Typical Required and Recommended Equipment and Materials: Twin sheet set, shorts and tank top and lotion

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

MT 117 - Body Maintenance for Massage

1 Credit(s)

Prerequisite(s):

Acceptance into a Massage Therapy program, or permission of Instructor.

Corequisite(s):

MT 117L

Course Description: Provides knowledge and hands-on techniques to show how to recognize, prevent, and treat injuries for bodywork professionals. Students will learn how and why injuries happen and information that will help to protect their own health and better understand their clients' complaints.

Course Learning Outcomes:

CLO#1: Identify the reasons for injury and how to prevent them. (ILO: Critical Thinking)

CLO#2: Apply proper body maintenance techniques to help insure their goal of an injury-free career as a bodywork professional.

Typical Required and Recommended Equipment and Materials: Wear comfortable clothing and bring two sheets to class when required.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 117L - Body Maintenance for Massage Lab

1 Credit(s)

Prerequisite(s):

Acceptance into a Massage Therapy program, or permission of Instructor.

Corequisite(s):

MT 117

Course Description: Provides knowledge and hands-on techniques to show how to recognize, prevent, and treat injuries for bodywork professionals. Students will learn how and why injuries happen and information that will help to protect their own health and better understand their clients' complaints.

Course Learning Outcomes:

CLO#1: Utilize good ergonomics and body mechanics while doing massage therapy. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Wear comfortable clothing and bring two sheets to class when required.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (24) hours per term.

MT 118 - Deep Tissue Massage

1 Credit(s)**Prerequisite(s):**

MT 108, MT 108L and BI 121, BI 121L or BI 231, BI 231L

Corequisite(s):

MT 118L

Course Description: Provides knowledge and hands-on instruction in the theory of deep tissue massage, reviews anatomy of muscles and relevant structures, and treatment plans for pain symptoms throughout the body. Deep tissue massage can provide instant results for patients suffering with pain due to musculoskeletal dysfunction. Hands on practice will be included.

Course Learning Outcomes:

CLO#1: Discuss major components of muscles. (ILO: Communication)

CLO#2: Identify pain symptoms and why they occur.

CLO#3: Discuss Deep Tissues relevancy in today's society and why it has become an important clinical modality.

Typical Required and Recommended Equipment and Materials: Students should wear comfortable clothing and bring two sheets, a pillowcase, oil holster, and a swimsuit or shorts and tank top to each class.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 118L - Deep Tissue Massage Lab**1 Credit(s)****Prerequisite(s):**

MT 108, MT 108L and BI 121, BI 121L or BI 231, BI 231L

Corequisite(s):

MT 118

Course Description: Provides knowledge and hands-on instruction in the theory of deep tissue massage, reviews anatomy of muscles and relevant structures, and treatment plans for pain symptoms throughout the body. Deep tissue massage can provide instant results for patients suffering with pain due to musculoskeletal dysfunction. Hands on practice will be included.

Course Learning Outcomes:

CLO#1: Create and safely apply Deep Tissue treatment plans. (ILO: Critical Thinking)

CLO#2: Communicate effectively with client's pretreatment, during and post treatment.

Typical Required and Recommended Equipment and Materials: Students should wear comfortable clothing and bring two sheets, a pillowcase, oil holster, and a swimsuit or shorts and

tank top to each class.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MT 119 - Craniosacral Therapy I

1 Credit(s)

Prerequisite(s):

Acceptance into a Massage Therapy program, or permission of Instructor.

Corequisite(s):

MT 119L

Course Description: Introduces craniosacral therapy including palpation of the craniosacral rhythm at the listening stations, diaphragms and cranial structures. Students will learn the 10-point protocol of craniosacral therapy.

Course Learning Outcomes:

CLO#1: Identify and explain the theory and structures of the craniosacral system. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Students should wear comfortable clothing and bring two sheets and a pillowcase.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 119L - Craniosacral Therapy I Lab

1 Credit(s)

Prerequisite(s):

Acceptance into a Massage Therapy program, or permission of Instructor.

Corequisite(s):

MT 119

Course Description: Introduces craniosacral therapy including palpation of the craniosacral rhythm at the listening stations, diaphragms and cranial structures. Students will learn the 10-point protocol of craniosacral therapy.

Course Learning Outcomes:

- CLO#1: Palpate the craniosacral rhythm and assess the range of motion, amplitude and strength of the craniosacral rhythm. (ILO: Critical Thinking)
- CLO#2: Perform diaphragm and hyoid releases.
- CLO#3: Perform a 10-step craniosacral therapy protocol.

Typical Required and Recommended Equipment and Materials: Students should wear comfortable clothing and bring two sheets and a pillowcase.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (24) hours per term.

MT 120A - Ethics - Law for Massage Therapists

1 Credit(s)

Course Description: Focuses on the concept of professionalism, ethics, boundaries, and the legal issues associated with massage/bodywork therapy.

Course Learning Outcomes:

- CLO#1: Function as a professional and identify Oregon laws and regulations for massage therapy.
- CLO#2: Discuss legal and ethical issues associated with massage/bodywork therapy. (ILO: Information Literacy)
- CLO#3: Relate Oregon laws and regulations to real and hypothetical practice situations.
- CLO#4: Identify legal and ethical responsibilities involved in a professional massage therapy practice.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 120B - Business for Massage Therapists

2 Credit(s)

Prerequisite(s):

WR 115

WR 115Q as required

Course Description: Focuses on business practices, marketing, record keeping, and insurance billing for your massage therapy practice.

Course Learning Outcomes:

- CLO#1: Identify appropriate business principles to apply toward setting up a massage therapy practice. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Construct a two-year business plan implementing appropriate business principles.
- CLO#3: Analyze records to be kept for taxes (Revenue, expenses, cost of goods sold, utilities, rent, payroll...).
- CLO#4: Identify and discuss rules and regulations for doing medical massage insurance billing.
- CLO#5: Discuss CPT and ICD coding. Demonstrate how to complete a HCFA-1500 form.
- CLO#6: Identify and compare computer programs for the massage office.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

MT 121 - Eastern Bodywork Theory II

1 Credit(s)

Prerequisite(s):

MT 101, MT 101L

Corequisite(s):

MT 121L

Course Description: Students will learn the fundamental methods and philosophical background of Ayurveda and Touch for Health. Introduces assorted styles and techniques of acupressure and energy balancing.

Course Learning Outcomes:

- CLO#1: Identify and describe the 8 strange flow energy channels used in Traditional Chinese Medicine
- CLO#2: Discuss the history of the Ayurveda healing tradition of India and Ayurvedic massage. Describe principles of Ayurveda: the Tridoshas, 3 Gunas, Prakrti, chakra qualities and traditional signs of dysfunction.
- CLO#3: Discuss effects and recognize goals of the application of Strange Flow treatment patterns and Touch for Health. (ILO: Communication)
- CLO#4: Identify how manual massage skills combine (Touch for Health, acupressure and massage) to balance the body's energy.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 121L - Eastern Bodywork II Lab

1 Credit(s)**Prerequisite(s):**

MT 101, MT 101L

Corequisite(s):

MT 121

Course Description: Students will learn the fundamental methods and philosophical background of Ayurveda and Touch for Health. Introduces assorted styles and techniques of acupressure and energy balancing.

Course Learning Outcomes:

- CLO#1: Demonstrate competence in applying a basic treatment pattern, adjusting application for client's comfort level.
- CLO#2: Demonstrate ergonomic body mechanics, good hygiene, and maintain a clean facility and equipment.
- CLO#3: Chart to accommodate to the session plan for individuals presenting health issues in terms of referring out, positioning, precautions and applying techniques. (ILO: Critical Thinking)
- CLO#4: Locate energy chakras on themselves and others.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MT 122 - Special Populations**1 Credit(s)****Corequisite(s):** MT 122L

Course Description: Special Populations Massage introduces students to trauma-informed care, focusing on how trauma impacts the body. Students will learn techniques to effectively work with diverse populations who have experienced traumatic events, elderly, trauma informed, chronically ill, terminally ill, oncology clients and special needs.

Course Learning Outcomes:

- CLO#1: Identify physical and psychological benefits of massage for special populations (elderly, trauma impacted, chronically ill, terminally ill, and oncology clients).
- CLO#2: Utilize effective communication skills when working with special populations. (ILO: Communication)
- CLO#3: Use special considerations when providing massage for special populations.

Typical Required and Recommended Equipment and Materials: Students should wear comfortable clothing and bring two sheets, a pillowcase, a clean-up towel, an oil holster, socks/slippers, and a swimsuit or clean undergarments to each class.

ACTI Code and Course Type

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MT 122L - Special Populations Lab

1 Credit(s)

Corequisite(s): MT 122

Course Description: In this lab, students will learn and practice techniques to effectively work with diverse populations, including individuals who have experienced traumatic events, the elderly, trauma-informed clients, those who are chronically ill, terminally ill, oncology patients, and individuals with special needs.

Course Learning Outcomes:

CLO#1: Perform client intake procedures for clients from special populations (e.g., trauma-impacted, chronically or terminally ill, and elderly clients) to identify individual considerations.

CLO#2: Demonstrate safe and appropriate sanitation, draping methods, and personal hygiene in the performance of massage and bodywork when working with special populations.

CLO#3: Determine appropriate treatment based on intake, consultation and special considerations, assess client's reactions during treatment and adjust treatment accordingly. Assess post treatment reactions and give appropriate post treatment instructions. (ILO: Communication)

CLO#4: State considerations, complications, and massage therapy contraindications for safely applying techniques with modifications for special populations.

Typical Required and Recommended Equipment and Materials: Students should wear comfortable clothing and bring two sheets, a pillowcase, a clean-up towel, an oil holster, socks/slippers, and a swimsuit or clean undergarments to each class.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MT 180 - CWE - Massage Therapy

Var. (1-4) Credit(s)

Prerequisite(s):

Permission of CWE Instructor or Department Chair.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their program. Together, the Instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work

experience. This course offers career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate the ability to successfully complete the interview process.
- CLO#2: Demonstrate the importance of completing forms accurately and meeting deadlines.
- CLO#3: Demonstrate the importance of an acceptable work ethic as described in the CWE Work Ethic and Professional Presence Guidelines and student's learning objectives.
- CLO#4: Demonstrate good work performance (student's learning objectives).
- CLO#5: Follow instructions and meet deadlines.
- CLO#6: Demonstrate a professional presence as described in the CWE Work Ethic and Professional Presence Guidelines while on the job.
- CLO#7: Apply program knowledge, theories, principles, methods and technology. Gain new knowledge, skills, and experience while on the job. (ILO: Critical Thinking)
- CLO#8: Make contacts which will help in obtaining employment.

Typical Required and Recommended Equipment and Materials: An RCC collared shirt and RCC nametag must be worn during work experience hours.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

MT 180S - Massage Therapy CWE Seminar

1 Credit(s)

Prerequisite(s):

Acceptance into a Massage Therapy program, or permission of Instructor.

Corequisite(s):

MT 180

Course Description: Provides students with strategies for successful experiential learning, including techniques for self-monitoring and tracking progress; sustaining positive relationships with co-workers and supervisors; working with mentors; and basic conflict resolution. Presents information regarding the role played by non-verbal communication, written and unwritten workplace policies, and positive work ethics. Course includes practical instruction regarding the integration of reflective learning with experiential learning and the process of integrating relevant theory and/or outside learning resources with experiential learning. Students will be provided with basic strategies for career advancement, and the theory and practical application of techniques for writing a skills-based resume, effective employment application, and interview skills. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Share different massage therapy work environments. Integrating reflection on experiences and personal growth in the work environment.
- CLO#2: Identify the theory of differing treatment plans for differing clientele.

CLO#3: Discuss serving clients and the employer in a positive and professional manner to meet industry standards.

CLO#4: Design a skills-based resume. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Writing utensil.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) seminar hours per term, not to exceed (12) hours per term.

MT 199 - Special Studies - Massage Therapy

Var. (1-3) Credit(s)

Prerequisite(s):

Varies according to specific offering.

Course Description: This course provides knowledge and hands-on instruction in new theory and massage techniques. Course is repeatable.

Course Learning Outcomes:

CLO#1: Discuss theory of the modality.

CLO#2: Identify indications and contraindications of using the modality.

CLO#3: Describe the benefits and effects of using the modality.

CLO#4: Safely apply the modality.

CLO#5: Effectively communicate with clients explaining the modality, its benefits, and outcomes. (ILO: Communication)

CLO#6: Provide post treatment information for client's after treatment care.

Typical Required and Recommended Equipment and Materials: Will vary depending on the course.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (24) hours per term.

Mathematics

MTH 15A - Math Fast Track

3 Credit(s)

Prerequisite(s):

Designated placement score into MTH 20 or MTH 60 or MTH 65. Students should also be familiar with computers.

Course Description: Offers students the chance to improve math placement more than one level in one term. It is designed for students who need to take several math courses before entering a program and who have seen the material before and need to "fill in the gaps." It is offered as an emporium-style math class that meets six hours per week in a computer lab using computer software that covers material from MTH 20 through MTH 95 (depending on the math level at which students enter the class and through which they are trying to complete). Class attendance is mandatory. Students work on online homework and take proctored online tests. Each student will be assigned a new math placement determined by in-person, proctored test score(s) at the end of the course. Course is graded on a pass/no pass basis. Course does not transfer. May not be offered every year. Please check with Department Chair.

Course Learning Outcomes:

CLO#1: Demonstrate proficiency in the topics for which placement is received: MTH 60: Fundamental operations with whole numbers, fractions, decimals, integers, percentages, ratios, basic geometry and measurement. MTH 65: Use mathematical problem solving techniques involving rational numbers, exponents, order of operation, linear equations, and systems of equations. MTH 95: Use mathematical problem solving techniques involving polynomial and rational expressions and equations. (ILO: Quantitative Literacy and Reasoning)

Typical Required and Recommended Equipment and Materials: Notebook, ruled paper, pencils, and calculator (MTH20 & MTH60: scientific calculator; MTH65 & MTH95: graphing calculator).

ACTI Code and Course Type

351 Post-Secondary Remedial Math

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

MTH 20 - Pre-algebra

4 Credit(s)

Course Description: Reinforces skills in whole number, fractions, and decimals while introducing computation with rational numbers, exponents, order of operation, and the use of variables, expressions, formulas, and equations. Ratio and proportions, percent, and topics in measurement are also studied. Working with real data, formulas, and applications will be stressed. Course is graded on a pass/no pass basis. Course does not transfer. A scientific calculator is required. There is a significant online component in this class.

Course Learning Outcomes:

CLO#1: Gain number sense by estimating and calculating in arithmetic operations with whole numbers, integers, fractions, and decimals.
CLO#2: Use measurement as a model in a variety of arithmetic problems; using number sense to judge the reasonableness of their results.
CLO#3: Use whole numbers, integers, fractions, decimals, and percentages appropriately and effectively in all the arithmetic operations. (ILO: Quantitative Literacy and Reasoning)
CLO#4: Solve application problems that require determining the appropriate arithmetic operations.

CLO#5: Use a variable to represent an unknown quantity and solve one-step algebraic equations.

Typical Required and Recommended Equipment and Materials: Notebook, ruled paper, pencils, stapler or paper clips, scientific calculator.

ACTI Code and Course Type

351 Post-Secondary Remedial Math

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MTH 60 - Fundamentals of Algebra I

4 Credit(s)

Corequisite(s):

MTH 20 or designated placement

Course Description: Introduces the study and application of the real numbers, operations with real numbers, exponents, order of operations, mathematical modeling, solving linear equations, methods of problem solving, rates, slope, graphs of lines, equations of lines, and systems of linear equations. Working with real data, formulas, and applications will be stressed. Course is graded on a pass/no pass basis. Course does not transfer. A scientific calculator is required. There is a significant online component in this class.

Course Learning Outcomes:

CLO#1: Apply the powerful concept of a variable in linear relationships (patterns) in the form of tables, graphs, equations and verbal descriptions; and be able to move comfortably between each form. (ILO: Quantitative literacy & reasoning)

CLO#2: Investigate, model, and solve real world algebra problems that require an understanding of linear relationships.

CLO#3: Use appropriate technology to solve linear problems and applications and judge the reasonableness of their results.

Typical Required and Recommended Equipment and Materials: Scientific calculator, pencil, paper, and graph paper.

ACTI Code and Course Type

351 Post-Secondary Remedial Math

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MTH 60R - Fundamentals of Algebra I Rec

1 Credit(s)

Prerequisite(s):

MTH 20 or designated placement.

Corequisite(s):

MTH 60

Course Description: Designed for students currently enrolled in MTH 60, this optional course provides additional help with the material presented in MTH 60, which introduces the study and application of the real numbers, operations with real numbers, exponents, order of operations, mathematical modeling, solving linear equations, methods of problem solving, rates, slope, graphs of lines, equations of lines, and systems of linear equations. Working with real data, formulas, and applications will be stressed. Course is graded on a pass/no pass basis. Course does not transfer.

Course Learning Outcomes:

- CLO#1: Apply the powerful concept of a variable in linear relationships (patterns) in the form of tables, graphs, equations and verbal descriptions; and be able to move comfortably between them. (ILO: Quantitative literacy & reasoning)
- CLO#2: Investigate, model, and solve real world algebra problems that require an understanding of linear relationships.
- CLO#3: Use appropriate technology to solve linear problems and applications and judge the reasonableness of their results.

Typical Required and Recommended Equipment and Materials: Scientific calculator, pencil, paper, and graph paper.

ACTI Code and Course Type

351 Post-Secondary Remedial Math

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MTH 65 - Fundamentals of Algebra II

4 Credit(s)

Prerequisite(s):

MTH 60 or designated placement

Course Description: Includes the study and application of exponents, polynomial operations, factoring polynomial expressions, solving polynomial equations, rational expression operations, and solving rational equations. Course is graded A through F. Course does not transfer. A graphing calculator is required. There is a significant online component in this class.

Course Learning Outcomes:

- CLO#1: Add, subtract, multiply, and divide polynomials and rational expressions.
- CLO#2: Factor polynomials efficiently, using appropriate methods.
- CLO#3: Apply quadratic and rational models to solve real world problems. (ILO: Quantitative literacy & reasoning)
- CLO#4: Apply the rules of exponents in a variety of contexts.
- CLO#5: Use appropriate technology to graph equations, solve problems, and judge the reasonableness of the results.

Typical Required and Recommended Equipment and Materials: Graphing calculator (TI 83, TI-83 Plus, TI-84 Plus, or TI-84 Silver), pencil, paper and graph paper.

ACTI Code and Course Type

351 Post-Secondary Remedial Math

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MTH 65R - Fundamentals of Algebra II Rec

1 Credit(s)

Prerequisite(s):

MTH 60 or designated placement.

Corequisite(s):

MTH 65

Course Description: Designed for students currently enrolled in MTH 65, this optional course provides more help with the material presented in MTH 65, including the study and application of exponents, polynomial operations, factoring polynomial expressions, solving polynomial equations, rational expression operations, and solving rational equations. Course is graded on a pass/no pass basis. Course does not transfer.

Course Learning Outcomes:

CLO#1: Add, subtract, multiply, and divide polynomials and rational expressions.

CLO#2: Factor polynomials efficiently, using appropriate methods.

CLO#3: Apply quadratic and rational models to solve real world problems. (ILO: Quantitative literacy & reasoning)

CLO#4: Apply the rules of exponents in a variety of contexts.

CLO#5: Use appropriate technology to graph equations, solve problems, and judge the reasonableness of the results.

Typical Required and Recommended Equipment and Materials: Graphing calculator (TI 83, TI-83 Plus, TI-84 Plus, or TI-84 Silver), pencil, paper and graph paper.

ACTI Code and Course Type

351 Post-Secondary Remedial Math

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hour per term, not to exceed (24) hours per term.

MTH 95 - Intermediate Algebra

4 Credit(s)

Prerequisite(s):

MTH 65 or designated placement

Course Description: Concluding the developmental mathematics sequence, MTH95 includes an introduction to the study and application of quadratic, radical, exponential, and logarithmic expressions and functions. Working with real data and the mathematics of curve fitting will be developed using a graphing calculator. Course is graded A through F. Course does not transfer. Graphing calculator required. There is a significant online component in this class.

Course Learning Outcomes:

- CLO#1: Recognize and apply the concept of a function in the larger context of algebra.
- CLO#2: Simplify and solve problems involving radical, quadratic, exponential, and logarithmic expressions and equations. (ILO: Quantitative literacy & reasoning)
- CLO#3: Apply radical, quadratic, exponential, and logarithmic models to solve real world problems.
- CLO#4: Use appropriate technology to graph radical, quadratic, exponential, and logarithmic functions and perform regression, judging the reasonableness of the results.

Typical Required and Recommended Equipment and Materials: Graphing calculator (TI 83, TI-83 Plus, TI-84 Plus, or TI-84 Silver), pencil, paper and graph paper.

ACTI Code and Course Type

351 Post-Secondary Remedial Math

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MTH 95R - Intermediate Algebra Recitation

1 Credit(s)

Prerequisite(s):

MTH 65 or designated placement.

Corequisite(s):

MTH 95

Course Description: Designed for students currently enrolled in MTH 95, this optional course provides more help with the material presented in MTH 95, including the study and application of quadratic, radical, exponential, and logarithmic expressions and functions. Working with real data and the mathematics of curve fitting will be developed using the graphing calculator. Graded on a pass/no pass basis. Course does not transfer.

Course Learning Outcomes:

- CLO#1: Recognize and apply the concept of a function in the larger context of algebra.
- CLO#2: Simplify and solve problems involving radical, quadratic, exponential, and logarithmic expressions and equations. (ILO: Quantitative literacy & reasoning)
- CLO#3: Apply radical, quadratic, exponential, and logarithmic models to solve real world problems.
- CLO#4: Use appropriate technology to graph radical, quadratic, exponential, and logarithmic functions and perform regression, judging the reasonableness of the results.

Typical Required and Recommended Equipment and Materials: Graphing calculator (TI 83, TI-83 Plus, TI-84 Plus, or TI-84 Silver), pencil, paper and graph paper.

ACTI Code and Course Type

351 Post-Secondary Remedial Math

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MTH 96 - Applied Algebra II

4 Credit(s)

Prerequisite(s):

MTH 60 or MTH 102CT or designated placement

Course Description: Introduces the study and application of linear, quadratic, power, exponential, and logarithmic expressions and functions. Working with real data, the mathematics of curve fitting will be developed making extensive use of the graphing calculator. This course concludes the developmental mathematics sequence. Course does not transfer.

Course Learning Outcomes:

CLO#1: Differentiate between empirical, graphical, and functional representations of algebraic relationships.

CLO#2: Create linear, quadratic, power, exponential, and logarithmic models of real world situations using the regression feature of graphing calculators and excel. (ILO: Quantitative literacy & reasoning)

CLO#3: Recognize the basic shape of linear, quadratic, power, exponential, and logarithmic relationships.

CLO#4: Use basic algebra skills to solve linear, quadratic, power, exponential, and logarithmic equations.

Typical Required and Recommended Equipment and Materials: Graphing calculator (TI 83, TI-83 Plus, TI-84 Plus, or TI-84 Silver), pencil, paper and graph paper or engineering paper.

ACTI Code and Course Type

351 Post-Secondary Remedial Math

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MTH 102CT - Math for CTE Professionals

4 Credit(s)

Prerequisite(s):

MTH 20 or designated placement.

Course Description: Introduces the use of formulas and equations in an entirely practical and

applied context. Topics include mathematical operations with real numbers, measurement, ratios, proportions, percentages, dimensional analysis, order of operations, solving equations numerically and symbolically, Pythagorean Theorem, trigonometry, area, perimeter, surface area and volume. THIS COURSE MAY NOT SATISFY MATH TRANSFER CREDIT. Formerly offered as MTH 63.

Course Learning Outcomes:

CLO#1: Use mathematical problem solving techniques involving real numbers, exponents, order of operation, and linear equations.

CLO#2: Create models of real world situations.

CLO#3: Make mathematical connections to, and solve problems from, other disciplines that can be represented using real numbers, algebraic notation, and linear models.

CLO#4: Use appropriate technology to enhance conceptual understanding of real numbers and algebraic expressions; and judge the reasonableness of their results.

CLO#5: Complete projects that encourage independent, non-trivial exploration of situations that are best modeled by algebraic expressions.

CLO#6: Solve problems using geometric formulas (perimeter, area, and volume) and dimensional analysis (unit conversion). (ILO: Quantitative Literacy and Reasoning)

Typical Required and Recommended Equipment and Materials: ruler, protractor, TI-30 calculator

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MTH 105Q - Corequisite Support for MTH105Z

1 Credit(s)

Prerequisite(s):

MTH 95 or MTH 96 or designated placement

Corequisite(s): MTH 105Z

Course Description: This support course focuses on the foundational skills and concepts needed to be persistent and successful in MTH 105Z introduction to contemporary math. In an interactive setting, students will receive appropriate support in quantitative and algebraic reasoning, reading comprehension, logic, geometry, probability, problem solving, technology, and study skills. Course grade based on participation and attendance and designed to match main course grade.

Course Learning Outcomes:

CLO#1: Demonstrate relevant skills to effectively engage with the concepts and skills needed in MTH105Z. (ILO: Quantitative Literacy & Reasoning)

CLO#2: Utilize study habits and learning strategies that promote success in MTH105Z.

CLO#3: Analyze, communicate, and interpret results in context.

Typical Required and Recommended Equipment and Materials: Graphing calculator (T1-83 or T1-84), graph paper, pencil, paper, and notebook.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MTH 105Z - Math in Society

4 Credit(s)

Prerequisite(s):

MTH 95 or MTH 96 or designated placement.

Corequisite(s): MTH 105Q required for students who have not completed MTH 95 or MTH 96 or higher.

Course Description: An exploration of present-day applications of mathematics focused on developing numeracy. Major topics include quantitative reasoning and problem-solving strategies, probability and statistics, and financial mathematics; these topics are to be weighted approximately equally. This course emphasizes mathematical literacy and communication, relevant everyday applications, and the appropriate use of current technology. Course is graded A through F. Formerly offered as MTH105.

Course Learning Outcomes:

- CLO#1: Employ mathematical reasoning skills when reading complex problems requiring quantitative or symbolic analysis and demonstrate versatility in the consideration and selection of solution strategies. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Demonstrate proficiency in the use of mathematical symbols, techniques, and computation that contribute to the exploration of applications of mathematics.
- CLO#3: Use appropriate mathematical structures and processes to make decisions and solve problems in the contexts of logical reasoning, probability, data, statistics, and financial mathematics.
- CLO#4: Use appropriate representations and language to effectively communicate and interpret quantitative results and mathematical processes orally and in writing.
- CLO#5: Demonstrate mathematical habits of mind by determining the reasonableness and implications of mathematical methods, solutions, and approximations in context.

Typical Required and Recommended Equipment and Materials: Graphing calculator (T1-83 or T1-83 Plus), graph paper, pencil, paper, and notebook.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of forty (40) and a standard RCC deliver of (44) lecture hours per term, not to exceed (48) hours per term.

MTH 111Q - Corequisite Support for MTH111Z

1 Credit(s)**Prerequisite(s):**

MTH 95 or designated placement.

Corequisite(s):

MTH 111Z

Course Description: An optional course taken concurrently with MTH 111Z. It is for those students who want more help with the material of MTH 111Z. MTH 111Q covers a review of MTH 95 material, using the graphing calculator, and topics and concepts of particular difficulty presented in the MTH 111Z class.

Course Learning Outcomes:

- CLO#1: Solve basic algebra problems involving polynomial, rational, exponential, logarithmic, conic sections and non-linear systems
- CLO#2: Move comfortably between empirical, graphical, and functional representations of algebraic relationships.
- CLO#3: Recognize the basic shape of polynomial, logarithmic, exponential, and conic relations and the interrelatedness of their transformations. (ILO: Quantitative Literacy & Reasoning)
- CLO#4: Use appropriate technology to enhance conceptual understanding of regression, graphing non-linear systems, matrix algebra and finding zeros of polynomial functions.
- CLO#5: Demonstrate skill with real world phenomena best modeled by polynomial, rational, exponential, logarithmic, conic sections and non-linear systems of equations.

Typical Required and Recommended Equipment and Materials: Graphing calculator (TI-83, TI-83 Plus, or TI-84 Plus are recommended), graph paper, pencil, paper, and notebook.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC deliver of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MTH 111Z - Precalculus I - Functions**4 Credit(s)****Prerequisite(s):**

MTH 95 or designated placement

Course Description: A course primarily designed for students preparing for trigonometry or calculus. This course focuses on functions and their properties, including polynomial, rational, exponential, logarithmic, piecewise-defined, systems of equations, conic sections and inverse functions. These topics will be explored symbolically, numerically, and graphically in real-life applications and interpreted in context. This course emphasizes skill building, problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of present-day technology. Course is graded A through F. Formerly offered as MTH111.

Course Learning Outcomes:

- CLO#1: Explore the concept of a function numerically, symbolically, verbally, and graphically and identify properties of functions both with and without technology.
- CLO#2: Analyze polynomial, rational, exponential, and logarithmic functions, as well as piecewise-defined functions, in both algebraic and graphical contexts, and solve equations involving these function types.
- CLO#3: Demonstrate algebraic and graphical competence in the use and application of functions including notation, evaluation, domain/range, algebraic operations & composition, inverses, transformations, symmetry, rate of change, extrema, intercepts, asymptotes, and other behavior. (ILO: Quantitative literacy & reasoning)
- CLO#4: Use variables and functions to represent unknown quantities, create models, find solutions, and communicate an interpretation of the results.
- CLO#5: Determine the reasonableness and implications of mathematical methods, solutions, and approximations in context.

Typical Required and Recommended Equipment and Materials: Graphing calculator (TI-83, TI-83 Plus, or TI-84 Plus are recommended), graph paper, pencil, paper, and notebook.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MTH 112Q - Corequisite Support for MTH112Z

1 Credit(s)

Prerequisite(s):

MTH 95 or designated placement.

Corequisite(s):

MTH 112Z

Course Description: This is an optional course taken concurrently with MTH 112Z. It is for those students who want more help with the material of MTH 112Z. MTH 112Q covers topics and concepts of particular difficulty presented in the MTH 112Z class.

Course Learning Outcomes:

- CLO#1: Solve trigonometry problems in the context of right triangles and circles. (ILO: Quantitative literacy & reasoning)
- CLO#2: Demonstrate mathematical fluency with real world phenomena in surveying, engineering, navigation, and projectile motion, best modeled by trigonometric functions.
- CLO#3: Solve analytic geometry problems involving trigonometry.
- CLO#4: Solve and create trigonometric identities and equations.

Typical Required and Recommended Equipment and Materials: Graphing calculator (TI-83, TI-83 Plus, or TI-84 Plus are recommended), graph paper, pencil, paper, and notebook.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MTH 112Z - Precalculus II - Trigonometry**4 Credit(s)****Prerequisite(s):**

MTH 95 or designated placement

Course Description: A course primarily designed for students preparing for calculus and related disciplines. This course explores trigonometric functions and their applications as well as the language and measurement of angles, triangles, circles, and vectors. These topics will be explored symbolically, numerically, and graphically in real-life applications and interpreted in context. This course emphasizes skill building, problem solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of present-day technology. Course is graded A through F. Formerly offered as MTH112.

Course Learning Outcomes:

- CLO#1: Translate among various systems of measure for angles including radians, degrees, and revolutions. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Represent, manipulate, and evaluate trigonometric expressions in terms of sides of a right triangle and in terms of the coordinates of a unit circle.
- CLO#3: Graph, transform, and analyze trigonometric functions using amplitude, shifts, symmetry, and periodicity.
- CLO#4: Manipulate trigonometric expressions and prove trigonometric identities.
- CLO#5: Solve trigonometric equations using inverses, periodicity, and identities.
- CLO#6: Define, represent, and operate with vectors both geometrically and algebraically.
- CLO#7: Apply the law of sines and the law of cosines to determine lengths and angles.
- CLO#8: Use variables, trigonometric functions, and vectors to represent quantities, create models, find solutions, and communicate an interpretation of the results.
- CLO#9: Determine the reasonableness and implications of mathematical methods, solutions, and approximations in context.

Typical Required and Recommended Equipment and Materials: Graphing calculator (TI-83, TI-83 Plus, or TI-84 Plus are recommended), graph paper, pencil, paper, and notebook.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MTH 199 - Special Studies - Mathematics**Var. (1-2) Credit(s)****Prerequisite(s):**

MTH 111Z and MTH 112Z or permission of Instructor

Course Description: Designed as a mathematical course of study to investigate beyond traditional curriculum offerings. Topics to be determined based on student interest and ability. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Use problem-solving steps and problem-solving strategies to define, understand, analyze, and solve problems. (ILO: Quantitative Literacy & Reasoning)
- CLO#2: Research historical sources, assimilate ideas and codify into organized and informative written presentations.
- CLO#3: Communicate mathematical discoveries and arguments in engaging and accurate language.
- CLO#4: Research real world applications and write computer programs to extend their use.

Typical Required and Recommended Equipment and Materials: Dependent on term/instructor

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

MTH 211 - Fundamentals of Elementary Math I

4 Credit(s)

Prerequisite(s):

MTH 95 or MTH 96 or designated placement.

Course Description: The first of a three-term sequence designed to prepare pre-service elementary and middle school teachers for entrance into the Oregon teacher's certification program. The course will study the topics of problem solving, sets, whole number concepts and operations, elementary number theory, integers, and elementary logic.

Course Learning Outcomes:

- CLO#1: Identify and use problem-solving steps and problem solving strategies to understand, analyze and solve problems.
- CLO#2: Identify and use the attributes of numbers to describe the nature of the whole numbers, integers, and numeration systems.
- CLO#3: Use definitions and properties to describe the operations of whole numbers and integers.
- CLO#4: Justify operational algorithms for whole numbers using properties and theorems. (ILO: Quantitative Literacy and Reasoning)
- CLO#5: Calculate whole number and integer results accurately using mental math, paper and pencil, and computational technology.
- CLO#6: Communicate and respond to mathematical conjectures by seeking verification using mathematical definitions, properties and theorems. Respond to, including respectfully disagreeing with, the mathematical conjectures of others.
- CLO#7: Develop, evaluate, and present elementary mathematical arguments (proofs) using properties and theorems developed in this course.

Typical Required and Recommended Equipment and Materials: Graphing or scientific calculator.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MTH 212 - Fundamentals of Elementary Math II

4 Credit(s)

Prerequisite(s):

MTH 211 or designated placement.

Course Description: The second term of a three-term sequence designed to prepare pre-service elementary and middle school teachers for entrance into the Oregon teacher certification program. The course will study the topics from basic math, algebra, counting theory, probability, and statistics.

Course Learning Outcomes:

- CLO#1: Identify and use problem solving steps and problem solving strategies to understand, analyze and solve problems.
- CLO#2: Identify and use the attributes of measurements to describe the nature of the rational numbers.
- CLO#3: Define and give examples of primes, composites, factors and multiples; and use these effectively to simplify rational number calculations and results. (ILO: Quantitative Literacy & Reasoning)
- CLO#4: Use definitions and properties to describe operations, and operational algorithms, with rational numbers.
- CLO#5: Calculate rational number results accurately whether using mental math, paper and pencil, or computational technology.
- CLO#6: Define probability and use this definition with specific properties and models for probability to explain and calculate $P(E)$, $P(A \text{ and } B)$, $P(A \text{ or } B)$, $P(A | B)$ and odds in elementary problem situations.
- CLO#7: Use fundamental counting techniques, including permutations and combinations, to determine the size of a set of outcomes.
- CLO#8: Create, explain and use graphical displays of statistical information.
- CLO#9: Explain, calculate and use relevant statistical measures of central tendency, variability and relative standing.
- CLO#10: Communicate and respond to mathematical conjectures by seeking verification using mathematical definitions, properties and theorems. Analyze and respond to the mathematical conjectures of others. Respectfully disagree with a conjecture by providing counterexamples.
- CLO#11: Develop, evaluate, and present elementary mathematical arguments (proofs) using properties and theorems developed in this course.

Typical Required and Recommended Equipment and Materials: Graphing or scientific calculator.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MTH 213 - Fundamentals of Elementary Math III

4 Credit(s)

Prerequisite(s):

MTH 95 or MTH 96 or designated placement.

Course Description: The third term of a three-term sequence designed to prepare pre-service elementary and middle school teachers for entrance into the Oregon teacher certification program. The course will study the topics of geometric shapes, measurement, triangle congruence and similarity, coordinate geometry, and transformational geometry.

Course Learning Outcomes:

- CLO#1: Use problem solving steps and problem solving strategies to understand, analyze and solve problems.
- CLO#2: Define and use the attributes of dimensionality, shape, angle, line and intersection to view our geometrical world and to solve problems.
- CLO#3: Define and use concepts of congruence and similarity to create geometric constructions, analyze these, and to solve problems.
- CLO#4: Define and explain the Cartesian coordinate system. Use the Cartesian coordinate system to create, analyze and solve problems.
- CLO#5: Define linear, area, surface area, and volume. Explain and use measurement formulas to solve problems. (ILO: Quantitative Literacy & Reasoning)
- CLO#6: Define and explain the metric system. Use metric measures to solve problems.
- CLO#7: Define translations, rotations, reflections, glide reflections and size transformations. Use these to analyze shapes and solve problems.
- CLO#8: Define and use symmetries to analyze and solve problems.
- CLO#9: Analyze and create tilings and tessellations of the plane and polyhedron nets using paper and pencil and appropriate software.
- CLO#10: Communicate and respond to mathematical conjectures by seeking verification using mathematical definitions, properties, and theorems. Respectfully provide counter example(s) for mathematical conjectures that are not correct.
- CLO#11: Develop, evaluate, and present elementary mathematical arguments (proofs) using properties and theorems developed in this course.

Typical Required and Recommended Equipment and Materials: Graphing or scientific calculator, Geometer's Sketchpad software

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MTH 244 - Inferential Statistics

4 Credit(s)

Prerequisite(s):

STAT 243Z

Course Description: Builds on the knowledge of descriptive statistics learned in STAT 243Z to develop abilities in inferential statistics. Emphasis is on the understanding and application of interval estimating, hypothesis testing, correlation and regression, inferences using Chi-square, and one-way and two-way analysis of variance (ANOVA). Designed to provide students with the analytical skills they will need in upper division business courses including accounting, finance, operations management and applied research. Course also offered as BA 282.

Course Learning Outcomes:

- CLO#1: Explain the impact of sampling and the difference between observation and experiment.
- CLO#2: Perform significance testing and interval estimation. Be able to describe the strengths and weaknesses of these two methods.
- CLO#3: Test a hypothesis against the null hypothesis.
- CLO#4: Test hypotheses comparing two populations for both categorical and quantitative response variables. (ILO: Quantitative Literacy & Reasoning)
- CLO#5: Demonstrate when and how to use the Chi square test for categorical bivariate analysis.
- CLO#6: Prepare statistical analysis using linear regression techniques for quantitative bivariate data.
- CLO#7: Prepare statistical analysis using the Multiple Linear Regression technique.
- CLO#8: Prepare statistical analysis using one way and two-way Analysis of Variance (ANOVA) techniques.
- CLO#9: Demonstrate with simple nonparametric statistical analysis and know when each type of analysis is appropriate.

Typical Required and Recommended Equipment and Materials: Pens, #2 pencils, erasers, paper, and access to a computer for assignments. Microsoft® Excel access for homework templates. Graphing calculator such as TI-83 or TI-84 (Plus or Silver editions)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MTH 251Z - Differential Calculus

4 Credit(s)

Prerequisite(s):

MTH 111Z and MTH 112Z or designated placement

Course Description: This course explores limits, continuity, derivatives, and their applications for real-valued functions of a single variable. These topics will be explored graphically, numerically,

and symbolically in real-life applications. This course emphasizes abstraction, problem-solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of technology.

Course Learning Outcomes:

- CLO#1: Calculate limits graphically, numerically, and symbolically; describe the behavior of functions using limits and continuity; and recognize indeterminate forms.
- CLO#2: Apply the definition of the derivative and analyze average and instantaneous rates of change. (ILO: Quantitative Literacy & Reasoning)
- CLO#3: Interpret and apply the concepts of the first and second derivative to describe and illustrate function features including the slopes of tangent lines, locations of extrema and inflection points, and intervals of increase, decrease, and concavity
- CLO#4: Apply product, quotient, chain, and function-specific rules to differentiate combinations of power, polynomial, rational, exponential, logarithmic, trigonometric, and inverse trigonometric functions, as well as functions defined implicitly.
- CLO#5: Apply derivatives to a variety of problems in mathematics and other disciplines, including related rates, optimization, and L'Hôpital's rule.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

LECTURE PORTION: A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term. LECTURE/LAB PORTION A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

MTH 252Z - Integral Calculus

4 Credit(s)

Prerequisite(s):

MTH 251Z

Course Description: This course explores Riemann sums, definite integrals, and indefinite integrals for real-valued functions of a single variable. These topics will be explored graphically, numerically, and symbolically in real-life applications. This course emphasizes abstraction, problem-solving, modeling, reasoning, communication, connections with other disciplines, and the appropriate use of technology.

Course Learning Outcomes:

- CLO#1: Approximate definite integrals using Riemann sums and apply this to the concept of accumulation and the definition of the definite integral.
- CLO#2: Explain and use both parts of the Fundamental Theorem of Calculus.
- CLO#3: Choose and apply integration techniques including substitution, integration by parts, basic partial fraction decomposition, and numerical techniques to integrate combinations of power, polynomial, rational, exponential, logarithmic, trigonometric, and inverse trigonometric functions.
- CLO#4: Use the integral to model and solve problems in mathematics involving area, volume, net change, average value, and improper integration.

CLO#5: Apply integration techniques to solve a variety of problems, such as work, force, center of mass, or probability. (ILO: Quantitative literacy & reasoning)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

LECTURE PORTION: A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term. LECTURE/LAB PORTION A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

MTH 253Z - Calculus - Sequences and Series

4 Credit(s)

Prerequisite(s):

MTH 252Z

Course Description: This course explores real-valued sequences and series, including power and Taylor series. Topics include convergence and divergence tests and applications. These topics will be explored graphically, numerically, and symbolically. This course emphasizes abstraction, problem-solving, reasoning, communication, connections with other disciplines, and the appropriate use of technology.

Course Learning Outcomes:

CLO#1: Recognize and define sequences in a variety of forms and describe their properties, including the concepts of convergence and divergence, boundedness, and monotonicity.

CLO#2: Recognize and define series in terms of a sequence of partial sums and describe their properties, including convergence and divergence.

CLO#3: Recognize series as harmonic, geometric, telescoping, alternating, or p-series, and demonstrate whether they are absolutely convergent, conditionally convergent, or divergent, and find their sum if applicable. (ILO: Quantitative Literacy & Reasoning)

CLO#4: Choose and apply the divergence, integral, comparison, limit comparison, alternating series, and ratio tests to determine the convergence or divergence of a series.

CLO#5: Determine the radius and interval of convergence of power series, and use Taylor series to represent, differentiate, and integrate functions.

CLO#6: Use techniques and properties of Taylor polynomials to approximate functions and analyze error. (ILO: Quantitative Literacy & Reasoning)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

LECTURE PORTION: A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term. LECTURE/LAB PORTION A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

MTH 254 - Calculus IV - Vector Calculus

5 Credit(s)

Prerequisite(s):

MTH 252Z or permission of Instructor.

Recommended Prerequisite(s):

MTH 253Z

Course Description: The fourth course in the calculus sequence for science, mathematics, and engineering majors. Includes vector-valued functions, functions of several variables, partial differentiation, multiple integration, and vector analysis.

Course Learning Outcomes:

CLO#1: Graph 3D and level curves by hand and using technology (i.e. GeoGebra) (ILO: Quantitative Literacy & Reasoning)

CLO#2: Find derivatives, directional derivatives, tangent planes, and maximums and minimums for 3D curves.

CLO#3: Set up and solve double and triple integrals to find areas and volumes of 3D solids.

CLO#4: Model with vector fields, determining divergence and curl.

CLO#5: Find and interpret line and surface integrals for 3D functions.

Typical Required and Recommended Equipment and Materials: Graphing calculator.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

LECTURE PORTION: A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term. LECTURE/LAB PORTION: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MTH 256 - Differential Equations

5 Credit(s)

Prerequisite(s):

MTH 252Z or permission of Instructor

Recommended Prerequisite(s):

MTH 253Z

Course Description: First course in ordinary differential equations for science, mathematics, and engineering students. Includes first order differential equations, linear second order differential equations, and higher order linear differential equations with applications. Additional topics include Laplace transforms, series solutions of linear differential equations, and systems of differential equations with applications. A graphing calculator is required (the TI-83, TI-84 or TI-92 graphing calculator are recommended).

Course Learning Outcomes:

CLO#1: Demonstrate how to model differential equations with direction fields.

- CLO#2: Solve separable, linear, first, and second order differentiable equations. (ILO: Quantitative Literacy & Reasoning)
- CLO#3: Model various natural phenomena with differential equations

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

LECTURE PORTION: A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term. LECTURE/LAB PORTION: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MTH 261 - Linear Algebra

5 Credit(s)

Prerequisite(s):

MTH 251Z and MTH 252Z

Course Description: First course in linear algebra for science, mathematics, and engineering students. Includes both the theoretical and practical realms of systems of linear equations, matrices, determinants, vector spaces, inner product spaces, eigenvalues and eigenvectors.

Course Learning Outcomes:

- CLO#1: Demonstrate various matrix operations including determinants. (ILO: Quantitative Literacy & Reasoning)
- CLO#2: Demonstrate skill with vector spaces, subspaces and their applications.
- CLO#3: Demonstrate skill with inner product spaces and their applications.
- CLO#4: Demonstrate skill with Eigen vectors and values and their applications.

Typical Required and Recommended Equipment and Materials: Accompanying Student's Solution Manual workbook.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

LECTURE PORTION: A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term. LECTURE/LAB PORTION: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MTH 280 - CWE - Math

Var. (1-12) Credit(s)

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their program. Together, the Instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, students should complete this course within the last two terms

of a certificate or degree program. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate the ability to successfully complete the interview process. (ILO: Communication)
- CLO#2: Demonstrate the importance of completing forms accurately and meeting deadlines.
- CLO#3: Demonstrate the importance of an acceptable work ethic as described in the CWE Work Ethic and Professional Presence Guidelines and student's learning objectives.
- CLO#4: Demonstrate good work performance (student's learning objectives).
- CLO#5: Follow instructions and meet deadlines.
- CLO#6: Demonstrate a professional presence as described in the CWE Work Ethic and Professional Presence Guidelines while on the job.
- CLO#7: Apply program knowledge, theories, principles, methods and technology. Gain new knowledge, skills, and experience while on the job.
- CLO#8: Make contacts which will help in obtaining employment.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

STAT 243Q - Corequisite Support for STAT243Z

1 Credit(s)

Corequisite(s): STAT 243Z

Course Description: This support course focuses on the foundational skills and concepts needed to be persistent and successful in STAT 243Z probability and statistics. In an interactive setting, students will receive appropriate support in quantitative and algebraic reasoning, reading comprehension, statistics notation, problem solving, technology, and study skills. Course grade based on participation and attendance and designed to match main course grade.

Course Learning Outcomes:

- CLO#1: Demonstrate relevant skills to effectively engage with the concepts and skills needed in STAT243Z. (ILO: Quantitative Literacy & Reasoning)
- CLO#2: Utilize study habits and learning strategies that promote success in STAT243Z.
- CLO#3: Analyze, communicate, and interpret results in context.

Typical Required and Recommended Equipment and Materials: Graphing calculator.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

LECTURE/LAB PORTION: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

STAT 243Z - Elementary Statistics I

4 Credit(s)

Prerequisite(s):

MTH 95 or MTH 96 or designated placement.

Corequisite(s):

STAT 243Q for non-STEM students.

Course Description: A first course in statistics focusing on the interpretation and communication of statistical concepts. Introduces exploratory data analysis, descriptive statistics, sampling methods and distributions, point and interval estimates, hypothesis tests for means and proportions, and elements of probability and correlation. Technology will be used when appropriate. Course is graded A through F. Formerly offered as MTH 243.

Course Learning Outcomes:

CLO#1: Students will be able to critically read, interpret, report, and communicate the results of a statistical study along with evaluating assumptions, potential for bias, scope, and limitations of statistical inference.

CLO#2: Students will be able to produce and interpret summaries of numerical and categorical data as well as appropriate graphical and/or tabular representations.

CLO#3: Students will use the distribution of sample statistics to quantify uncertainty and apply the basic concepts of probability into statistical arguments. (ILO: Quantitative literacy & reasoning)

CLO#4: Students will be able to identify, conduct, and interpret appropriate parametric hypothesis tests.

CLO#5: Students will be able to assess relationships in quantitative bivariate data.

Typical Required and Recommended Equipment and Materials: Graphing calculator TI-84

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

LECTURE PORTION: A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term. LECTURE/LAB PORTION: A required state minimum of (20) and a standard RCC delivery of (22) lab hours per term, not to exceed (24) hours per term.

Music

MUS 101 - Music Fundamentals

3 Credit(s)

Course Description: Focuses on reading and writing basic music notation. Examines the fundamentals of tonal music including the key signatures, scales, circle of fifth, modes, rhythm, intervals, triads, and seventh chords. Emphasizes terminology and basic musical concepts.

Course Learning Outcomes:

CLO#1: Demonstrate fluency in reading and writing notations in both treble clef and bass clef. (ILO: Critical Thinking)

- CLO#2: Identify types of scales both on paper and by listening.
CLO#3: Demonstrate an understanding of rhythm in basic meters.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MUS 105 - Music Appreciation

3 Credit(s)

Prerequisite(s):

WR 115 (and WR 115Q as required based on placement), or designated placement

Course Description: Introduces the history and repertory of Western classical music. Through guided listening, students will develop both an aural and an intellectual understanding of music while emphasizing the political, cultural, and scientific values that have shaped the history of Western music.

Course Learning Outcomes:

- CLO#1: Identify the style and genre of a given music. (ILO: Critical Thinking)
CLO#2: Discuss the political and cultural values that shaped the music of a given genre.
CLO#3: Identify basic musical elements including melody, accompaniment, dynamics, texture, and rhythm.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MUS 111 - Music Theory I

3 Credit(s)

Prerequisite(s):

MUS111, MUS 112, MUS 113 must be taken in sequence, unless Instructor permission is granted.

Corequisite(s):

WR 115 or designated placement, and MUS 114

WR 115Q as required

Course Description: Examines the fundamentals of music theory including pitch and pitch class, simple meter and compound meter, scales including major and minor scales and diatonic modes, intervals, chords, and voice leading.

Course Learning Outcomes:

- CLO#1: Identify simple meter and compound meter.
- CLO#2: Describe all major and minor keys and their relationship. (ILO: Critical Thinking)
- CLO#3: Compose all major, minor, and seventh chords.
- CLO#4: Explain the principles of voice-leading.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MUS 112 - Music Theory II**3 Credit(s)****Prerequisite(s):**

MUS 111

(MUS 111, MUS112, MUS 113 courses must be taken in sequence, unless Instructor permission is granted.)

Corequisite(s):

MUS 115

Course Description: MUS112 continues the examination of tonal music including harmonic analysis in a key/tonal context, harmonic progressions, realizing a figured bass, part-writing procedures, and introduction of cadences.

Course Learning Outcomes:

- CLO#1: Demonstrate an understanding of the principles of counterpoint.
- CLO#2: Describe and construct various types of cadences. (ILO: Critical Thinking)
- CLO#3: Explain part-writing procedures.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MUS 113 - Music Theory III**3 Credit(s)****Prerequisite(s):**

MUS 112 (MUS 111, MUS 112, and MUS113 must be taken in sequence, unless Instructor permission is granted.)

Corequisite(s):

MUS 116

Course Description: MUS113 continues the examinations of music theory including Chromatic Harmony; Motives, Phrases and Periods; Harmonic Functions; Harmonic Progressions and Circle of Fifths; Secondary Chords and Tonicization; Mode Mixture; and Modulation. Emphasis is on concepts of contextual analysis.

Course Learning Outcomes:

- CLO#1: Identify motives, phrases, and periods. (ILO: Critical Thinking)
- CLO#2: Explain harmonic functions in various contexts.
- CLO#3: Demonstrate an understanding of secondary chords and tonicization.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MUS 114 - Aural Skills I**1 Credit(s)****Prerequisite(s):**

MUS114, MUS 115, MUS 116 must be taken in sequence, unless Instructor permission is granted. This Aural Skills sequence should be taken concurrently with the Music Theory sequence of MUS 111, MUS 112, MUS 113.

Corequisite(s):

WR 115 or designated placement, and MUS 111

WR 115Q as required

Course Description: This first of a three-term sequence of courses provides instruction and practice in beginning sight-reading, sight-singing, and ear-training. It includes melodic and rhythmic dictation as well as intervallic recognition. It covers the fundamental concepts of rhythm, meter, major and minor tonalities, diatonic and modal scales, triads and seventh chords, and cadences. This course is designed to be taken with MUS 111 concurrently.

Course Learning Outcomes:

- CLO#1: Demonstrate an ability to recognize various pitches and intervals.
- CLO#2: Demonstrate an ability to dictate simple melodies and rhythm. (ILO: Critical Thinking)
- CLO#3: Exhibit an ability to sight-read simple melodies.
- CLO#4: Demonstrate an understanding of the fundamental concepts of major and minor tonalities.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (24) hours per term.

MUS 115 - Aural Skills II

1 Credit(s)

Prerequisite(s):

MUS 114 (MUS 114, MUS115, MUS 116 must be taken in sequence, unless Instructor permission is granted.) This Aural Skills sequence should be taken concurrently with the Music Theory sequence of MUS 111, MUS 112, MUS 113.

Corequisite(s):

MUS 112

Course Description: This second of a three-term sequence provides instruction and practice in intermediate sight-reading, sight-singing, and ear-training. It includes melodic and rhythmic dictation as well as intervallic recognition. It covers more variety of rhythm, simple and compound meter, major and minor tonalities, diatonic and modal scales, triads and seventh chords, and cadences. This course is designed to be taken with MUS 112 concurrently.

Course Learning Outcomes:

CLO#1: Demonstrate an ability to identify various pitches and intervals.

CLO#2: Demonstrate an ability to dictate melodies in various keys and rhythms. (ILO: Critical Thinking)

CLO#3: Demonstrate an ability to sight-sing music in various keys and rhythms.

CLO#4: Demonstrate an ability to recognize types of chords.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (24) hours per term.

MUS 116 - Aural Skills III

1 Credit(s)

Prerequisite(s):

MUS 115 (MUS 114, MUS 115, MUS116 must be taken in sequence, unless Instructor permission is granted.) This Aural Skills sequence should be taken concurrently with the Music Theory sequence of MUS 111, MUS 112, MUS 113.

Corequisite(s):

MUS 113

Course Description: This third of a three-term sequence provides instruction and practice in more advanced sight-reading, sight-singing, and ear-training. It includes more complex melodic and rhythmic dictation as well as wider intervallic recognition. It covers more variety of rhythm, simple and compound meter, major and minor tonalities, diatonic scales and modal scales, triads

and seventh chords, and cadences. Non-chord tones and secondary dominant chords will be explored. This course is designed to be taken with MUS 113 concurrently.

Course Learning Outcomes:

- CLO#1: Demonstrate an ability to dictate complex melodies based on various intervallic structures and keys. (ILO: Critical Thinking)
- CLO#2: Demonstrate an ability to dictate complex rhythm based on various meters.
- CLO#3: Demonstrate an ability to sight-sing and sight-read with accuracy.
- CLO#4: Demonstrate an understanding of non chord tones and secondary dominant chords.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

MUS 118 - Popular Music Ensemble

1 Credit(s)

Prerequisite(s):

Ability to read music or play by ear. Some instruments are provided but many will need to be supplied by the student. Please check with the Instructor on equipment that is available or can be checked out.

Course Description: Commercial Music Ensemble is a performance and recording based ensemble that rehearses and performs repertoire from popular music styles. The ensemble includes vocalists, guitarists, bassists, keyboard/pianists, drummers/percussionists, strings, horns, and more. Membership in the ensemble is open to all students and those in the community. Students will have the opportunity to learn the language of popular music style, chart arranging and stylistic interpretation. Performances will occur at RCC and in the community. Course can be repeated for up to 12 credits.

Course Learning Outcomes:

- CLO#1: Demonstrate an ability to play with others in harmony. (ILO: Communication)
- CLO#2: Demonstrate an understanding of stylistic idioms and practical application.
- CLO#3: Exhibit an understanding of rehearsal and performance techniques and etiquette in an ensemble setting.

Typical Required and Recommended Equipment and Materials: Instrument and required accessories (cables, picks, etc), folder, pencil, and drafting eraser.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per credit per term, not to exceed (36) hours per credit per term.

MUS 119 - Jazz Combo

1 Credit(s)

Prerequisite(s):

Ability to read music. Basic understanding of musical terms and markings. Basic skills in playing one's instrument.

Course Description: Jazz Combo is a performance-based ensemble that rehearses and performs repertoire from jazz and popular music styles in the jazz idiom. The ensemble includes saxophones, trumpets, trombones, pianists, bassists, guitarists, drummers/percussionists, strings, vocalists and more. Students will explore the language of jazz in small sized combos, improvisation, chart arranging and stylistic interpretation. Membership in the ensemble is open to all students and those in the community. Performances will occur at RCC and in the community. Course can be repeated up to 12 credits.

Course Learning Outcomes:

CLO#1: Demonstrate an understanding stylistic idioms and practical application. (ILO: Critical Thinking)

CLO#2: Demonstrate an ability to perform with others in harmony.

CLO#3: Exhibit rehearsal and performance techniques and etiquette in an ensemble setting.

Typical Required and Recommended Equipment and Materials: Instrument and required accessories (cables, picks, etc), folder, pencil, and drafting eraser.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per credit per term, not to exceed (36) hours

MUS 131 - Class Piano I

2 Credit(s)

Course Description: Provides group instruction for beginning and intermediate piano. Focuses on the development of basic piano skills, note-reading, rhythm, scales, chords, and the introduction to related musical concepts. Contents and expected learning proficiencies of this course may vary from term to term. No previous piano experience required. Course may be repeated for six credits total.

Course Learning Outcomes:

CLO#1: Develop and display basic piano skills.

CLO#2: Demonstrate ability to read and play piano music of difficulty appropriate for skill level.

CLO#3: Demonstrate facility with simple scale patterns and chords using proper fingering and technique. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

MUS 132 - Class Piano II

2 Credit(s)

Prerequisite(s):

MUS 131 or equivalent piano experience.

Course Description: Provides group instruction for beginning and intermediate piano. Focuses on the development of basic piano skills, note-reading, rhythm, scales, chords, and the introduction to related musical concepts. Contents and expected learning proficiencies of this course may vary from term to term. Course may be repeated for six credits total.

Course Learning Outcomes:

CLO#1: Develop and display basic piano skills.

CLO#2: Demonstrate ability to read and play piano music of difficulty appropriate for skill level. (ILO: Communication)

CLO#3: Develop ability to accompany simple songs by choosing appropriate chords and chord patterns.

CLO#4: Demonstrate facility with simple scale patterns and chords using proper fingering and technique.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

MUS 133 - Class Piano III

2 Credit(s)

Prerequisite(s):

MUS 132 or equivalent piano experience.

Course Description: Provides group instruction for beginning and intermediate piano. Focuses on the development of basic piano skills, note-reading, rhythm, scales, chords, and the introduction to related musical concepts. Contents and expected learning proficiencies of this course may vary from term to term. Course may be repeated for six credits total.

Course Learning Outcomes:

CLO#1: Develop and display basic piano skills.

CLO#2: Demonstrate ability to read and play piano music of difficulty appropriate for skill level. (ILO: Communication)

CLO#3: Develop ability to accompany simple songs by choosing appropriate chords and chord patterns.

CLO#4: Demonstrate facility with simple scale patterns and chords using proper fingering and technique.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

MUS 135 - Beginning Hand Drums**2 Credit(s)**

Course Description: Provides students hands-on experience with a variety of hand percussion instruments from around the world. Emphasis is on basic techniques and rhythms to facilitate musical performance in a group setting. May be repeated up to four credits.

Course Learning Outcomes:

CLO#1: Demonstrate music skills which will enable the student to attain greater fluency on his or her instrument.

CLO#2: Explain musical symbols and terminology.

CLO#3: Participate as a member of a team by performing as part of a large ensemble.

CLO#4: Explain and demonstrate musical structure in a variety of percussion styles. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

MUS 136 - Introduction to Ukulele**2 Credit(s)**

Course Description: Introduction to Ukulele covers the basic principles of playing and performing on the ukulele. Students will learn the basic anatomy, how to tune, and the beginning techniques of the instrument. Also covered are reading both music notation and tab as well as fingering methods, right hand-picking styles and techniques specific to the ukulele. Students will learn how to accompany other musicians in various musical settings. May be repeated for up to six credits.

Course Learning Outcomes:

CLO#1: Exhibit an understanding of a basic technique of playing the instrument.

CLO#2: Demonstrate an ability to read and play the instrument based on musical notation and tablature. (ILO: Critical Thinking)

CLO#3: Demonstrate an ability to accompany other musicians.

Typical Required and Recommended Equipment and Materials: Ukulele, folder, pencil, drafting eraser.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

MUS 137 - Group Guitar - Beginning

2 Credit(s)

Course Description: Covers the basic construction of the guitar, principles of tuning, maintenance, and treatment of the instrument. Also covered are key signatures, scales, primary chords and their structures, as well as fingering methods, right hand picking styles and techniques specific to the guitar. Students will learn how to accompany solo and group singing, and learn skills needed to translate music and methods for solving problems common to guitar players. May be repeated up to six credits.

Course Learning Outcomes:

CLO#1: Display knowledge of the fret board.

CLO#2: Accompany simple songs by choosing appropriate chords and chord patterns. (ILO: Critical Thinking)

CLO#3: Display basic music reading skills.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

MUS 138 - Group Guitar - Intermediate

2 Credit(s)

Prerequisite(s):

MUS 137 or equivalent experience.

Course Description: Enables students to create more complicated common style arrangements to folk, blues, and popular song styles by adding melody notes and bass runs to open chords. Students will also learn accompanying styles to a much broader range of song types, the use of more sophisticated chords and voicings, and the use of barre chords affording the guitarist the ability to play in any key. May be repeated up to six credits.

Course Learning Outcomes:

CLO#1: Display the ability to accompany a broad range of song styles.

CLO#2: Create more complicated guitar arrangements by adding bass runs and open chords. (ILO: Critical Thinking)

CLO#3: Display intermediate music reading skills.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

MUS 142 - Music Technology I

3 Credit(s)

Course Description: Music Technology I is an introduction to audio and music production. Students will use and develop an understanding of what is a DAW, how to use and manipulate audio files, the use of plugins, outboard gear such as interface and surface controllers, and production and delivery of music digitally.

Course Learning Outcomes:

- CLO#1: Demonstrate an ability to use the basic features of a Digital Audio Station (DAW).
(ILO: Critical Thinking)
- CLO#2: Exhibit an understanding of the individual function and application of plug-ins.
- CLO#3: Demonstrate an ability to deliver project files in various audio formats.
- CLO#4: Demonstrate an ability to use and manipulate loops and audio files in music creation.

Typical Required and Recommended Equipment and Materials: Portable External Drive, Closed back/earbud wired headphones, Notebook, and Pencils.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term

MUS 143 - Music Technology II

3 Credit(s)

Prerequisite(s):

MUS 142 or permission of Instructor.

Course Description: Music Technology II is a continuation of MUS 142. This course explores and expands on Daws, plug-ins and audio files editing while starting to explore MIDI and Virtual Instruments. Students will have the opportunity to program, enter and record MIDI, learn to control and operate virtual instruments/plugin-ins and integrate it alongside audio files in the DAW.

Course Learning Outcomes:

- CLO#1: Demonstrate an ability to program, manipulate, and record MIDI. (ILO: Critical Thinking)
- CLO#2: Demonstrate an ability to use and integrate Virtual Instruments into a session.
- CLO#3: Demonstrate an ability to integrate virtual instruments and MIDI files to create music.

Typical Required and Recommended Equipment and Materials: Portable External Drive, Closed back/earbud wired headphones, Notebook, and Pencils.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term

MUS 144 - Music Technology III Techniques

3 Credit(s)

Prerequisite(s):

MUS 143 or permission of Instructor.

Course Description: Music Technology III is a continuation of MUS 143. This course explores and expands on recording our own audio, common practices to capture audio at the source, and audio production and editing after the recording. Students will have the opportunity to record in both live and studio settings, learn to place mics and capture audio, organize a session, cable/audio/session management and postproduction inside a DAW.

Course Learning Outcomes:

- CLO#1: Demonstrate an ability to use various Mic techniques to capture audio. (ILO: Critical Thinking)
- CLO#2: Demonstrate an ability to compose a series of takes in a session to create a performance.
- CLO#3: Demonstrate an ability to manage audio sources, I/O in the DAW and Audio Interface.

Typical Required and Recommended Equipment and Materials: A combination of lecture, class discussion, individual and group activities. Students will be responsible for projects, midterm, and final projects.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term

MUS 150 - Rogue Chorus

1 Credit(s)

Course Description: Rogue Chorus is open to singers of all levels at RCC and from the community. It provides an opportunity for students to explore choral repertoire of diverse musical styles and genres. No audition required. Repeatable up to 12 credits.

Course Learning Outcomes:

- CLO#1: Sing choral parts in pitch.
- CLO#2: Sing choral parts in correct rhythm.
- CLO#3: Execute dynamic and expressive markings as written in the music score and as directed by choir director. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Recording app and metronome app recommended.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

MUS 151 - Riverside Chorus

1 Credit(s)

Course Description: Riverside Chorus is open to singers with basic music knowledge. It provides an opportunity for students to explore choral repertoire of diverse musical styles and genres. No audition required. Repeatable up to 12 total credits.

Course Learning Outcomes:

CLO#1: Sing choral parts in pitch.

CLO#2: Sing choral parts in correct rhythm.

CLO#3: Execute dynamic and expressive markings as written in the music score and as directed by choir director. (ILO: Communication)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

MUS 152 - Concert Band

1 Credit(s)

Prerequisite(s):

Prerequisites include the ability to read music, approximately two years playing experience, ownership of a brass or woodwind instrument, and a desire to have fun playing music with others. Some instruments may be available for rent or loan from RCC Music Department. Check with the Instructor.

Course Description: Open to students and community members of all ages. The ensemble plays a variety of both standard and non-standard concert band literature. Concert(s) at the end of the term. Repeatable up to 12 total credits.

Course Learning Outcomes:

CLO#1: Exhibit music skills which will enable the student to attain greater fluency on his or her instrument. (ILO: Communication)

CLO#2: Participate as a member of a team by developing the communicative and interpretive skills necessary for performing as part of an ensemble.

Typical Required and Recommended Equipment and Materials: One's own instrument. Some instruments may be rented or loaned from RCC Music Department. Check with the instructor.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per credit per term, not to exceed (36) hours per credit per term.

MUS 153 - Orchestra

1 Credit(s)

Prerequisite(s):

Ability to read music. Basic understanding of musical terms. Basic skills in playing one's instrument. Ownership of one's instrument. RCC Music Department may have opportunities for students to rent or loan an instrument. Consult with the Instructor.

Course Description: Orchestra explores a variety of music from different musical periods. It is open to all the students at Rogue Community College as well as the community members who play string, wind, brass, and percussion instruments. Perform in the concert at the end of each term. Repeatable up to 12 credits.

Course Learning Outcomes:

CLO#1: Demonstrate an ability to play with others in harmony. (ILO: Communication)

CLO#2: Demonstrate an ability to follow the direction of a conductor.

Typical Required and Recommended Equipment and Materials: Ownership of one's own instrument. RCC Music Department may have opportunities for students to rent or loan an instrument. Consult with the instructor. Pencils, a metronome (metronome app is fine), and a binder to keep all the music

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per credit per term, not to exceed (36) hours per credit per term.

MUS 158 - Chamber Music Ensemble

1 Credit(s)

Course Description: Provides an opportunity for instrumentalists to explore, practice, and perform chamber music repertoire. Includes conducted and coached rehearsals for public performance. Covers repertoire for chamber group (duo-octet), small ensembles, and chamber orchestra. Requires the ability to read music. Must play a musical instrument. Singers considered. Repeatable up to (12) credits.

Course Learning Outcomes:

CLO#1: Develop music reading skills.

CLO#2: Develop a steady sense of tempo to play together with others. (ILO: Communication)

CLO#3: Play music with correct rhythm in time.

CLO#4: Play music with correct dynamics according to the score.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

MUS 199 - Special Studies - Music

Var. (1-3) Credit(s)

Prerequisite(s):

Varies by course.

Course Description: Serves a variety of needs and interests, and is used to develop a music course focused around various themes, in keeping with the department mission to increase students' literacy, awareness of cultures and different cultural values, critical thinking, and self-awareness. The course is offered in a number of formats: workshop, seminar, or independent study and may be repeated for up to six credits.

Course Learning Outcomes:

CLO#1: Varies based on course focus.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per credit per term, not to exceed (12) hours per credit per term.

MUS 199L - Special Studies - Music Lab

Var. (1-3) Credit(s)

Prerequisite(s):

Varies by course.

Course Description: Serves a variety of needs and interests, and is used to develop a music course focused around various themes, in keeping with the department mission to increase students' literacy, awareness of cultures and different cultural values, critical thinking, and self-awareness. The course is offered in a number of formats: workshop, seminar, or independent study, and may be repeated for up to six credits.

Course Learning Outcomes:

CLO#1: Varies based on course focus.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard RCC delivery of (33) lab hours per credit per term, not to exceed (36) hours per credit per term.

MUS 201 - Intro to Music History

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: This course explores the history of Western European music from the Middle Ages to the 20th century. It is an overview of musical genres, styles, forms, and practices that were embraced in each period. Examines the way historical events, cultural trends, or technical inventions affected the musical trend in each era. Emphasis is on cultivating critical listening and comprehension skills through musical examples, learning from lectures, documentaries, recordings, and reading of the textbook. No musical background is required. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

CLO#1: Explain basic vocabulary of musical terms such as timbre, harmony, melody, homophony, etc.

CLO#2: Display critical listening and comprehension skills in music.

CLO#3: Describe the general characteristics of European music of the various historical periods. (ILO: Critical Thinking)

CLO#4: Explain the major forms and genres of Western European music.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MUS 205 - History of Jazz

3 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: This course surveys Jazz styles from its origins to the present as revealed through the study of the most innovative and influential artists of this uniquely American musical form. Emphasis is placed on building critical listening and comprehension skills through listening to musical examples, in-class discussion, quizzes, class assignments, research, and reading of the text. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

CLO#1: Describe the important elements of jazz music upon listening to a live or recorded performance.

CLO#2: Describe the main style periods of jazz and their characteristics. (ILO: Critical Thinking)

CLO#3: Identify the most important innovators and artists of jazz music and explain their contributions to the history and development of jazz as a genre.

CLO#4: Describe the roles of the various cultures and their style of music that have contributed to the formation of jazz as the uniquely American musical genre (African, Latin, and European).

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MUS 206 - Introduction to Rock Music

3 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: This course offers a survey of history of rock music as the unique and prominent musical genre of the United States from its origins to the present. Explores the most innovative and influential artists of rock music as well as their performing and compositional style. Emphasis is placed on building critical listening and comprehension skills through listening to musical examples, in-class discussion of the music, quizzes, assignments, research, and reading of the text. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

CLO#1: Describe the important musical elements of rock music upon listening to a live or recorded performance.

CLO#2: Describe the musical characteristics of rock and roll and its sub-genres in each of the main stylistic periods. (ILO: Critical Thinking)

CLO#3: Identify the most important innovators and artists of rock and roll and describe their contributions to the development of Rock as a prominent musical genre in the U.S.

CLO#4: Describe the various cultures and their musical styles that have contributed to the formation of Rock music as a uniquely American musical genre.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MUS 207 - Songwriting

3 Credit(s)

Prerequisite(s):

MUS 111 or MUS 101 or permission of Instructor.

Course Description: Songwriting is an introduction to the techniques and styles of popular music songwriting. This course provides students the opportunity to freely explore lyric writing, crafting melodies and hooks, effective use of harmony, and common song structures to successfully create their songs. Students will create their own works through basic lead sheets and workshop them with the class.

Course Learning Outcomes:

CLO#1: Demonstrate an ability to write a lead sheet. (ILO: Critical Thinking)

CLO#2: Demonstrate an ability to craft a coherent lyric using the tools and skills that students learn in this course.

CLO#3: Demonstrate an ability to set a melody and lyric to a series of appropriate harmony.

Typical Required and Recommended Equipment and Materials: Notebook/Journal, Staff paper, pencils, drafting eraser, folder, and headphones.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MUS 208 - Film Music

3 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: This course introduces a wide variety of genres and styles of film including, but not limited to, early movies, the golden age of Hollywood, thrillers, musicals, independent films, foreign films, dramas, period films and current blockbusters. Students will examine the wide variety of musical styles (classical, jazz, electronic, world, etc.) that helped define these genres and make them part of popular culture. Through watching carefully selected films that represent the history of film-making with music, students will develop a basic understanding of the evolutionary development of film music as well as how powerful the collaboration between film and music can be. It also explores the way historical events, cultural trends, and/or technical inventions affected the collaboration between film and music. No prior knowledge of music is necessary. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

CLO#1: Explain the power of music in enhancing the story and defining the emotion of a character.

CLO#2: Describe the elements of music that contribute to creating mood in a scene. (ILO: Critical Thinking)

CLO#3: Identify the major composers and their works and styles in film.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MUS 210 - Music in World Cultures**4 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces music from various cultures with an international and cross-cultural perspective. Explores both commonalities and differences in how music is defined, valued, and utilized in many cultures around the world. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Formerly offered as MUS108.

Course Learning Outcomes:

CLO#1: Identify various musical styles and their cultural origins, evaluating commonalities within genres. (ILO: Critical Thinking)

CLO#2: Explain musical terms and their applications.

CLO#3: Describe the variety of musical styles and performances.

CLO#4: Analyze musical characteristics across cultures to evaluate diverse styles and practices.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MUS 211 - Music Theory IV**3 Credit(s)****Prerequisite(s):**

MUS 111 and MUS 112 and MUS 113.

(MUS211, MUS 212, MUS 213 courses must be taken in sequence, unless Instructor permission is granted.)

Corequisite(s):

MUS 224

Course Description: Continues MUS 111, MUS 112 and MUS 113. Offers students a clear and thorough introduction to the resources and practice of Western music with a focus on formal and harmonic analysis. Examines a variety of compositional forms of Baroque & Classical eras and explores the ways that their renderings live in the music of our time. Topics include the study of binary, ternary, rounded binary, sonata-allegro (or first movement form), rondo, and fugue.

Course Learning Outcomes:

CLO#1: Demonstrate an ability to recognize binary, rounded binary, ternary, sonata-allegro, rondo form and fugue by looking at the music and also by listening to the music. (ILO: Critical Thinking)

CLO#2: Demonstrate an understanding of the formal structure of sonata-allegro.

CLO#3: Demonstrate an ability to recognize modulations on paper and by listening.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MUS 212 - Music Theory V

3 Credit(s)

Prerequisite(s):

MUS 211

(MUS 211, MUS212, MUS 213 courses must be taken in sequence, unless Instructor permission is granted.)

Corequisite(s):

MUS 225

Course Description: Offers students a clear and thorough introduction to the resources and practice of Western music with a focus on the music of the Classical and Romantic periods and the ways that their renderings apply to music of our time. Forms to examine include rondo and variation. Includes study of extended tertial harmony (9th, 11th, 13th chords), altered dominants, chromatic mediants, and enharmonic modulation.

Course Learning Outcomes:

CLO#1: Demonstrate an ability to identify Rondo and Variations on paper and by listening.

CLO#2: Demonstrate an ability to identify and describe altered chords. (ILO: Critical Thinking)

CLO#3: Demonstrate an understanding of enharmonic modulations.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MUS 213 - Music Theory VI

3 Credit(s)

Prerequisite(s):

MUS 212

(MUS 211, MUS 212, MUS213 courses must be taken in sequence, unless Instructor permission is granted.)

Corequisite(s):

MUS 226

Course Description: Expands upon the elements of the practice of Western music harmony and introduces concepts, styles, and techniques of post-tonal theory of the 20th century music.

Course Learning Outcomes:

CLO#1: Describe and identify the music and harmony of the twentieth century.

CLO#2: Describe the concepts, styles, and techniques of post-tonal theory of the 20th century music. (ILO: Critical Thinking)

CLO#3: Identify and describe the non-diatonic scales used by the composers of post-tonal era.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MUS 224 - Aural Skills IV

1 Credit(s)

Prerequisite(s):

MUS 116

(MUS224, MUS 225, and MUS 226 must be taken in sequence, unless Instructor permission is granted.)

Corequisite(s):

MUS 211

(This Aural Skills sequence should be taken concurrently with the Music Theory sequence of MUS 211, MUS 212, and MUS 213.)

Course Description: Aural Skills IV is a continuation of MUS 116 and serves to augment the subject matter in MUS 211 with an emphasis on musical aural/oral training. Students develop their ability to hear, identify, and sing intervallic, tertial, melodic, harmonic, and rhythmic patterns in music. Through in-class study and drill, combined with out-of-class computer-assisted learning and self-guided practice, students will develop skills in sight singing and aural transcription with a focus on dominant and non-dominant seventh chords in all positions, leading tone seventh chords in root position, and perceiving tonicization and modulation in chord progressions and melodies. This course is designed to be taken with MUS 211 concurrently.

Course Learning Outcomes:

- CLO#1: Aurally identify and sing examples of simple and compound intervals, major and minor scales, triadic chord qualities, dominant/non-dominant/leading-tone 7th-chord qualities, secondary dominant/leading-tone 7th-chords, modulations to near keys, and simple/compound time signatures. (ILO: Critical Thinking)
- CLO#2: Transcribe melodic, harmonic, and rhythmic material from dictated music examples.
- CLO#3: Sight-sing/transcribe tonal melodies and chord progressions (both modulating and non-modulating), and rhythmic exercises.
- CLO#4: Recognize musical patterns and detect errors in music examples.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (24) hours per term.

MUS 225 - Aural Skills V

1 Credit(s)

Prerequisite(s):

MUS 224

(MUS 224, MUS225, and MUS 226 must be taken in sequence, unless Instructor permission is granted.)

Corequisite(s):

MUS 212

(This Aural Skills sequence should be taken concurrently with the Music Theory sequence of MUS 211, MUS 212, and MUS 213.)

Course Description: Aural Skills V is a continuation of MUS 224 and serves to augment the subject matter in MUS 212 with an emphasis on musical aural/oral training. Students develop their ability to hear, identify, and sing intervallic, tertial, melodic, harmonic, and rhythmic patterns in music. Through in-class study and drill, combined with out-of-class computer-assisted learning and self-guided practice, students will develop skills in sight singing and aural transcription with a focus on harmonies through secondary dominant and leading tone. This course is designed to be taken with MUS 212 concurrently.

Course Learning Outcomes:

- CLO#1: Aurally identify and sing examples of simple and compound intervals, major and minor scales, triadic chord qualities, dominant/non-dominant/leading-tone 7th-chord qualities, secondary dominant/leading-tone 7th-chords, modulations to near keys, and simple/compound time signatures. (ILO: Critical Thinking)
- CLO#2: Transcribe melodic, harmonic, and rhythmic material from dictated music examples.
- CLO#3: Sight-sing/transcribe tonal melodies and chord progressions (both modulating and non-modulating), and rhythmic exercises.
- CLO#4: Recognize musical patterns and detect errors in music examples.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (24) hours per term.

MUS 226 - Aural Skills VI**1 Credit(s)****Prerequisite(s):**

MUS 225

(MUS 224, MUS 225, and MUS226 must be taken in sequence, unless Instructor permission is granted.)

Corequisite(s):

MUS 213

(This Aural Skills sequence should be taken concurrently with the Music Theory sequence of MUS 211, MUS 212, and MUS 213.)

Course Description: Aural Skills VI is a continuation of MUS 225 and serves to augment the subject matter in MUS 213 with an emphasis on musical aural/oral training. Students develop their ability to hear, identify, and sing intervallic, tertial, melodic, harmonic, and rhythmic patterns in music. Through in-class study and drill, combined with out-of-class computer-assisted learning and self-guided practice, students will develop skills in sight singing and aural transcription with a focus on harmonies through secondary dominant and leading tone. This course is designed to be taken with MUS 213 concurrently.

Course Learning Outcomes:

CLO#1: Exhibit an understanding of chromatic harmonies including secondary dominants and modulations. Aurally identify and sing examples of simple and compound intervals, major and minor scales, triadic chord qualities, dominant/non-dominant/leading-tone 7th-chord qualities, secondary dominant/leading-tone 7th-chords, modulations to near keys, and simple/compound time signatures. (ILO: Critical Thinking)

CLO#2: Transcribe melodic, harmonic, and rhythmic material from dictated music examples.

CLO#3: Sight-sing/transcribe tonal melodies and chord progressions (both modulating and non-modulating), and rhythmic exercises.

CLO#4: Recognize musical patterns and detect errors in music examples.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture-lab hours per term, not to exceed (24) hours per term.

MUS 261 - History of Western Music I**4 Credit(s)****Prerequisite(s):**

WR 115 or designated placement, and MUS 101 or knowledge of music fundamentals and the ability to read music.

WR 115Q as required

Course Description: This course studies the history of Western music with a focus on the development of music from the antiquity, the Middle Ages, Renaissance, and Baroque Period. It will examine musical genres, forms, styles, and practices that were embraced in each period. It will also explore the way that historical events, cultural trend, and/or technical inventions affected the musical trend of each era. The emphasis is on cultivating critical listening and comprehension skills through musical examples, learning from lectures, documentaries, recordings, and reading of the textbook.

Course Learning Outcomes:

- CLO#1: Explain musical terms, including tempo markings and various musical textures.
- CLO#2: Describe the major genres, styles, forms, characteristics of music and performance practices embraced during each of the periods. (ILO: Critical Thinking)
- CLO#3: Display critical listening and comprehension skills in music.
- CLO#4: Identify the major composers, their works, styles, and musical innovations from each period.
- CLO#5: Describe the development of music and the changing musical trends affected by historical events, cultural trends, and/or technical inventions throughout the periods covered in this class.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MUS 262 - History of Western Music II

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement, and MUS 101 or knowledge of music fundamentals and the ability to read music.

WR 115Q as required

Course Description: This course studies the history of Western music with a focus on the development of music from Classical period to Romantic period. It will examine musical genres, forms, and styles that were embraced in each period. Explores the way that historical events, cultural trend, and/or technical inventions affected the musical trend of each era. Emphasis is on cultivating critical listening and comprehension skills through musical examples, learning from lectures, documentaries, recordings, and reading of the textbook.

Course Learning Outcomes:

- CLO#1: Describe the major genres, styles, forms, and characteristics of music embraced during each of the periods. (ILO: Critical Thinking)
- CLO#2: Display critical listening and comprehension skills in music.

CLO#3: Identify the major composers, their works, styles, and musical innovations from each period.

CLO#4: Describe the development of music and the changing musical trends affected by historical events, cultural trends, and/or technical inventions throughout the periods covered in this class.

CLO#5: Explain the musical terms found in tempo and expressive markings in Italian, formal structures, and styles of performance or genres.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MUS 263 - History of Western Music III

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement, and MUS 101 or knowledge of music fundamentals and the ability to read music.

WR 115Q as required

Course Description: This course studies the history of Western music with a focus on the development of music from Late Nineteenth Century, Twentieth-Century Modernism, and Postmodernism (Mid-Twentieth Century and Beyond). Examines innovative compositional techniques, musical genres, forms, and styles that were embraced during each period. Explores the way that historical events, cultural trends, and/or technical inventions affected the musical trend or climate in each era. Emphasis is on cultivating critical listening and comprehension skills through musical examples, learning from lectures, documentaries, recordings, and reading of the textbook.

Course Learning Outcomes:

CLO#1: Explain musical terms found in compositional procedures, forms, harmony, rhythm, and styles of performance, compositions, or genres.

CLO#2: Describe the major genres, styles, forms, new compositional techniques, and characteristics of music embraced during each of the periods. (ILO: Critical Thinking)

CLO#3: Display critical listening and comprehension skills in music.

CLO#4: Describe the development of music and the changing musical trends affected by historical events, cultural trends, exposure to non-western music, and/or technical inventions throughout the periods covered in this class.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

MUS 264 - History of Rock I

3 Credit(s)

Prerequisite(s):

WR 115 or designated placement.

WR 115Q as required

Course Description: This course provides students with an opportunity to explore the musical, social and cultural aspects of rock music from its pre-rock influences and its development through c.1963. Emphasis is placed on building listening and comprehension skills through listening to rock music, in-class discussion of the music, class assignments, research, and reading of the text.

Course Learning Outcomes:

CLO#1: Describe the important elements of a rock performance.

CLO#2: Critique recorded and "live" rock and roll performances.

CLO#3: Explain the characteristics of the main style periods of rock and roll and their sub-genres. (ILO: Critical Thinking)

CLO#4: Identify the most important innovators and artists of rock and roll and what their contributions were.

CLO#5: Identify the roles of the various cultures that have contributed to this musical form- American jazz and blues, African, Latin, and European.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MUS 265 - History of Rock II

3 Credit(s)

Prerequisite(s):

WR 115 or designated placement.

WR 115Q as required

Course Description: This course provides students with an opportunity to explore the musical, social and cultural aspects of rock music from its pre-rock influences and its development from 1964-1975. Emphasis is placed on building listening and comprehension skills through listening to rock music, in-class discussion of the music, class assignments, research, and reading of the text.

Course Learning Outcomes:

CLO#1: Describe the important elements of a rock performance.

CLO#2: Critique recorded and "live" rock and roll performances.

CLO#3: Explain the characteristics of the main style periods of rock and roll and their sub-genres. (ILO: Critical Thinking)

CLO#4: Identify the most important innovators and artists of rock and roll and what their contributions were.

CLO#5: Identify the roles of the various cultures that have contributed to this musical form- American jazz and blues, African, Latin, and European.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

MUS 266 - History of Rock III

3 Credit(s)

Prerequisite(s):

WR 115 or designated placement.

WR 115Q as required

Course Description: This course explores the musical, social and cultural aspects of rock music from c.1975 through the present day. Emphasis is placed on building listening and comprehension skills through listening to rock music, in-class discussion of the music, class assignments, research, and reading of the text.

Course Learning Outcomes:

CLO#1: Describe important elements of a rock performance.

CLO#2: Critique recorded and "live" rock and roll performances

CLO#3: Explain the characteristics of the main style periods of rock and roll and their sub-genres. (ILO: Critical Thinking)

CLO#4: Identify the most important innovators and artists of rock and roll and what their contributions were.

CLO#5: Identify the roles of the various cultures that have contributed to this musical form- American jazz and blues, African, Latin, and European.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

Nutrition

NFM 225 - Nutrition

4 Credit(s)

Prerequisite(s):

Previous coursework in biology is helpful.

Course Description: Covers chemistry of nutrients, digestion, absorption, and utilization in the body. Studies optimal diets, diet fallacies, diet disorders, and how nutrition affects health and

disease.

Course Learning Outcomes:

CLO#1: Describe and apply knowledge of the general properties of the major nutrients and their effect on basic health.

CLO#2: Apply knowledge to personal eating habits, wise consumer food selections and planning a healthy diet.

CLO#3: Describe and explain the general body processes of digestion, absorption, metabolism and excretion.

CLO#4: Explain how foods act as sources of energy and the general principles of sensible weight management.

CLO#5: Apply scientific reasoning in evaluation of current fads and fallacies, advertisements, practices in enrichment and fortification, labeling and supplementation. (ILO: Critical Thinking)

CLO#6: Describe and apply knowledge of nutrition's role in the prevention and treatment of disease.

Typical Required and Recommended Equipment and Materials: computer, paper, pencils, ability to use e-mail.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

Nursing

NRS 110 - Health Promotion

4 Credit(s)

Prerequisite(s):

Completion of all prerequisite / preparatory courses (minimum of 45 credits) and formal acceptance into the RCC AAS nursing program.

Corequisite(s):

NRS 110C

Course Description: This course introduces the learner to framework of the OCNE curriculum. The emphasis on health promotion across the life span includes learning about self-health as well as client health practices. To support self and client health practices, students learn to access research evidence about healthy lifestyle patterns and risk factors for disease/illness, apply growth and development theory, interview clients in a culturally sensitive manner, work as members of a multidisciplinary team giving and receiving feedback about performance, and use reflective thinking about their practice as nursing students. Populations studied in the course include children, adults, older adults and the family experiencing a normal pregnancy. This course includes classroom and clinical learning experiences. The clinical portion of the course includes practice with therapeutic communication skills and selected core nursing skills identified in the OCNE Core Nursing Skills document.

Course Learning Outcomes:

- CLO#1: Conduct a culturally and age-appropriate health assessment, and interpret health data, such as screening for biological and psychosocial health risks, evidence of safe and healthy habits, developmental tasks and vulnerabilities, family functioning. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#2: Develop a plan of care that is family-centered, and developmentally and culturally appropriate, using evidence such as clinical guidelines and integrative literature reviews, to help facilitate a patient's health behavior change.
- CLO#3: Use effective communication to establish a therapeutic patient-centered relationship and advocate for a health behavior change based on assessment of health risks.
- CLO#4: Design and evaluate a health behavior change for self and for a selected patient using relevant evidence and family/cultural data.
- CLO#5: Demonstrate beginning use of selected nursing frameworks, including the legal/ethical base for practice, and their application to the practice of nursing.
- CLO#6: Recognize and report the importance and relevance of reflection on clinical experiences and on competencies and its influence on personal and professional behavior.
- CLO#7: Demonstrate use of effective learning strategies in a performance-based curriculum.
- CLO#8: Demonstrate use of the importance of fulfilling commitments to the team in timely completion of assignments.
- CLO#9: Demonstrate safe and competent practice of the fundamentals of nursing care, and adherence to patient dignity, safety of patient, self and others, asepsis, and infection prevention with each patient encounter.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

NRS 110C - Health Promotion Clinical**5 Credit(s)****Prerequisite(s):**

Completion of all prerequisite / preparatory courses (minimum of 45 credits) and formal acceptance into the RCC AAS nursing program.

Corequisite(s):

NRS 110

Course Description: Clinical associated with NRS 110

Course Learning Outcomes:

- CLO#1: Conduct a culturally and age-appropriate health assessment, and interpret health data, such as screening for biological and psychosocial health risks, evidence of safe and healthy habits, developmental tasks and vulnerabilities, family functioning. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

- CLO#2: Develop a plan of care that is family-centered, and developmentally and culturally appropriate, using evidence such as clinical guidelines and integrative literature reviews, to help facilitate a patient's health behavior change.
- CLO#3: Use effective communication to establish a therapeutic patient-centered relationship and advocate for a health behavior change based on assessment of health risks.
- CLO#4: Design and evaluate a health behavior change for self and for a selected patient using relevant evidence and family/cultural data.
- CLO#5: Demonstrate beginning use of selected nursing frameworks, including the legal/ethical base for practice, and their application to the practice of nursing.
- CLO#6: Recognize and report the importance and relevance of reflection on clinical experiences and on competencies and its influence on personal and professional behavior.
- CLO#7: Demonstrate use of effective learning strategies in a performance-based curriculum.
- CLO#8: Demonstrate use of the importance of fulfilling commitments to the team in timely completion of assignments.
- CLO#9: Demonstrate safe and competent practice of the fundamentals of nursing care, and adherence to patient dignity, safety of patient, self and others, asepsis, and infection prevention with each patient encounter.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (150) and a standard RCC delivery of (165) clinical/lab hours per term, not to exceed (180) hours per term.

NRS 111 - Chronic Nursing I

2 Credit(s)

Prerequisite(s):

NRS 110, NRS 110C

Corequisite(s):

NRS 111C, NRS 230, NRS 232

Course Description: This course introduces assessment and common interventions (including technical procedures) for patients with chronic illnesses common across the life span in multiple ethnic groups. The patient and family's "lived experience" of the condition is explored. Clinical practice guidelines and research evidence are used to guide clinical judgments in care of individuals with chronic conditions. Multidisciplinary team roles and responsibilities are considered in the context of delivering safe, high quality health care to individuals with chronic conditions (includes practical and legal aspects of delegation). Cultural, ethical, legal and health care delivery issues are explored through case scenarios and clinical practice. Case exemplars include children with asthma, adolescents with a mood disorder, adults with type 2 diabetes, and older adults with dementia. The course includes classroom and clinical learning experiences.

Course Learning Outcomes:

- CLO#1: Conduct a health assessment that is patient-centered and family-centered and both developmentally and culturally appropriate, interpret, and use the resulting health data, focusing on:

mental and functional status, ADLs and IADLs
coping/adaptive strategies used by patient/family
lived experience of chronic illness, including recognition of stigma and its impact on
vulnerability and maintaining health,
impact of condition on family functioning, and
specific lab value interpretation and medication concerns such as polypharmacy.

- CLO#2: Provide safe and effective, developmentally and culturally appropriate care to patients with chronic illness including:
safely and effectively assisting clients with ADLs & IADLs,
identifying and providing for comfort needs (physical and emotional),
teaching patients/families about interventions for managing symptoms such as chronic pain, fatigue,
teaching patients/families about self-assessment and self-management in highly prevalent chronic conditions such as (but not limited to) congestive heart failure, dementia, type 2 diabetes, depression, and obesity. (ILO: Information Literacy)
- CLO#3: Develop and implement a patient-centered and family-oriented plan of care for a patient with a chronic illness that incorporates evidence-based intervention strategies, assessment data, child and family developmental considerations, and demonstrates a deep understanding of the patient's perspective and illness experience, within the framework of exacerbation, trajectory, and plateau.
- CLO#4: Apply ANA Code of Ethics and nursing values in the care of persons with a chronic illness or disability.
- CLO#5: Identify roles and functions of members of the health care team in order to provide care for the chronically ill.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture not to exceed (24) hours per term.

NRS 111C - Chronic Nursing I Clinical

4 Credit(s)

Prerequisite(s):

NRS 110, NRS 110C

Corequisite(s):

NRS 111, NRS 230, NRS 232

Course Description: Clinical associated with NRS 111

Course Learning Outcomes:

- CLO#1: Conduct a health assessment that is patient-centered and family-centered and both developmentally and culturally appropriate, interpret, and use the resulting health data, focusing on:
- mental and functional status, ADLs and IADLs
 - coping/adaptive strategies used by patient/family

- lived experience of chronic illness, including recognition of stigma and its impact on vulnerability and maintaining health,
 - impact of condition on family functioning, and
 - specific lab value interpretation and medication concerns such as polypharmacy.
- CLO#2: Provide safe and effective, developmentally and culturally appropriate care to patients with chronic illness including:
- safely and effectively assisting clients with ADLs & IADLs ,
 - identifying and providing for comfort needs (physical and emotional),
 - teaching patients/families about interventions for managing symptoms such as chronic pain, fatigue,
 - teaching patients/families about self-assessment and self-management in highly prevalent chronic conditions such as (but not limited to) congestive heart failure, dementia, type 2 diabetes, depression, and obesity.(ILO:Information Literacy)
- CLO#3: Develop and implement a patient-centered and family-oriented plan of care for a patient with a chronic illness that incorporates evidence-based intervention strategies, assessment data, child and family developmental considerations, and demonstrates a deep understanding of the patient's perspective and illness experience, within the framework of exacerbation, trajectory, and plateau.
- CLO#4: Apply ANA Code of Ethics and nursing values in the care of persons with a chronic illness or disability.
- CLO#5: Identify roles and functions of members of the health care team in order to provide care for the chronically ill.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120) and a standard RCC delivery of (132) clinical/lab hours per term, not to exceed (144) hours per term.

NRS 112 - Acute Care Nursing I

2 Credit(s)

Prerequisite(s):

NRS 110, NRS 110C and NRS 111, NRS 111C

Corequisite(s):

NRS 112C, NRS 231, NRS 233

Course Description: This course introduces the learner to assessment and common interventions (including relevant technical procedures) for care of patients across the life span who require acute care, including normal childbirth. Disease/illness trajectories and their translation into clinical practice guidelines and/or standard procedures are considered in relation to their impact on providing culturally sensitive, patient-centered care. Includes classroom and clinical learning experiences.

Course Learning Outcomes:

- CLO#1: Conduct a culturally and age-appropriate health assessment and interpret health data focusing on physiologic, developmental and behavioral parameters of the disease

- trajectory, normal childbirth, and acute exacerbations of chronic conditions and their resolution, and the patient response to acute conditions/processes.
- CLO#2: Develop plans of care that are family/patient-centered, developmentally and culturally appropriate, using evidence including clinical practice guidelines and integrative literature reviews to implement care plans safely for patients with common acute conditions/processes
- manage common symptoms such as acute pain and acute anxiety
 - follow evidence-based protocols for procedures and performing skills safely
 - use expected illness trajectory to implement patient-centered plans of care,
 - monitor progress toward recovery, occurrence of complications and patient's response to interventions. (ILO: Critical Thinking)
- CLO#3: Identify potential legal and ethical issues related to patient decision-making and informed consent in acute care settings.
- CLO#4: Apply ANA Code of Ethics and Nursing Values to care of patients.
- CLO#5: Use therapeutic communication skills in the development of relationships with patients, families, and the care team. (ILO: Communication)
- CLO#6: Identify roles of the nurse within the healthcare team and roles of all members of the healthcare team, patients, and families.
- CLO#7: Discuss need for delegation of patient care with experienced nurses.
- CLO#8: Demonstrate professional behaviors in all interactions with members of the healthcare team including peers, faculty, and staff.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

NRS 112C - Acute Care Nursing I Clinical

4 Credit(s)

Prerequisite(s):

NRS 110, NRS 110C and NRS 111, NRS 111C

Corequisite(s):

NRS 112, NRS 231, NRS 233

Course Description: Clinical associated with NRS 112

Course Learning Outcomes:

- CLO#1: Conduct a culturally and age-appropriate health assessment and interpret health data focusing on physiologic, developmental and behavioral parameters of the disease trajectory, normal childbirth, and acute exacerbations of chronic conditions and their resolution, and the patient response to acute conditions/processes.
- CLO#2: Develop plans of care that are family/patient-centered, developmentally and culturally appropriate, using evidence including clinical practice guidelines and integrative literature reviews to implement care plans safely for patients with common acute conditions/processes

- manage common symptoms such as acute pain and acute anxiety
- follow evidence-based protocols for procedures and performing skills safely
- use expected illness trajectory to implement patient-centered plans of care,
- monitor progress toward recovery, occurrence of complications and patient's response to interventions. (ILO: Critical Thinking)

CLO#3: Identify potential legal and ethical issues related to patient decision-making and informed consent in acute care settings.

CLO#4: Apply ANA Code of Ethics and Nursing Values to care of patients.

CLO#5: Use therapeutic communication skills in the development of relationships with patients, families, and the care team. (ILO: Communication)

CLO#6: Identify roles of the nurse within the healthcare team and roles of all members of the healthcare team, patients, and families.

CLO#7: Discuss need for delegation of patient care with experienced nurses.

CLO#8: Demonstrate professional behaviors in all interactions with members of the healthcare team including peers, faculty, and staff.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120) and a standard RCC delivery of (132) clinical/lab hours per term, not to exceed (144) hours per term.

NRS 199 - Special Studies - Nursing

Var. (1-3) Credit(s)

Prerequisite(s):

Completion of the first term of the Nursing program is required.

Course Description: Develops students' abilities to recognize and treat the symptoms of illness and injury in classroom labs and simulated patient care scenes. Includes skills in patient assessment, basic airway management, overall assessment and patient management, medication administration, and the use of other equipment. Course is repeatable.

Course Learning Outcomes:

CLO#1: Demonstrate key principles of Nursing care.

CLO#2: Apply concepts learned in the classroom to the assessment and management of simulated patients in the lab setting. (ILO: Critical Thinking)

CLO#3: Demonstrate effective teamwork in managing simulated scenarios.

CLO#4: Variable, depending on content. (ILO: Variable, depending on content.)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard RCC delivery of (33) clinical/lab hours per term, not to exceed (36) hours per term.

NRS 221 - Chronic Nursing II

5 Credit(s)

Prerequisite(s):

NRS 110, NRS 111, NRS 112, NRS 230, NRS 231, NRS 232, NRS 233

Corequisite(s):

NRS 221C

Course Description: This course builds on Foundations of Nursing in Chronic Illness I. Chronic Illness II expands the student's knowledge related to family care giving, symptom management and end of life concepts. These concepts are a major focus and basis for nursing interventions with patients and families. Ethical issues related to advocacy, self-determination, and autonomy are explored. Complex skills associated with the assessment and management of concurrent illnesses and conditions are developed within the context of patient and family preferences and needs. Skills related to enhancing communication and collaboration as a member of an inter-professional team and across health care settings are further explored. Exemplars include patients with chronic mental illness and addictions as well as other chronic conditions and disabilities affecting functional status and family relationships. The course includes classroom and clinical learning experiences.

Course Learning Outcomes:

- CLO#1: Conduct a health assessment that is in-depth, evidence-based, family centered, and both developmentally and culturally appropriate. Interpret health data, focusing on:
- functional issues associated with complexities of co-morbid conditions in relation to ADLs and IADLs.
 - manifestations of psychiatric diagnoses and their impact on patient self-care.
 - psychosocial issues and the impact of the illness on individual development and family function.
 - the patient's personal, social and cultural interpretation of the meaning of the illness and the impact on the patient's family.
 - capacity for and engagement in self-care.
 - opportunities for health behavior change.
- CLO#2: Apply evidence-based nursing practices in support of patient and family in self health care management across the lifespan to:
- establish meaningful relationships with patients/families.
 - support patient and family in development of capacity for self-health care management.
 - address caregiver needs for preparedness and predictability with regards to the management of symptoms /manifestations for specific disorders.
 - assess family strengths and resources, caregiver role strain, and capacity to provide care.
- CLO#3: Incorporate measures to enhance quality of life in the plan of care by:
- facilitating patient in developing their personal definition of quality of life.
 - addressing patient needs for preparedness and predictability.
- CLO#4: Identify and use community resources to provide support for the patient and family caregiving by:
- supporting the patient in negotiating the healthcare settings.
 - assessing appropriateness of resources in meeting the patient/family needs, (e.g. accessibility, financial feasibility, acceptability)
 - developing inter-professional collaboration for the provision of care.
- CLO#5: Communicate with agencies involved in patient care to assure continuity of care across settings (e.g. schools, day care, adult foster care, etc.) by:

- negotiating with others to modify care; and
- advocating for patients. (ILO: Communication)

CLO#6: Utilize nursing and inter-professional based knowledge of death and dying trajectories to support patients/families across the lifespan who are experiencing transitions at the end of life by:

- describing the epidemiology of dying: where, when, how people die, dying trajectories across the lifespan.
- using developmentally and culturally appropriate communication with patients and families at end of life.
- using appropriate assessment techniques for individuals and families experiencing life threatening illness.

CLO#7: Analyze impact of health care delivery system issues, policy and financing on individual and family health care needs for chronic illness and end of life care by:

- comparing basic funding mechanisms.
- identifying decision-making issues for chronic care based on funding resources.
- assessing appropriateness of resources in meeting the patient/family needs, (e.g., accessibility, financial feasibility, acceptability).

CLO#8: Demonstrate honesty and integrity.

CLO#9: Demonstrate correct application/continued competence in previously learned principles/nursing care skills/therapeutic measures including dosage calculations.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (50) and a standard RCC delivery of (55) lecture hours per term, not to exceed (60) hours per term.

NRS 221C - Chronic Nursing II Clinical

4 Credit(s)

Prerequisite(s):

NRS 110, NRS 111, NRS 112, NRS 230, NRS 231, NRS 232, NRS 233

Corequisite(s):

NRS 221

Course Description: Clinical associated with NRS 221

Course Learning Outcomes:

- CLO#1: Conduct a health assessment that is in-depth, evidence-based, family centered, and both developmentally and culturally appropriate. Interpret health data, focusing on:
- functional issues associated with complexities of co-morbid conditions in relation to ADLs and IADLs.
 - manifestations of psychiatric diagnoses and their impact on patient self-care.
 - psychosocial issues and the impact of the illness on individual development and family function.
 - the patient's personal, social and cultural interpretation of the meaning of the illness and the impact on the patient's family.

- capacity for and engagement in self-care.
 - opportunities for health behavior change.
- CLO#2: Apply evidence-based nursing practices in support of patient and family in self health care management across the lifespan to:
- establish meaningful relationships with patients/families.
 - support patient and family in development of capacity for self-health care management.
 - address caregiver needs for preparedness and predictability with regards to the management of symptoms /manifestations for specific disorders.
 - assess family strengths and resources, caregiver role strain, and capacity to provide care.
- CLO#3: Incorporate measures to enhance quality of life in the plan of care by:
- facilitating patient in developing their personal definition of quality of life.
 - addressing patient needs for preparedness and predictability.
- CLO#4: Identify and use community resources to provide support for the patient and family caregiving by:
- supporting the patient in negotiating the healthcare settings.
 - assessing appropriateness of resources in meeting the patient/family needs, (e.g. accessibility, financial feasibility, acceptability)
 - developing inter-professional collaboration for the provision of care.
- CLO#5: Communicate with agencies involved in patient care to assure continuity of care across settings (e.g. schools, day care, adult foster care, etc.) by:
- negotiating with others to modify care; and
 - advocating for patients. (ILO: Communication)
- CLO#6: Utilize nursing and inter-professional based knowledge of death and dying trajectories to support patients/families across the lifespan who are experiencing transitions at the end of life by:
- describing the epidemiology of dying: where, when, how people die, dying trajectories across the lifespan.
 - using developmentally and culturally appropriate communication with patients and families at end of life.
 - using appropriate assessment techniques for individuals and families experiencing life threatening illness.
- CLO#7: Analyze impact of health care delivery system issues, policy and financing on individual and family health care needs for chronic illness and end of life care by:
- comparing basic funding mechanisms.
 - identifying decision-making issues for chronic care based on funding resources.
 - assessing appropriateness of resources in meeting the patient/family needs, (e.g., accessibility, financial feasibility, acceptability).
- CLO#8: Demonstrate honesty and integrity.
- CLO#9: Demonstrate correct application/continued competence in previously learned principles/nursing care skills/therapeutic measures including dosage calculations.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120) and a standard RCC delivery of (132) clinical/lab hours per term, not to exceed (144) hours per term.

NRS 222 - Acute Care Nursing II

5 Credit(s)**Prerequisite(s):**

NRS 221, NRS 221C

Corequisite(s):

NRS 222C

Course Description: Builds on Nursing in Acute Care I focusing on more complex and/or unstable patient care conditions, some of which may result in death. These patient care conditions require strong noticing and rapid decision-making skills. Evidence base is used to support appropriate focused assessments and effective, efficient nursing interventions. Life span and developmental factors, cultural variables, and legal aspects of care frame the ethical decision-making employed in patient choices for treatment or palliative care for disorders with an acute trajectory. Case scenarios incorporate prioritizing care needs, delegation and supervision, family and patient teaching for either discharge planning or end-of-life care. Exemplars include acute conditions affecting multiple body systems. Includes classroom and clinical learning experiences.

Course Learning Outcomes:

- CLO#1: Conduct evidence-based assessment, using age, developmental and culturally appropriate communication skills, specifically by:
- Monitoring a variety of data and accurately interpreting obvious deviations from expected patterns in increasingly complex acute conditions (e.g. co-morbidities, complications, high-risk pregnancies, acute psychosis, life threatening situations, diverse health beliefs);
 - Recognizing potential problems and rapidly changing physiologic and behavioral situations;
 - Recognizing pathophysiological changes and symptoms experienced by the patient which are associated with the dying process;
 - Regularly monitoring patients' level of comfort and ability to manage symptoms and symptom distress;
 - Assessing family's response to patient's illness and,
 - Recognizing impact of individual development, as well as family development and dynamics on physiologic and behavioral status.
- CLO#2: Develop and use evidence-based, individualized, developmentally appropriate interventions that are dynamic and based on changing needs of patient and family.
- CLO#3: Collaborate with health care team members to provide comfort and symptom management.
- CLO#4: Develop discharge plans in collaboration with patient, family and health care team members.
- CLO#5: Reflect on experiences in caring for patients with acute conditions.
- CLO#6: Demonstrate correct application/continued competence in previously learned principles/nursing care skills/therapeutic measures including dosage calculations and medication administration. (ILO: Quantitative Literacy and Reasoning)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (50) and a standard RCC delivery of (55) lecture hours per term, not to exceed (60) hours per term.

NRS 222C - Acute Care Nursing II Clinical

4 Credit(s)

Prerequisite(s):

NRS 221, NRS 221C

Corequisite(s):

NRS 222

Course Description: Clinical associated with NRS 222

Course Learning Outcomes:

- CLO#1: Conduct evidence-based assessment, using age, developmental and culturally appropriate communication skills, specifically by:
- Monitoring a variety of data and accurately interpreting obvious deviations from expected patterns in increasingly complex acute conditions (e.g. co-morbidities, complications, high-risk pregnancies, acute psychosis, life threatening situations, diverse health beliefs);
 - Recognizing potential problems and rapidly changing physiologic and behavioral situations;
 - Recognizing pathophysiological changes and symptoms experienced by the patient which are associated with the dying process;
 - Regularly monitoring patients' level of comfort and ability to manage symptoms and symptom distress;
 - Assessing family's response to patient's illness and,
 - Recognizing impact of individual development, as well as family development and dynamics on physiologic and behavioral status.
- CLO#2: Develop and use evidence-based, individualized, developmentally appropriate interventions that are dynamic and based on changing needs of patient and family.
- CLO#3: Collaborate with health care team members to provide comfort and symptom management.
- CLO#4: Develop discharge plans in collaboration with patient, family and health care team members.
- CLO#5: Reflect on experiences in caring for patients with acute conditions.
- CLO#6: Demonstrate correct application/continued competence in previously learned principles/nursing care skills/therapeutic measures including dosage calculations and medication administration. (ILO: Quantitative Literacy and Reasoning)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120) and a standard RCC delivery of (132) clinical/lab hours per term, not to exceed (144) hours per term.

NRS 224 - Integrative Practicum

2 Credit(s)**Prerequisite(s):**

NRS 222, NRS 222C

Corequisite(s):

NRS 224C

Course Description: This course is designed to formalize the clinical judgments, knowledge and skills necessary in safe, registered nurse practice. The faculty/preceptor/student triad model provides a context that allows the student to experience the nursing role in a selected setting, balancing the demands of professional nursing and intentional learner. Analysis and reflection throughout the clinical experience provide the student with evaluative criteria against which they can judge their own performance and develop a practice framework. Includes seminar, self-directed study and clinical experience.

Course Learning Outcomes:

- CLO#1: Make sound clinical judgments based on increasingly complex knowledge base, best practice evidence and experience in care of selected populations.
- CLO#2: Set priorities in the provision of care with attention to patient needs and preferences, available resources and ethical aspects of patient care.
- CLO#3: Practice self-reflection and self-analysis to identify areas for improvement.
- CLO#4: Advocate for and provide individualized care for patients and families.
- CLO#5: Evaluate and improve one's own leadership skills through collaboration with the health care team.
- CLO#6: Delegate or assign responsibilities appropriately taking into consideration the other's scope of practice or training.
- CLO#7: Integrate concepts of resource utilization, quality improvement and systems to enhance care delivery across the continuum of care. (ILO: Quantitative Literacy and Reasoning)
- CLO#8: Articulate a personal view of nursing practice that exemplifies quality and safety in care.
- CLO#9: Demonstrate competent performance when evaluated against national standards and criteria.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture hours per term, not to exceed (24) hours per term.

NRS 224C - Integrative Practicum Clinical**7 Credit(s)****Prerequisite(s):**

NRS 222, NRS 222C

Corequisite(s):

NRS 224

Course Description: Clinical associated with NRS 224

Course Learning Outcomes:

- CLO#1: Make sound clinical judgments based on increasingly complex knowledge base, best practice evidence and experience in care of selected populations.
- CLO#2: Set priorities in the provision of care with attention to patient needs and preferences, available resources and ethical aspects of patient care.
- CLO#3: Practice self-reflection and self-analysis to identify areas for improvement.
- CLO#4: Advocate for and provide individualized care for patients and families.
- CLO#5: Evaluate and improve own leadership skills through collaboration with the health care team.
- CLO#6: Delegate or assign responsibilities appropriately taking into consideration the other's scope of practice or training.
- CLO#7: Integrate concepts of resource utilization, quality improvement and systems to enhance care delivery across the continuum of care. (ILO: Quantitative Literacy and Reasoning)
- CLO#8: Articulate a personal view of nursing practice that exemplifies quality and safety in care.
- CLO#9: Demonstrate competent performance when evaluated against national standards and criteria.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (210) and a standard RCC delivery of (231) clinical/lab hours per term, not to exceed (252) hours per term.

NRS 230 - Clinical Pharmacology I

3 Credit(s)

Prerequisite(s):

BI 234 and NRS 110

Course Description: This course introduces the theoretical background that enables students to provide safe and effective care related to drugs and natural products to persons throughout the lifespan. It includes the foundational concepts of principles of pharmacology, psychotropic drugs, neurological drugs, principles of cancer chemotherapy, and drugs for endocrine, cardiovascular and respiratory diseases. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of information, understanding of pharmacokinetics and pharmacodynamics, developmental physiologic considerations, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. Drugs are studied by therapeutic or pharmacological class using an organized framework.

Course Learning Outcomes:

- CLO#1: Use current, reliable sources of information to access pertinent information about drugs and natural products, focusing on
- identification of appropriate reliable sources of information in specific nursing situations
 - rapid and accurate retrieval of pertinent information from a current drug guide, and
 - accurate retrieval of information from a comprehensive drug information source.
- CLO#2: Monitor and evaluate the effectiveness of drug therapy, focusing on
- selection and interpretation of basic focused nursing assessments to detect therapeutic effects,
 - side effects and adverse reactions, and drug-drug, drug-food, and drug-natural product interactions for specific classes of drugs
 - surveillance for vulnerability to negative effects of specific classes of drugs based on age, developmental physiology, concurrent pathophysiology, psychopathology or other factors.
- CLO#3: Teach patients, family members, and others from diverse populations across the lifespan regarding safe and effective use of drugs and natural products, focusing on:
- self-management of specific classes of over-the-counter and prescription drugs that are used episodically.
 - self-management of specific classes of drugs that are taken for chronic conditions.
 - how the action of specific classes of drugs relates to developmental, maturational, aging, neurochemical, and pathophysiological processes, or normal physiology.
 - which side/adverse effects of specific classes of drugs and natural products to self-manage and which ones to report to health professionals.
 - how to avoid or recognize drug-drug, drug-food, and drug-natural product interactions with specific classes of drugs. (ILO: Communication)
- CLO#4: Identify appropriate nursing interventions to increase therapeutic benefits and reduce potential negative effects of drug therapy, focusing on
- identification of basic non-pharmacological interventions that potentially enhance the effectiveness of specific classes of drugs
 - assessment of barriers to adherence to drug therapy with specific classes of drugs. (ILO: Critical thinking)
- CLO#5: Communicate appropriately with other health professionals regarding drug therapy, focusing on
- using appropriate technical language related to pharmacology.
 - explaining drug mechanisms of action and their relationship to normal physiology.
 - reporting pertinent information about an individual's response to specific classes of drugs or natural products. (ILO: Communication)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

NRS 231 - Clinical Pharmacology II

3 Credit(s)

Prerequisite(s):

NRS 230

Course Description: This sequel to NRS 230 continues to provide the theoretical background that enables students to provide safe and effective nursing care related to drugs and natural products to persons throughout the lifespan. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of information, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. The course addresses additional classes of drugs and related natural products not contained in Clinical Pharmacology I including immune related drugs, herbals, gastrointestinal drugs, antivirals, antidysrhythmics and others.

Course Learning Outcomes:

- CLO#1: Use current, reliable sources of information to access pertinent information about drugs and natural products, focusing on
- identification of appropriate reliable sources of information in specific nursing situations
 - rapid and accurate retrieval of pertinent information from a current drug guide, and
 - accurate retrieval of information from a comprehensive drug information source.
- CLO#2: Monitor and evaluate the effectiveness of drug therapy, focusing on
- selection and interpretation of basic focused nursing assessments to detect therapeutic effects
 - side effects and adverse reactions, and drug-drug, drug-food, and drug-natural product interactions for specific classes of drugs
 - surveillance for vulnerability to negative effects of specific classes of drugs based on age, developmental physiology, concurrent pathophysiology, psychopathology or other factors. (ILO: Critical Thinking)
- CLO#3: Teach patients, family members, and others from diverse populations across the lifespan regarding safe and effective use of drugs and natural products, focusing on:
- self-management of specific classes of over-the-counter and prescription drugs that are used episodically
 - self-management of specific classes of drugs that are taken for chronic conditions
 - how the action of specific classes of drugs relates to developmental, maturational, aging, neurochemical, and pathophysiological processes, or normal physiology,
 - which side/adverse effects of specific classes of drugs and natural products to self-manage and which ones to report to health professionals, and
 - how to avoid or recognize drug-drug, drug-food, and drug-natural product interactions with specific classes of drugs.
- CLO#4: Identify appropriate nursing interventions to increase therapeutic benefits and reduce potential negative effects of drug therapy, focusing on
- identification of basic non-pharmacological interventions that potentially enhance the effectiveness of specific classes of drugs
 - assessment of barriers to adherence to drug therapy with specific classes of drugs. (ILO: Critical Thinking)
- CLO#5: Communicate appropriately with other health professionals regarding drug therapy, focusing on
- using appropriate technical language related to pharmacology
 - explaining drug mechanisms of action and their relationship to normal physiology and
 - reporting pertinent information about an individual's response to specific classes of drugs or natural products.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

NRS 232 - Pathophysiological Processes I**3 Credit(s)****Prerequisite(s):**

Acceptance into the Nursing program.

Corequisite(s):

NRS 110 or advanced placement as an LPN.

Course Description: This course introduces pathophysiological processes that contribute to many different disease states across the lifespan and human responses to those processes. It includes the foundational concepts of cellular adaptation, injury, and death; inflammation and tissue healing; fluid and electrolyte imbalances; and physiologic response to stressors and pain, as well as additional pathophysiological processes. Students will learn to make selective clinical decisions in the context of nursing regarding using current, reliable sources of pathophysiology information, selecting and interpreting focused nursing assessments based on knowledge of pathophysiological processes, teaching persons from diverse populations regarding pathophysiological processes, and communicating with other health professionals regarding pathophysiological processes.

Course Learning Outcomes:

- CLO#1: Access current, reliable information about selected pathophysiological processes, including cellular adaptation, injury, and death; inflammation and tissue healing; fluid and electrolyte imbalances; and physiologic response to stressors. (ILO: Information Literacy)
- CLO#2: Select and interpret basic focused nursing assessments based on knowledge of clinical manifestations of and developmental considerations in selected pathophysiological processes in patients across the life span.
- CLO#3: Teach persons from diverse populations across the lifespan regarding selected pathophysiological processes, focusing on
- explaining how the risk factors relate to specific pathophysiological processes
 - describing selected pathophysiological processes in appropriate terms
 - explaining how the signs and symptoms relate to specific pathophysiological processes
 - explaining which signs and symptoms to report to a health professional
 - explaining how developmental factors relate to pathophysiology
- CLO#4: Communicate effectively with other health professionals regarding selected pathophysiological processes, focusing on
- using appropriate technical language
 - clarifying technical details of pathophysiological processes
 - reporting pertinent information about a patient's status

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

NRS 233 - Pathophysiological Processes II

3 Credit(s)

Prerequisite(s):

NRS 232

Course Description: This sequel to Pathophysiological Processes I continues to explore pathophysiological processes that contribute to disease states across the lifespan and human responses to those processes. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of pathophysiology information, selecting and interpreting focused nursing assessments based on knowledge of pathophysiological processes, teaching persons from diverse populations regarding pathophysiological processes, and communicating with other health professionals regarding pathophysiological processes. The course addresses additional pathophysiological processes not contained in Pathophysiological Processes I.

Course Learning Outcomes:

CLO#1: Access and interpret current, reliable information about selected pathophysiological processes.

CLO#2: Select and interpret basic focused nursing assessments based on knowledge of clinical manifestations, developmental considerations and potential complications of selected pathophysiological processes in patients across the life span. (ILO: Critical Thinking)

CLO#3: Teach persons from diverse populations regarding selected pathophysiological processes, focusing on explaining how risk factors relate to specific pathophysiological processes describing selected pathophysiological processes in appropriate terms explaining how the signs and symptoms relate to specific pathophysiological processes explaining which signs and symptoms to report to a health professional, and explaining how developmental factors relate to pathophysiology, symptom experience, symptom reporting, and symptom management.

CLO#4: Communicate effectively with other health professionals regarding selected pathophysiological processes, focusing on using appropriate technical language clarifying technical details of pathophysiological processes, and prioritizing and reporting pertinent information regarding a patient's status.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

Outdoor Adventure Leadership

OAL 150 - Outdoor Living Skills

2 Credit(s)

Prerequisite(s):

WR 115 or designated placement,

WR 115Q as required, and ability to walk with a backpack in the wilderness containing own, personal gear.

Course Description: Introduces students to the art of preparing to camp in front country or back country, presenting skills that are applicable to any environment and activity. Students will develop and apply skills in a range of environmental settings and will be prepared for future classes and experiences in the outdoors. The primary goal of this course is to learn the skills necessary to plan equipment and food for group trips as well as practice the skills of making informed choices in wilderness environments. The class requires two field experiences and an overnight, field-based component in order to demonstrate proficiency in planning for future, extended mountain backpacking, rock climbing, snow-survival camping, hiking, and water-based adventures.

Course Learning Outcomes:

- CLO#1: Develop all necessary aspects of a well-planned outdoor adventure, allocating time and materials for all equipment and food.
- CLO#2: Apply safety protocols and problem-solving skills to manage emergencies and changing outdoor environments.
- CLO#3: Demonstrate essential outdoor skills, including setting up tents, starting camp stoves, finding or creating shelter, bear-proof food, hiking with a group, camping with craft and low impact levels on the environment. (ILO: Communication)
- CLO#4: Exhibit proficiency in camp-craft; effective teamwork and leadership skills by engaging respectfully and responsibly as both a group member and leader through two field experiences and an overnight adventure.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

OAL 223 - Wilderness Navigation

2 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Uses a classroom setting to preview and cover the types of land forms that will be seen in the wilderness to prepare students for understanding real life navigation complexes. Introduces students to wilderness navigation including how to orient, navigate, and route-find in a wilderness setting using maps, compass, altimeter and GPS. Course requires students to demonstrate competency in a field setting. Successful completion is not possible without mandatory off-site locations components.

Course Learning Outcomes:

- CLO#1: Apply map reading and compass skills in a wilderness adventure setting.
- CLO#2: Interpret wilderness maps for the wealth of information and data they provide throughout the course. (ILO: Critical Thinking)

CLO#3: Use GPS and altimeter technologies while navigating in a wilderness adventure setting.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

OAL 224 - San Juan Island Kayaking and Hiking

3 Credit(s)

Prerequisite(s):

Physical abilities and strength to sustain 9 days of sea kayak and hiking. Students must be able to minimally perform the requisite physical activities defined by the course outline and participate on a regular, daily basis for the entire length of the class period to pass the class successfully. If additional accommodations are necessary, please meet with your instructor during the first week of class to discuss this possibility or to discuss a more appropriate class placement. Attendance at both pre-trip orientations is required for student to be able to attend and complete the class.

Course Description:

Teaches the necessary skills involved in sea kayak and hiking in the San Juan Islands of Washington State. Students will enjoy the natural beauty of the inland coastal islands through camping, kayaking and hiking the islands for nine days. The required skills include pre-trip planning, orienteering, traveling as a group, camp site selection, wilderness ethics, and safety. Students are expected to learn and share in all aspects of group kayak and hiking including sharing the responsibility of dividing and carrying group gear, setting up camp, cooking, and cleaning up. Challenges will be met as a group and involvement is critical to a safe and successful multi-faceted excursion. Additional fees will be required for services, campground, etc.

Course Learning Outcomes:

CLO#1: Develop travel logistics, file a plan, equipment checks, proper packing with regards to transportation type and environmental requirements.

CLO#2: Explain and demonstrate proper wilderness ethics while in the field.

CLO#3: Demonstrate teamwork and skills required for sea touring kayaks.

CLO#4: Safely demonstrate kayak touring and hiking skills and techniques.

CLO#5: Demonstrate proper use of safety equipment such as: PFDs, kayaks, spray skirts and reentry equipment. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (90) and a standard RCC delivery of (99) lab hours per term, not to exceed (108) hours per term.

OAL 250 - Outdoor Adventure and Leadership

3 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces the student to the history, philosophy, and styles in outdoor adventure leadership in contemporary society, with application to current trends and prospects for the future. The course will allow students to develop knowledge and a personal style of effective leadership and communication.

Course Learning Outcomes:

CLO#1: Explain the history and philosophy of outdoor adventure leadership within the context of the purpose and intent of experiential education.

CLO#2: Describe factors affecting the motivation behind adventure participants.

CLO#3: Analyze varying outdoor leadership skills and styles, and describe the appropriate leadership command approach for guides, instructors, and team members in a range of settings.

CLO#4: Provide examples of effective group conflict management and group facilitation with feedback and assessment methods. (ILO: Critical Thinking)

CLO#5: Evaluate expeditionary behavior, necessary critical decisions, and risk management within an adventure setting.

CLO#6: Actively participate as a team member and leader in a facilitated outdoor challenge.

CLO#7: Provide examples of employment opportunities, certificates, and local leaders in the field of OAL.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

Physical Education

PE 184 - Adaptive Physical Education

1 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: This course focuses on knowledge, comprehension, and application of human movement principles related to individuals with disabilities. Prepares students with a foundation of special needs applications through a combination of research and practical classroom experience within the professional arena of persons with disabilities. Because student participation is both a vital part of the learning process and an important way to enrich the course experience, student to student interaction is required. Students are encouraged to raise issues, provide information from their own experience, and ask questions.

Course Learning Outcomes:

- CLO#1: Define basic terminology related to a variety of disabilities. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#2: Explain the central principles and benefits of adaptive physical education for students.
- CLO#3: Identify various disabling conditions and their significance in the broader context of health and fitness.
- CLO#4: Design lesson plans that include adaptations and modifications to support the inclusion of children with disabilities in a physical education class, ensuring instruction occurs in the least restrictive environment. (ILO: Communication)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

PE 185AA - Aerobics - Multi-Level**1 Credit(s)**

Course Description: Consists of a high-energy, cardiovascular workout for men and women of all ages, sizes, and physical conditions using dance aerobics, step aerobics, kickboxing, and Latin craze as a foundation in the class. Geared to meet each student's ability, needs and goals while strengthening the entire body to a music workout. Activities include muscular strength and endurance, cardiovascular endurance, body composition, and flexibility while keeping one foot on the floor at all times during aerobic segments. Benefits of exercise, proper execution of exercises, the prevention and care of exercise-related injuries, and major muscle groups and body terms are included. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate proper exercise form in more than one dance/fitness style. (ILO: Critical Thinking)
- CLO#2: Demonstrate improvement in the targeted areas of body composition.
- CLO#3: Identify the major muscle groups and explain safe use, injury prevention and recovery.
- CLO#4: Create and demonstrate routine or specific exercise or present information on a fitness related topic.

Typical Required and Recommended Equipment and Materials: Workout clothes, quality exercise shoes, water container, towel and lock.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185AC - Aquatic Core Fitness

1 Credit(s)

Course Description: Fosters the development of cardiovascular health, increased strength, and flexibility through aquatic exercises at the community YMCA pool. The course is a low to medium intensity workout in the shallow portion of the pool that emphasizes core fitness, focusing on the abdominal muscles and other gross muscles of the body, particularly the "glute" muscles, hamstrings, quadriceps and back muscles. Students set individual goals for aquatic fitness and strive to attain these improvement goals over the course of the term. Course is repeatable.

Course Learning Outcomes:

CLO#1: Participate in aquatic exercise routines to improve fitness level.

CLO#2: Demonstrate improvement of muscles used in aquatics: abdominals, glutes, hamstrings, quadriceps and back muscles.

CLO#3: Demonstrate greater muscle coordination in an aquatic environment. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

PE 185AT - Aquatics for Personal Trainers

1 Credit(s)

Prerequisite(s):

PE 185WT

Course Description: Provides students with a solid foundation for working as personal trainers in the medium of water. The course provides a comprehensive approach to the fundamentals of physical fitness, weight loss, and functional movements that promote flexibility, movement, and a life of health and wellness in a pool setting. The course is designed to support students who would like to pursue a personal trainer certification. Course is repeatable.

Course Learning Outcomes:

CLO#1: Participate in the pool and demonstrate the skills of aquatic personal training.

CLO#2: Set specific, measurable, attainable, realistic, and timely goals for individuals. (ILO: Critical Thinking)

CLO#3: Conduct an initial assessment of current physical status, and develop programs for health and fitness goals distinguishing between the two.

CLO#4: Develop a rapport that allows clients to trust and follow the help and directions of the personal trainer. Steps to follow or something specific that is done to build a rapport? Clients trust is different with each person.

Typical Required and Recommended Equipment and Materials: Comfortable activity clothes.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185BC - Bootcamp

1 Credit(s)

Course Description: Students will have the opportunity to develop/increase cardio, endurance, strength, flexibility, mobility, and stability through various group exercise activities. Each class begins with a dynamic warm up for all major muscle groups. Workouts will include activities such as TRX, circuits, dumbbells, step, cardio, barbell training, stability balls, battle ropes, kettle bells, jump ropes, and various forms of high-intensity interval training (HIIT). Each class will end with a cool down comprised of static stretching which will include yoga and Pilates, and focus on breathing, alignment, myofascial release and relaxation. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Apply principles of proper form and alignment while working out.
- CLO#2: Demonstrate improvement in one or more of the following categories of body composition: (a) greater flexibility, (b) increased cardio-respiratory endurance (c) improved lung capacity (d) increased muscle strength and endurance (e) reduced fat percentage and/or measurements.
- CLO#3: Utilize proper stretching, warm-up, and cool-down techniques to prevent injury and promote recovery.
- CLO#4: Present a short routine or specific exercise for working a muscle or muscle group.
(ILO: Communication)

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185BP - Backpacking Adventure

1 Credit(s)

Prerequisite(s):

Ability to walk in the wilderness with a backpack containing personal gear for a minimum of 5-8 miles per day.

Course Description: Teaches the skills to travel and camp with quality and style, while exploring and respecting the wilderness. The skills necessary to plan equipment and food for group trips as well as the skills to make informed choices in a wilderness environment will be covered. There will be a required planning/backpacking principles orientation in order to prepare for a mountain backpacking trip to an Oregon wilderness area. Students will be expected to share the cost of food and gas and will be responsible for their own backpacking gear including rental if necessary. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Participate in wilderness hiking, operate as team member and practice effective communication skills. (ILO: Communication)

- CLO#2: Develop skills to carefully plan, allocating materials for equipment and food.
- CLO#3: Demonstrate ability to set up camp, navigate with map and compass, and hike with a group.
- CLO#4: Display integrity in leadership through individual and team challenges.

Typical Required and Recommended Equipment and Materials: Backpack, tent, sleeping bag, boots, cooking utensils and appropriate clothing. Some equipment such as stoves, fuel, and pots may be shared. The group will need to work together to ensure that all necessary equipment is secured and packed.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185BW - Bowling

1 Credit(s)

Prerequisite(s):

Sufficient physical ability to move on the lanes, lift a bowling ball, and throw it down the lane.

Course Description: Teaches basic bowling skills as well as provides a foundation to more advanced skills and techniques for those who are ready and able. Through use of instructional videos, personalized coaching on and off the lanes, and feedback from fellow classmates and the Instructor, students will achieve personal fitness goals while having fun and interacting with others. Upon completion of this course students will show an improvement in bowling techniques, develop an understanding of rules, verbiage and etiquette of the sport, and be able to watch and participate in the sport with greater ability and knowledge. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Participate as member of bowling team and demonstrate skills and exercises designed to support the sport. (ILO: Critical Thinking)
- CLO#2: Demonstrate proper form, technique and positioning in fundamental skills resulting in improved accuracy in bowling skills.
- CLO#3: List basic game rules, scoring and terms of bowling.
- CLO#4: Successfully apply all elements in the class while attempting to perfect competencies according to individual highest ability level possible.

Typical Required and Recommended Equipment and Materials: Appropriate attire for ease of movement. Bowling shoes required.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185CF - Circuit Fitness Training

1 Credit(s)

Course Description: Provides students the opportunity to develop individual cardiovascular fitness, flexibility, and muscular strength and endurance through a range of group exercise activities. Each class will begin with a warm-up including toning and dynamic stretching of all major muscle groups followed by 40 to 55 minutes of circuit activities: weight machines, free weights, steps, medicine ball, slides, jogging/walking, resistance bands, stability ball and jump ropes are among the activities and equipment included. These circuit activities will rotate on a regular schedule. Every class will end with a cool-down period focusing on static stretching and relaxation. Short lecture sections will cover the benefits of exercise, proper breathing and execution of exercises, prevention and care of exercise-related injuries, diet, physiology, major muscles groups and body terms, and information on related health issues. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Participate and apply safe and easy exercises for the heart and entire body. (ILO: Critical Thinking)
- CLO#2: Demonstrate improvement in body composition.
- CLO#3: List and describe function major muscle groups.
- CLO#4: Create and present a routine or specific exercise for toning an individual muscle group or information on a fitness-related topic.

Typical Required and Recommended Equipment and Materials: Workout clothes, court shoes and water

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185CI - Cycling - Indoor

1 Credit(s)

Prerequisite(s):

Ability to pedal a stationary bicycle.

Course Description: Improves fitness, health, and overall wellness through structured group cycling. The course is designed to improve cardiovascular endurance while enhancing cycling skills and mechanics. Instructor-led workouts are performed on stationary cycles using a variety of cycling-specific body positions and drills to the sounds of music. Focuses on maintaining or improving fitness through participation in a regular schedule of bicycle riding. Options for intensity are provided. Promotes improved cardiorespiratory conditioning, muscle strength and endurance, flexibility, and body composition. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate safe and effective indoor cycling (ILO: Critical Thinking)
- CLO#2: Demonstrate improvement in the targeted areas of body composition.
- CLO#3: Develop a fitness, health, and wellness program plan.

Typical Required and Recommended Equipment and Materials: Workout clothes, quality exercise shoes, water container.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185CO - Core and Cardio

1 Credit(s)

Course Description: Offers a variety of methods to achieve a stronger core and greater cardiac performance: weighted workout, kick boxing, circuit training, dance aerobics, step aerobics, and interval training are used to strengthen and increase metabolism, heart circulation, and lung capacity. Stretching, Pilates mat work, use of balls, weights and exercise bands to tone, strengthen, and develop the core, will also be employed. Short lectures will cover the benefits of exercise, proper breathing and execution of exercises, the prevention and care of exercise-related injuries, diet, physiology, major muscles groups and body terms, and information on related health issues. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Apply fundamentals in proper exercise in different fitness styles.
- CLO#2: Demonstrate improvement in the targeted areas of body composition.
- CLO#3: Identify the major muscle groups, and explain proper use, injury prevention and recovery.
- CLO#4: Create and demonstrate a routine or specific exercise or present on a fitness related topic. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Workout clothes, quality exercise shoes, water container, towel and lock.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185CT - Circuit Training

1 Credit(s)

Course Description: This course is designed for students who have little to no experience with group circuit training and those who wish to adopt a more focused approach to their fitness regimen. It will introduce participants to the fundamentals of circuit training, emphasizing its benefits for enhancing overall fitness. The course will emphasize the benefits of safe, effective, and progressive strength training. Topics covered will include enhanced strength, muscle tone, increased metabolism, improved energy levels, and the reduction of depression symptoms. Each week, a new mode of fitness will be introduced or incorporated into an expanding circuit of exercises, which will rotate regularly. Every class will conclude with a cool-down session, stretching, and relaxation. Short lectures will cover the benefits of exercise, proper breathing and exercise execution, injury prevention and care, diet, physiology, major muscle groups, body terminology, and related health issues. Course is repeatable. Formerly offered as PE185WW.

Course Learning Outcomes:

- CLO#1: Demonstrate safe and easy exercises for the heart and entire body.
- CLO#2: Demonstrate improvement in body composition. (ILO: Critical Thinking)
- CLO#3: Identify major muscle groups, and explain proper and safe use.
- CLO#4: Develop and present routine or specific exercise for toning an individual muscle group, or present fitness-related topic.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185DB - Dance - Ballroom and Social**1 Credit(s)**

Course Description: Introduces ballroom dancing including basic steps in some of the most popular European, Latin, and American ballroom dance rhythms. The emphasis is on learning the techniques of the basic moves in the different dance rhythms. Students are expected to execute moves based on the general dance patterned steps and are also expected to lead and follow extemporaneous sequences. Approximately 75 percent of the dance time the Instructor cues the steps that students should be performing, and the class executes these moves together. 25 percent of the class time focuses on how to lead and how to follow for the various moves that have been taught. The goal is to have students leave with a fundamental working knowledge of the most popular and familiar ball room dances: Foxtrot, Rumba/Cha-Cha, Waltz, Tango, and Swing (Jitterbug/Jive). Course is repeatable.

Course Learning Outcomes:

- CLO#1: Participate in the class practicing the mastery of the basic steps of ballroom dances every day.
- CLO#2: Demonstrate, monitor, modify and correct the dance move as familiarity is acquired with the terminology used in describing dance steps. (ILO: Critical Thinking)
- CLO#3: Develop a sense of musicality, mood and rhythm to establish a working connection with a partner and perform at least four elements in dance.
- CLO#4: Demonstrate a step that has been taught in the class twice during the term.

Typical Required and Recommended Equipment and Materials: Dance shoes that will not scuff the gym floor must be owned or purchased and worn each class. See or call instructor for guidelines.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185DS - Dance - Salsa and Latin

1 Credit(s)

Prerequisite(s):

Ability to stand and move in close contact with another person.

Course Description: Salsa and Latin dance is an introductory social dance course that covers basic steps, patterns, and technique for several popular Latin rhythms. An emphasis on lead and follow technique will allow students to execute improvised dance to music. By the end of the term, students will have a fundamental working knowledge of the dances presented in class, with some ability both to lead and follow as demonstrated in a final exam. The dances covered include: Salsa, Cumbia, Bachata, and Merengue. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Participate in the class, and develop the mastery of the basic steps of dances covered.
- CLO#2: Practice how to monitor, modify, and correct the dance moves and develop appropriate terminology. (ILO: Critical Thinking)
- CLO#3: Develop musicality, mood and rhythm using improvisational dance skills to perform at least four elements in each dance.
- CLO#4: Demonstrate a step that has been taught in the class twice during the term.

Typical Required and Recommended Equipment and Materials: Dance shoes that will not scuff the gym floor must be owned or purchased and worn each class. See or call instructor for guidelines.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30)and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185DW - Self Defense for Women

1 Credit(s)

Course Description: Offers instruction in the basic self-defense awareness and practical physical techniques geared to specifically serve the needs and concerns of the female community. The physical core of the training is the Daimon-Ryu Kenpo Karate system, a traditional form of karate which has an emphasis on self-development and awareness as a primary goal, with the acquisition of self-defense skills as a practical by product. The course will cover situational awareness, critical distance, movement and postures, physical weapons awakening, self-defense applications, stress inoculation and assault scenario practice. Men and women alike are welcome in this practical, demonstration-based course.

Topics of the course will cover proper conditioning exercise, body control, proper terminology, historical foundations, postures, fundamental techniques, self-defense applications, basic combinations of the material. Students are provided with demonstrations of the basic moves and are allowed to practice the moves with feedback. The course consists of lectures, class exercises and practice in the basics of punches, blocks, strikes, and joint manipulations. Regular attendance is necessary and supplemental handouts are provided periodically in class. Upon completion, students should be able to successfully perform a series of defensive moves. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate concepts of self-defense.
- CLO#2: Display basic defensive strategies.
- CLO#3: Demonstrate improvement in self-management and corrected performance showing fundamental combination of forms
- CLO#4: Demonstration of applied skills in attack and defense scenario. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Gym shoes, sweat pants, and notebook. Participants with prior injuries should be cleared by their local physicians.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185FS - Flexibility and Manual Stretching**1 Credit(s)**

Course Description: A combination of self-massage, manual stretching, and breathing techniques utilizing foam rollers, tennis/therapy balls, and stretching straps. This class covers basic kinesiology and common areas of muscle tensions, and how to manually stretch these in order to prevent muscle injuries in athletes and anyone who moves regularly. The class starts with safety of stretching/foam rolling and flexibility measurement, leading into foam rolling the larger muscle groups of the upper body. Then a breakdown of targeting larger muscle groups in the lower body with the foam roller for manual stretching and stretch Straps for learning deeper and more effective stretching techniques. The final part of the course will focus on manual stretch techniques of smaller muscle groups utilizing tennis/therapy balls and common areas of tension that can be released to help prevent athletic injuries. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Apply principles of flexibility while stretching to promote toning and prevent injury.
- CLO#2: Demonstrate improvement in flexibility, tone, and range of motion for targeted body areas. (ILO: Critical Thinking)
- CLO#3: Demonstrate how to properly stretch common areas of tension and large muscle groups of the body.
- CLO#4: Present information to the class on the muscles in one area of the body, including techniques to stretch that area.

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185FT - Functional Fitness and TRX**1 Credit(s)**

Course Description: Provides students the opportunity to participate in effective and efficient workouts using TRX bands and various other individual and group exercise activities/equipment

to teach functional fitness. Classes will focus on all major muscle groups with an emphasis on core engagement. Each class will begin with a dynamic warm up for the entire body, followed by 40-55 minutes of exercises that promote strength in functional movement. This can include TRX bands, weights, steps, medicine balls, resistance bands/loops, stability balls etc. Each class will end with a gentle cool down focusing on static stretching. Classes will also include discussions about health and wellness, proper form and muscle engagement, major muscle groups, proper breathing, and injury prevention. Course is repeatable.

Course Learning Outcomes:

CLO#1: Participate in exercises using a variety of fitness styles.

CLO#2: Demonstrate progress in one of the following categories: (a) greater flexibility, (b) increased cardio-respiratory endurance, (c) improved lung capacity, (d) reduced fat percentage and/or measurements, and (e) increased muscle strength and endurance.

CLO#3: Utilize proper stretching, warm-up, and cool-down techniques to prevent injury and promote recovery. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185HA - Hiking Oregon Adventure

1 Credit(s)

Prerequisite(s):

Physical abilities and strength to sustain 3 days of hiking in the recreation areas of Oregon. Students must be able to minimally perform the requisite physical activities and participate on a regular, daily basis for the entire length of the class period to pass the class successfully.

Course Description: Teaches necessary skills involved in hiking. These skills include pre-trip planning, orienteering, traveling as a group, wilderness ethics, and safety. Course topics will also include plant, animal, and animal track identification. We will focus on learning about and exploring the diverse flora and fauna while enjoying the beauty that the Oregon National recreation area has to offer in wilderness areas and coastal environments. We will be camping in state or local campgrounds and hiking each day from that base camp. You are expected to learn and share in all aspects of hiking together including plant and animal identification, map and compass lessons and Geocaching GPS activities. We will cover basic preventative first aid, particularly hydration and foot care. We will approach challenges as a group and involvement is critical to a safe and successful backcountry excursion. Course is repeatable.

Course Learning Outcomes:

CLO#1: Plan and gather proper equipment and perform basic outdoor skills associated with hiking and camping.

CLO#2: Develop personal wilderness ethic that will influence interaction with a unique geological and biological diversity found in the area. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

CLO#3: Collaborate as a team to achieve a common goal. Discuss importance of teamwork in aspect to safety, navigation and plant and animal track identification.

CLO#4: Complete required hikes and camping.

Typical Required and Recommended Equipment and Materials: Food, camping equipment, transportation to and from the coast, necessary gear and appropriate clothing. Students are must have or borrow the necessary camping and hiking gear, such as day backpack, tent, sleeping bag, sleeping pad, boots, and clothing.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185HF - High Fitness

1 Credit(s)

Course Description: High energy cardio workout for men and women. Uses choreographed aerobics with upbeat music to create a fun, heart pounding, engaging, and effective workout. Combining cardio and toning exercises (aerobic and anaerobic training). Alternating between high-intensity interval training (HIIT) and moderate/active recovery tracks. No equipment, full body workout to increase endurance, stamina, strength, and cardiovascular health. Range of modifications shown throughout entire course, making this workout adaptable for all fitness levels and body types. Will have ongoing discussions about cardio health, muscular strength and endurance, basic anatomy and injury prevention. We will also be discussing ways to measure health, including but not limited to body mass index (BMI), weight, progress pictures, body measurements, non-scale victories, and any improvements they noticed with mental health. Each class will consist of a 10 -15 min warm up, workout period, and a 20 min cool down/stretch. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Apply principles of proper form and alignment while working out.
- CLO#2: Demonstrate improvement in body composition in one of the following categories: (a) greater flexibility, (b) increased cardio-respiratory endurance (c) improved lung capacity (d) increased muscle strength and endurance (e) reduced fat percentage and/or measurements.
- CLO#3: Utilize proper stretching, warm-up, and cool-down techniques to prevent injury and promote recovery. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185KC - Kayaking the Sea Coast Adventure

1 Credit(s)

Prerequisite(s):

Breathe independently (i.e., not require medical devices to sustain breathing); independently maintain sealed airway passages while underwater; independently hold head upright without neck/head support; manage personal care independently; manage personal mobility

independently; follow instructions and effectively communicate independently; independently turn from face-down to face-up and remain floating face up while wearing a properly fitted life jacket; get in/out of a paddlecraft independently as well as get out from under a capsized paddlecraft.

Course Description: Offers beginners and seasoned kayakers a unique educational, outdoor adventure. Students will learn to maneuver sea kayaks in different environments in the ocean based on the ACA's Essentials of Kayaking curriculum, Levels 1-3. The course is designed to heighten a student's enjoyment of paddling in the ocean and to appreciate the beauty, both as a spectator and as a participant, of the kayaking adventure. Students will learn the fundamental kayaking skills that provide lifelong recreational learning and fitness enjoyment. Includes the basic elements of ocean navigation, safety considerations, and paddling and stability techniques. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate personal preparation for kayaking trip.
- CLO#2: Exhibit correct techniques for using spray skirt.
- CLO#3: Develop skills to enter exit kayak.
- CLO#4: Demonstrate effective use and control of the paddle.
- CLO#5: Identify marine hazards and hydrology of the ocean environment and address other safety issues.
- CLO#6: Maneuver in calm water satisfactorily.
- CLO#7: Demonstrate kayak safety and rescue procedures. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Clothing for trip will be discussed at the first meeting. An additional course fee is required for rafts, equipment, and transportation. Students will provide own transportation and meals during trips.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185KK - Karate - Kenpo Self Defense

1 Credit(s)

Course Description: Covers the fundamentals of the traditional form of karate, Daimon-Ryu Kenpo karate. Emphasis is on self-development and awareness, with the acquisition of self-defense skills as a practical by-product. The course covers postures, fundamental techniques, self-defense applications, and basic combinations of the material. Upon successful completion of the Yellow Belt exam, an official rank certificate will be recorded and issued to the candidate. The course consists of lectures, class exercises and practice. The curriculum includes the Daimon-Ryu Kenpo Karate basics composed of punches, blocks, strikes, and joint manipulations leading to self-applications. Each class will begin with a warm up period and concludes with cool down time. Classes may include, but are not limited to, the formal belt requirement material. Regular attendance is necessary and supplemental handouts are provided periodically in class. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Participate and demonstrate concepts in Kenpo Karate.
- CLO#2: Demonstrate improvement in fundamental combinations of forms and specialized techniques. (ILO: Critical Thinking)

CLO#3: Demonstrate beginning to advanced basic defense level techniques.

CLO#4: Apply skills to move toward acquiring the next level of belt advancement.

Typical Required and Recommended Equipment and Materials: Gym shoes, sweat pants, sweat or t-shirts. Advanced students are required to wear karate uniforms. Typewritten notebook. Participants with prior injuries should be cleared by their local physicians.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185KT - Karate - Traditional

1 Credit(s)

Prerequisite(s):

Students must be able to minimally perform the requisite physical activities defined by the course.

Course Description: Teaches the fundamentals of Okinawan/Japanese karate (Ukinju-Ryu Karate-Do) that has an emphasis on balance, coordination, physical fitness, and personal wellbeing as a primary goal, with the acquisition of self-defense skills and a sport competition component as practical byproducts. Covers postures, fundamental techniques, interactive drills, and self-defense applications. In addition, international sport competition rules and regulations and the basic combative skills will be introduced that can lead to organized sport competition comparative, in style, to that of the Traditional Karate-Do featured in the 2021 Tokyo Olympic Games. Course is repeatable.

Course Learning Outcomes:

CLO#1: Participate and demonstrate concepts in Karate-Do.

CLO#2: Demonstrate basic defensive karate strategies and techniques.

CLO#3: Demonstrate improvement in applied, fundamental combinations of forms and measurable levels of skill toward acquiring the next level of belt advancement.

CLO#4: Explain karate concepts in a written format. (ILO: Communication)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185KW - Kayaking Whitewater

1 Credit(s)

Prerequisite(s):

Ability to breathe independently (i.e., not require medical devices to sustain breathing); independently maintain sealed airway passages while underwater; independently hold head upright without neck/head support; manage personal care independently; manage personal

mobility independently; follow instructions and effectively communicate independently; independently turn from face-down to face-up and remain floating face up while wearing a properly fitted life jacket.

Course Description: Offers beginners and seasoned river runners a unique educational, outdoor adventure. Students will learn to kayak various parts of the Rogue River based on the ACA's Essentials of Kayaking curriculum levels 1-3. The course is designed to heighten a student's enjoyment of the river and its beauty, both as a spectator of the river and as a participant in the kayaking adventure in still waters up to Class I-II rapids. Students will learn the fundamental kayaking skills that provide lifelong recreational learning and fitness enjoyment. Includes the basic elements of river reading, safety considerations, and paddling techniques, and learning the skills required to efficiently maneuver a kayak on rivers with Class I-II rapids. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate personal preparation for kayaking trip: appropriate clothing, sufficient swimming ability, and proper adjustments for individual kayak control and planning course.
- CLO#2: Exhibit correct techniques for using spray skirt.
- CLO#3: Students will perfect entering and exiting kayak.
- CLO#4: Demonstrate effective use and control of the paddle.
- CLO#5: Maneuver in calm water satisfactorily.
- CLO#6: "Run the river" with confidence. (ILO: Critical Thinking)
- CLO#7: Identify hazards and hydrology of the river environment.
- CLO#8: Recognize boating safety and rescue procedures. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Clothing for river trip will be discussed at the first meeting. An additional course fee is required for rafts, equipment, and transportation.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185LS - Lap Swimming

1 Credit(s)

Prerequisite(s):

Sufficient physical ability to swim and/or move in a pool environment.

Course Description: Fosters the development of cardiovascular health and increased strength and flexibility through aquatic and strength exercises at the community YMCA pool and fitness center. The course emphasizes overall fitness and encourages students to swim and train at their own paces. Students set individual goals for swimming and strength training, and strive to reach those goals over the course of the term. Students meet with the instructor before the class begins to discuss class procedures and goals. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Participate in swimming and use safe exercise guidelines.

CLO#2: Demonstrate improvement in the targeted areas of body composition. (ILO: Communication)

CLO#3: Improve efficiency of swim strokes and distance of swimming. Safely modify and personalize a swim program to fit individual abilities and fitness levels, which encourages lifelong exercise and increases overall wellness.

CLO#4: Create and follow safe exercise routines for the entire body designed to improve the fitness level, stretch isolated muscles and gain greater muscle coordination.

Typical Required and Recommended Equipment and Materials: Swimsuit and towel are required; please bring your own. A lock is recommended. Goggles and swim caps are recommended, though not required. Kick boards and leg floats available at YMCA.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185MA - Mountaineering Adventure

1 Credit(s)

Prerequisite(s):

Physical abilities and strength to climb mountains.

Course Description: Covers the basic skills needed to explore and respect the wilderness while perfecting the ability to climb mountains safely. The skills necessary to plan equipment and make informed choices in a wilderness environment will be covered and include: equipment, knots, safety, training, stretching, skills and techniques, route finding, belaying, snow and ice anchors, rappelling, rope handling, self-arrest, crevasse rescue, and team work. The course will include 2 off-campus backcountry trips to learn & practice skills in preparation for a mountaineering trip. All three day trips are required for successful completion of the course. Students will be expected to share the cost of food and gas, and will be responsible for their own winter boots and clothing. Mountaineering equipment including: helmets, harnesses, ice axes, crampons, ropes, belay devices, prussiks, snow and ice anchors, and avalanche equipment will be provided. Course is repeatable.

Course Learning Outcomes:

CLO#1: Develop mountain climbing skills and physical tasks to master proficient climbing and safety practices with clear communication.

CLO#2: Apply knowledge to master equipment checks, knots, stretching, skills & techniques, belaying, snow & ice anchors, rappelling, rope handling, self-arrest, crevasse rescue and teamwork.

CLO#3: Describe and demonstrate proper care, inspection and maintenance of mountaineering equipment. (ILO: Communication)

CLO#4: Demonstrate leadership in the teamwork challenges, navigation, and maintaining unity with varying levels of classmates' abilities.

CLO#5: Show evidence of mastery of basic mountaineering skills and climbing ethics in a backcountry or wilderness setting.

Typical Required and Recommended Equipment and Materials: Required: Waterproof insulated boots, water/windproof jacket and pants, insulating layers, hats and gloves and eye

wear. Provided: helmets, harnesses, ropes, prusiks belay devices, ice axes, crampons, snow & ice anchors, snowshoes, avalanche equipment.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185MB - Mountain Biking

1 Credit(s)

Prerequisite(s):

Physical abilities and strength to mountain bike.

Course Description: Mountain Biking is an "all-comers" course that allows for a range of abilities, from novice to advanced. Students will attend one orientation and will then meet at designated trail heads in the Rogue Valley each week and participate in the mountain biking courses. Mountain Biking course topics include: comfort and competitive rides, fitness, safety, hydration, nutrition, basic bicycle maintenance, and opportunities to get involved in the sport through community rides, racing, and volunteering. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate improvement in increased cardio-respiratory endurance, increased muscle strength and endurance, and improvement of mountain biking skills by completing progressively more difficult rides and challenges.
- CLO#2: Participate in all aspects of the course everyday including warmups, rides, maintenance and safety procedures to develop a lifelong love of fitness through biking.
- CLO#3: Demonstrate basic bicycle maintenance and safety procedures that contribute to the group goal of successful rides with the team's bicycles. (ILO: Critical Thinking)
- CLO#4: Students will demonstrate integrity, and self-management in caring for personal gear and others' experiences by being respectful and sociable with other trail users they may encounter.

Typical Required and Recommended Equipment and Materials: Required: mountain bike, helmet, water bottle(s) or hydration pack, proper footwear, eye protection, replacement tubes, nutrition, and hydration. Optional: bike tools, pumps, clip pedals, clip shoes, cycling gloves, padded bike shorts, heart rate monitor.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185PB - Pickleball

1 Credit(s)

Prerequisite(s):

Students need to be able to run, move and swing a paddle to fully participate in all activities.

Course Description: Provides instruction in all areas of indoor pickleball: essential components of skill sets, game tactics, offensive and defensive strategies, and fundamentals of team play. Students will learn the fundamental rules and skills that will provide them lifelong recreational learning and fitness enjoyment. Course is repeatable.

Course Learning Outcomes:

CLO#1: Participate as a pickleball team member and follow skills and exercises designed to support the sport. (ILO: Critical Thinking)

CLO#2: Demonstrate individual improvement in proper form and accuracy in pickleball skills.

CLO#3: Demonstrate fundamental mastery of playing pickleball in a game setting with defensive and offensive strategies.

CLO#4: Display the basic game rules and terms. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Appropriate athletic attire. Balls and paddles are provided.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185PI - Pickleball Instructional - Inter

1 Credit(s)

Course Description: Provides instruction in all areas of indoor pickleball: essential components of skill sets, game tactics, offensive and defensive strategies, and fundamentals of team play. Students will learn the intermediate level skills that will provide them lifelong recreational learning and fitness enjoyment. Course is repeatable.

Course Learning Outcomes:

CLO#1: Participate as a pickleball team member and follow skills and exercises designed to support the sport.

CLO#2: Demonstrate individual improvement in proper form and accuracy in pickleball skills as evidenced by pre-and post-assessment measurements. (ILO: Critical Thinking)

CLO#3: Apply advanced offensive and defensive pickleball strategies.

CLO#4: Demonstrate how to use game rules and terms, especially in situations of disagreement.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185PL - Pilates

1 Credit(s)

Course Description: Designed to enhance flexibility, core strength, coordination, improved breathing and lung capacity, muscle control and balance through a system of controlled movements, Pilates is an "all comers" exercise course. Pilates is an effective method for reducing stress, increasing abdominal tone, improving posture and flexibility by combining smoothly controlled movements with concentration and breathing. Students of all ability levels are welcome. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate Pilates exercise method and how to execute the basic Pilates forms properly by participating daily as a class member and following safe and easy exercise routines for flexibility and entire body.
- CLO#2: Show improved flexibility, balance, muscle control, coordination, core strength, breathing and lung capacity, self-management and relaxation.
- CLO#3: List the names of the various muscle groups and explain how to monitor, modify and correct the exercises in order to meet the needs of one's individual body type and muscle structure. (ILO: Communication)
- CLO#4: Demonstrate physical proficiency with the basic routines in the class and remain in-sync with others in an in-sync fashion with the other members of the course.

Typical Required and Recommended Equipment and Materials: Wear loose, comfortable clothing, socks. Shoes are optional.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185RA - Rock Climbing Adventure

1 Credit(s)

Prerequisite(s):

Physical abilities and strength to climb rock surfaces.

Recommended Prerequisite(s):

PE 185RB

Course Description: Provides extended learning opportunities for students to challenge themselves while focusing on safety and teamwork. Focus is on both top rope and sport climbing on a wide variety of rock types and route difficulty levels. Introduction to traditional clean lead climbing methods will also be covered. Students will have extended opportunities to practice anchor evaluation, safety equipment usage, topographical reading, route finding, climbing skills, and teamwork. This will be a three-day, two-night climbing expedition. Class requires an orientation session where skills will be demonstrated, practiced and audited. Class focus would be on continued skill development in the outdoor rock-climbing environment. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Participate in rock climbing skills and physical tasks to master proficient climbing and safety practices and clear communication with one's partner as the Instructor demonstrates (ILO: Communication)
- CLO#2: Review, build upon, and demonstrate proficiency in using the family of knots and apply them appropriately.
- CLO#3: Apply the dynamics of anchor systems and demonstrate how to build them.
- CLO#4: Demonstrate proficiency in leading and belaying sport climbs using established safe techniques of clipping, proper rope management, appropriate communication, and best practices with a partner.
- CLO#5: Demonstrate leadership and climbing ethics for indoor and outdoor venues.
- CLO#6: Plan for equipment and use it wisely: students will demonstrate personal qualities of proper care and maintenance for personal climbing gear.
- CLO#7: Display evidence of master rock climbing skills and climbing ethics for indoor and outdoor venues.

Typical Required and Recommended Equipment and Materials: Required: Food, camping equipment, and transportation. Provided: Shoes, harnesses, helmets, ropes, and other climbing equipment.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185RB - Rock Climbing Beginning

1 Credit(s)

Prerequisite(s):

Physical abilities and strength to climb rock surfaces.

Course Description: Covers the basic skills needed to explore and respect the wilderness while perfecting the ability to climb rock faces safely. The skills necessary to plan equipment and make informed choices in a wilderness environment will be covered and include: equipment, knots, safety, training, stretching, skills and techniques, belaying, top rope anchors, rappelling and teamwork. The course will include several venues and a field trip for successful completion of the course. Students will be expected to share the cost of food and gas, and will be responsible for their own rock-climbing gear including rentals if necessary. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Participate in rock climbing and develop proficient climbing skills and safety practices.
- CLO#2: Perform correct equipment checks, knots, stretching, skills & techniques, belaying, top rope anchors, rappelling and teamwork.
- CLO#3: Explain proper care and maintenance of climbing gear.
- CLO#4: Demonstrate leadership while directing group through challenges.
- CLO#5: Display mastery of basic rock-climbing skills and practices. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Students will need to have/borrow the necessary climbing gear and clothing, such as harnesses, shoes, ropes and

appropriate clothing.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185RD - Road Cycling

1 Credit(s)

Prerequisite(s):

Physical abilities and strength to road cycle.

Course Description: Road Cycling offers credit for cycling throughout the week and is designed so that beginner to expert can participate to improve his/her skills and enjoyment. Topics covered: riding techniques, comfort, fitness, safety, and basic bicycle maintenance. Rides can be in various locations throughout the Rogue & Applegate Valley, such as to and from school. The class will meet virtually in week 1 for an orientation and cover course expectations and requirements as well as basic safety and bicycle maintenance. Students will provide evidence of completion of assigned rides to Instructor through shared STRAVA (or other) app use and submit a journal for each ride through Blackboard. Course is repeatable.

Course Learning Outcomes:

CLO#1: Demonstrate improvement in increased cardio-respiratory endurance, increased muscle strength and endurance, and improvement of road cycling skills by completing progressively more difficult rides and challenges.

CLO#2: Participate in all aspects of the course everyday including warmups, rides, maintenance and safety procedures to develop a lifelong love of fitness through biking. (ILO: Critical Thinking)

CLO#3: Demonstrate basic bicycle maintenance, personal gear and safety procedures that contribute to the group goal of successful rides.

CLO#4: Students will be assessed and held accountable by the Instructor for self-management and logging required rides through electronic means.

Typical Required and Recommended Equipment and Materials: Required: road bike, helmet, water bottle(s) or hydration pack, proper footwear, eye protection, replacement tubes, nutrition, and hydration. Optional: bike tools, pumps, clip pedals, clip shoes, cycling gloves, padded bike shorts, heart rate monitor.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185RR - Rafting the River

1 Credit(s)

Prerequisite(s):

Ability to breathe independently (i.e., not require medical devices to sustain breathing); independently maintain sealed airway passages while underwater; independently hold head upright without neck/head support; manage personal care independently; manage personal mobility independently; follow instructions and effectively communicate independently; and independently turn from face-down to face-up and remain floating face up while wearing a properly fitted life jacket.

Course Description: Offers beginners and seasoned river runners a unique educational, outdoor adventure. Students will learn to raft various parts of the Rogue River based on the ACA's Essentials of Rafting curriculum Levels 1-3. The course is designed to heighten a student's enjoyment of the river and its beauty, both as a spectator and as a participant of the rafting adventure in still waters up to mild rapids. Includes the skills required to efficiently row and paddle a raft on rivers by mastering skills such as using good judgement and organization, river reading, safety considerations, and paddling and rowing techniques such as forward/pushing, back/pulling, opposing, single and dual oar use, facing down and upstream on the river, turn craft to left, right, straight, reverse, spin-pivot turn, turn broad arcing while underway, river strategies, rowing in current, scouting, portaging/lining, and river signals. Students will enjoy boating skills that provide lifelong recreational learning and fitness enjoyment. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate personal preparation for whitewater rafting trip.
- CLO#2: Exhibit correct rowing technique and ability.
- CLO#3: Maneuver in calm water satisfactorily.
- CLO#4: Demonstrate "Run the river" principles.
- CLO#5: Identify hazards and hydrology of the river environment.
- CLO#6: Recognize boating safety and rescue procedures. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Clothing for river trip will be discussed at the first meeting. An additional course fee is required for rafts, equipment and transportation.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185SA - Surfing Adventure

1 Credit(s)

Prerequisite(s):

Ability to float, swim, tread water and carry a surfboard into the ocean to at least waist-deep water.

Course Description: Provides training and practical application in the skills associated with longboard surfing. Surfing combines physical exercise, balance, and constant observation of one's environment. Students will enjoy the waves, wind, beach, and interacting with other surfers. Includes safety considerations in the ocean environment, communication, equipment usage and care, reading waves, wind, and tides, paddling, standing, balancing, turning, the "art of wiping

out", and surfing etiquette. Class includes a three-day, two-night surfing expedition. Students will be responsible for their own food, camping equipment, clothing, and transportation to and from the site, as well as travel to and from camping location. Participation in all aspects of the orientation and trip are necessary to successfully complete the course. Course is repeatable.

Course Learning Outcomes:

CLO#1: Demonstrate improved ability in elements of surfing.

CLO#2: Participate as part of the surfing team and practice effective communication.

CLO#3: Demonstrate principles of "camp craft". (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Required: Food, camping equipment, transportation to and from the coast, necessary gear and clothing such as a surfboard, wet suit (rentals available for both), and appropriate clothing.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185SB - Snow Skiing - Snowboarding

1 Credit(s)

Prerequisite(s):

Ability to stand on skis or snowboard and maintain balance while developing techniques on the mountain.

Course Description: Designed to teach the complete range of alpine skiing or snowboarding skills, from basic to advanced techniques, in small group settings of students based on ability levels. It is designed to help students achieve personal fitness goals, while having fun and interacting with others. Upon completion of this course students will show improvement in downhill techniques, develop an understanding of rules and etiquette of the sport and be able to view the sport with greater appreciation of the techniques and skills required. RCC HPER Department will communicate with instructors from Southern Oregon University, and the Mt. Ashland ski/snowboard instructors to offer a seamless experience of combining students from two educational institutions. Course is repeatable.

Course Learning Outcomes:

CLO#1: Participation and class interaction.

CLO#2: Demonstrate proper form, technique and positioning for fundamental skills and basic theory of skiing/snowboarding, including edges, and positioning.

CLO#3: Attempt to perfect skiing/boarding maneuvers according to individual ability level within the group setting.

CLO#4: Snowboarders and Alpine skiers will achieve and demonstrate a personal level of comfort in speed and finesse in either snowboarding or skiing techniques. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Students may rent or bring snowboard, skis, poles, and boots. Students are also required to bring gloves and goggles in cold weather.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185SC - Soccer and Conditioning

1 Credit(s)

Prerequisite(s):

Ability to lift weights, use cardio equipment, and participate in small sided soccer games.

Course Description: Encompasses body composition evaluation and fitness assessments, a variety of the fitness industry's weight training programs/activities that involve muscle endurance and strength, aerobic activities for improved cardiovascular endurance and circulation, and stretching for flexibility specifically for soccer players. Students are paired together and will be put through intense circuit training each day. Each grouping of exercises has a set number of repetitions to be completed in a certain amount of time as displayed on the instructor's clock. Each session is a full body workout that includes major muscle groups of the upper body, lower body, and core. Each class ends in a short soccer match. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Daily participation and full effort in class to maintain and to improve fitness components.
- CLO#2: Self-assess physical performance and demonstrate continuous improvement. Make an initial assessment of one's current physical status to obtain personal performance levels and demonstrate improvements by the end of the term.
- CLO#3: Display self-management skills by organizing and maintaining information and set SMART goals.
- CLO#4: Monitor and correct lifting form according to performance and safety levels: spot for other lifters, isolate muscle groups effectively, use activity formulas, and demonstrate lifting techniques. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Athletic shoes, shorts, and short sleeved shirts - no sleeveless shirts or open toed shoes.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185SD - Scuba Diving

1 Credit(s)

Course Description: Designed to foster the development of proper and safe techniques in obtaining an Open Water Diver certificate issued by Scuba Schools International (SSI.) The course offers students classroom instruction, pool practice, and a minimum of 4 open water dives of 20 minutes each, in rivers, lakes or ocean. This certificate allows certificate holders to dive to a

maximum depth of 60' in open water with another certified diver. The 2-part water skills are: Confined Water sessions at the YMCA and open water, 2-day weekend at a local river or lake. Additional fees are required. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Complete all course participation requirements, quizzes and a written scuba exam at 80% on safety practices of diving.
- CLO#2: Demonstrate proficiency in the designated skills in BCD tank, weight belt and buddy check. (ILO: Critical Thinking)
- CLO#3: In shallow pool: Demonstrate clearing mask and snorkel, clear and recover regulator and inflation and deflation of BCD in shallow pool.
- CLO#4: In deep pool demonstrate skills of shallow water procedures and complete procedures and skills for deep water dive.
- CLO#5: Demonstrate procedures and skills required from or to land/shore.
- CLO#6: Demonstrate swimming skills, problem solving skills, rescue swimming and proper care of equipment.
- CLO#7: Successfully complete four dives.

Typical Required and Recommended Equipment and Materials: Swimsuit and towel

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185SI - Soccer - Indoor

1 Credit(s)

Prerequisite(s):

Students need to be able to run and kick a ball to fully participate in all activities.

Course Description: Provides instruction in all areas of indoor soccer: essential components of skill sets, game tactics, offensive and defensive strategies, and fundamentals of team play. Students in soccer will learn the fundamental rules and skills that will provide them lifelong recreational learning and fitness enjoyment. Through this course, students will foster qualities of sportsmanship, team play, collaboration, cardio-respiratory fitness and commitment. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Participate as a soccer team member and follow skills and exercises designed to support the sport.
- CLO#2: Demonstrate improvement in pre- to post fitness and skill levels.
- CLO#3: Display teamwork and fair play.
- CLO#4: Demonstrate a combination of FIFA soccer rules and skills. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Appropriate soccer attire. Shin guards and soccer shoes are recommended. Balls and equipment are provided.

ACTI Code and Course Type

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185SS - Step and Stuff

1 Credit(s)

Course Description: Develops individual cardiovascular fitness, muscular strength and endurance, flexibility and stability through group exercise activities utilizing the step platforms and various other exercise equipment. Learn about basic step moves, starting out easy and working up to more advanced moves, as well as mat work, stability balls, free weights, step/platforms and exercise bands to strengthen muscle, increase endurance, stretch bodies, and abdominal/core work. Each class begins with a warm-up, including toning and dynamic stretching of all major muscle groups, followed by 40-55 minutes of fitness activities. Every class ends with a cool-down period focusing on static stretching, breathing, body alignment, and relaxation. At the end of class, the Instructor will discuss handouts and information such as the benefits of breathing and exercise, the prevention and care of exercise-related injuries, muscles, diet, physiology, and information related to health. Course is repeatable.

Course Learning Outcomes:

CLO#1: Practice safe exercises for the heart and entire body.

CLO#2: Demonstrate improvement in body composition.

CLO#3: Identify the major muscle groups and proper use, injury prevention and recovery.

CLO#4: Present a routine or specific exercise or present information on a fitness-related topic
(ILO: Communication)

Typical Required and Recommended Equipment and Materials: Workout clothes, athletic shoes and water

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per week, not to exceed (36) hours per week.

PE 185TC - Tai Chi

1 Credit(s)

Prerequisite(s):

Ability to engage in specific movement patterns.

Course Description: For beginners as well as more advanced students of Tai Chi, students will learn techniques for relaxation and stress reduction using the Yang style of Tai Chi and various breathing exercises. The relationship of Tai Chi to martial arts and the applications of the various postures will be explained. Learning to do the forms is one objective of this course, but the emphasis is on understanding the concepts of Tai Chi as related to stress reduction and relaxation. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Identify and demonstrate concepts of the Yang style of Tai Chi.
CLO#2: Demonstrate improvement in self-management and corrected performance.
CLO#3: Interpret and explain the relationship of breathing exercises to Tai Chi.
CLO#4: Demonstrate comprehension and applied skills of Tai Chi terminology and comprehension as instructor calls forms. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Loose fitting clothes.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185TX - TRX and Functional Fitness

1 Credit(s)

Course Description: Provides students the opportunity to develop individual cardiovascular fitness, flexibility, and muscular strength and endurance through a range of individual and group exercise activities. Each class will begin with a warm-up including toning and dynamic stretching of all major muscle groups, followed by 40 to 55 minutes of activities that support functional movement and strength gains: the TRX band system, weights, steps, medicine ball, resistance bands, stability balls are among the activities and equipment included. Every class will end with a cool-down period focusing on static stretching and relaxation. Mini-lecture sections will cover benefits of exercise, functional strength for optimal wellness, proper breathing and execution of exercises, prevention and care of exercise-related injuries, diet, major muscles groups and body anatomy, and information on related health issues. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate proper & safe exercise in more than one fitness style.
CLO#2: Demonstrate progress toward a healthy lifestyle. (ILO: Critical Thinking)
CLO#3: Identify the major muscle groups, effective and safe use, injury prevention and recovery.
CLO#4: Develop and present a routine or specific exercise, or present information on a fitness-related topic.

Typical Required and Recommended Equipment and Materials: Workout clothes, court shoes, a hand towel and water. Weight training type gloves may be worn.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours in term, not to exceed (36) hours per term.

PE 185VB - Volleyball Co-Ed

1 Credit(s)

Prerequisite(s):

Sufficient physical ability to move on the court and pass/hit a volleyball.

Course Description: Learn the fundamental rules and skills that will provide lifelong recreational learning and fitness enjoyment of volleyball. This course is designed to allow students to master basic volleyball proficiency, acquire advanced skills, gain knowledge of game tactics, offensive and defensive strategies, develop communication with teammates, and practice fair play in a lifetime sport. Through this course, students will foster qualities of sportsmanship, team play, collaboration. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Participate as a volleyball team member and follow skills and exercises designed to support the sport.
- CLO#2: Demonstrate individual improvement in proper form and accuracy in volleyball skills.
(ILO: Critical Thinking)
- CLO#3: Display the basic game rules and term.
- CLO#4: Demonstrate fundamental mastery of playing volleyball in a game setting with defensive and offensive strategies.

Typical Required and Recommended Equipment and Materials: Knee pads/elbow pads as the student requires.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185WL - Walking for a Healthy Lifestyle

1 Credit(s)

Course Description: Students will learn how walking benefits the entire body by including discussions on mental health, social health, proprioception, and physical health. The atmosphere will be positive and motivating to help promote and model a healthy lifestyle. Focuses on 3 main components: 1) Body alignment and physiology of walking and jogging; 2) Pre and Post assessments for physical fitness; 3) Utilizing walking as a strategy to manage stress and anxiety. Helps students to build a strong foundation to begin or maintain their own cardio fitness program. This course, while focusing on walking and jogging for cardiovascular health, will also incorporate various aspects to allow students to develop physically, emotionally, and intellectually. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Apply principles of body alignment and knowledge of physiology while walking or jogging.
- CLO#2: Interpret and analyze individual fitness assessment results based on pre- and post-assessment measurements. (ILO: Critical Thinking)
- CLO#3: Design a 2/3 mile walking and jogging route in collaboration with other students.
- CLO#4: Design a personal stress management plan based on current stress levels.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185WS - Winter Survival - Camping Adventure**1 Credit(s)****Prerequisite(s):**

Ability to walk in the snowy wilderness for short distances with a backpack containing personal gear.

Course Description: Provides training and practical application of learning to deal with the extremes of winter and camping in the snow. The winter environment poses many inherent challenges to travelers and outdoor adventure participants. Every year, individuals and families enter the wilderness and find themselves unprepared for peril due to accident, poor planning, or lack of education. The class requires a three-hour mandatory orientation session on campus to cover winter clothing and equipment, survival essentials, avalanche awareness, snow travel options, snow shelter building, hypothermia, and frostbite prevention and treatment. A one-day snow trip is scheduled before the actual adventure, to learn and practice winter skills in daylight hours. The course culminates in a two-day, overnight snow camping trip. The general schedule is: hike to camping destination, construct snow shelter, set up evening camp preparations, dinner and sleep arrangements. Day two: breakfast, snow activities, lunch, travel back to snow-park, debrief. An additional fee is required. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Participate in winter wilderness hiking and operate as engaged team member.
- CLO#2: Develop skills to plan and allocate material, equipment and food through snow travel.
- CLO#3: Demonstrate ability to set up tents, start camp stoves, camp with craft and low impact, navigate with map and compass, hike with a group. (ILO: Critical Thinking)
- CLO#4: Apply leadership skills through completion of challenges.

Typical Required and Recommended Equipment and Materials: Required: Backpack, tent, sleeping bag, boots, cooking utensils and appropriate clothing. Recommended: Snowshoes, cross-country skis or backcountry skis. Some equipment such as stoves, fuel, and pots may be shared.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185WT - Weight Training - Conditioning**1 Credit(s)****Prerequisite(s):**

Ability to lift weights and use cardio equipment.

Course Description: Encompasses body composition evaluation, fitness assessments, a variety of the newest fitness industry weight training programs/activities – such as EMOMs and

supersets – that involve muscle endurance and strength, aerobic activities for improved cardiovascular endurance and circulation, and stretching for flexibility. Students meet with the instructor and create an individual workout based on components of best practices in the fitness industry. Incorporates fitness and weight lifting activities to accommodate each student's ability and need by designing a workout to address individual performance levels and student goals. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Participation and class interaction to improve fitness components.
- CLO#2: Demonstrate improvement in personal performance levels. (ILO: Critical Thinking)
- CLO#3: Display self-management skills by organizing and maintaining information of personal records and set SMART Goals.
- CLO#4: Demonstrate lifting proficiency by self-monitoring lifting forms that improve general health and fitness status according to performance and safety levels.
- CLO#5: Demonstrate mastery in concepts and forms of Tabata, EMOM, TRX, circuit, cluster, flexibility, mobility/functional, super-set, and tri-set training methods.
- CLO#6: Demonstrate a functional ability to discuss common fitness terms. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Good, supportive athletic shoes and comfortable clothing: short sleeve shirts - no sleeveless shirts.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185YB - Yoga Balance and Core

1 Credit(s)

Prerequisite(s):

Ability to follow slow poses and movements.

Course Description: Yoga, balance and core is inspired by Yoga and Pilates with added core and strength conditioning. This class is designed to include exercises that increase strength, stamina, stability, balance, flexibility, and focus on the core muscles. Poses are held for several breaths to focus on increasing strength, while a rhythmic, flowing style generates heat in the body. This blend of focus and flow incorporate dynamic balance and functional training that challenge strength and balance, and emphasize the athleticism of yoga and Pilates. Classes end in a traditional way with deep relaxation and meditation. Modifications available for all fitness levels, no prior yoga or Pilates experience is required. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate safe and easy exercise routines for flexibility and entire body.
- CLO#2: Demonstrate improvement in the targeted areas of greater flexibility and increased muscle strength and endurance. (ILO: Critical Thinking)
- CLO#3: Demonstrate various yoga poses (asanas), alignment principles, breathing techniques (pranayamas) and states of mindfulness to connect the emotional well-being with physical wellness.

CLO#4: Display leadership skills.

Typical Required and Recommended Equipment and Materials: Comfortable workout clothes, personal yoga mat, and water.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185YF - Yoga Flow

1 Credit(s)

Prerequisite(s):

Ability to follow the instructor's movements in Yoga/Tai Chi/Pilates style actions.

Course Description: Yoga Flow is inspired by Yoga, Tai Chi and Qi Gong with added core and strength conditioning. This class is designed to include exercises that increase strength, stamina, stability, balance, flexibility, and focus on the core muscles. Poses are held for several breaths to focus on increasing strength, while a rhythmic, flowing style generates heat in the body. This blend of focus and flow incorporate dynamic balance and functional training that challenge strength and balance, and emphasize the athleticism of yoga. Classes end in a traditional way with deep relaxation and meditation. Modifications available for all fitness levels, no prior yoga, Tai Chi or Qi Gong experience is required. Course is repeatable.

Course Learning Outcomes:

CLO#1: Participation and demonstration of safe and easy exercise yoga flow poses.

CLO#2: Show improvement in the targeted areas of body composition.

CLO#3: Demonstrate proficiency in various yoga flow poses, Tia Chi forms, alignment principles, and breathing techniques.

CLO#4: Demonstrate leadership by leading the class through a short presentation of yoga flow principles. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Comfortable workout clothes, personal yoga mat, and water.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185YO - Yoga

1 Credit(s)

Course Description: Offers an effective method for reducing stress and creating a relaxation response within the body and mind. Through a series of controlled exercises, stretching, and breathing techniques, this course will give students firsthand experience with the concepts and applications of being responsible for improving health. Yoga enhances flexibility, strength,

coordination, lung capacity and balance through a system of gentle movements: various yoga poses (asanas), alignment principles, and breathing techniques (pranayamas). Students of all ability levels and all faith systems are welcome. Course is repeatable.

Course Learning Outcomes:

CLO#1: Demonstrate proper and safe exercising.

CLO#2: Demonstrate improvement in the targeted areas of greater comfort, effectiveness, and ease of yoga poses. (ILO: Critical Thinking)

CLO#3: Demonstrate proficiency of various yoga poses and principles.

CLO#4: Demonstrate leadership by facilitating small group yoga lesson.

Typical Required and Recommended Equipment and Materials: Advised to bring a personal yoga mat, and to wear loose, comfortable clothing.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185ZL - Zip Line Guide Technical Skills

1 Credit(s)

Prerequisite(s):

Physical fitness in order to perform required duties of zip line guide.

Course Description: Provides training and practical application in the skills associated with zip line challenge course facilitation. Students will learn the technical skills and safety procedures for safe zip line facilitation expectations. Combines physical demands, balance, and constant observation of one's environment. Includes all safety considerations and procedures, communication, equipment usage and care, and etiquette. Course is given over two weekends. Participation in all aspects of the orientation and trip are necessary to successfully complete the course. Course is repeatable.

Course Learning Outcomes:

CLO#1: Demonstrate the technical skills of tying knots, performing safety checks, physically "gearing up" guests, performing equipment inspections, equipment use, and checking brake system operation.

CLO#2: Demonstrate the skills to lead team on proper procedures and safety guidelines. (ILO: Communication)

CLO#3: Demonstrate procedures of sending and receiving guests down the zip line and zipping first as the leading zip line guide.

CLO#4: Demonstrate compliance with and competency with industry standards.

CLO#5: Operate as a respectful and engaged group member.

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 185ZM - Zumba ®**1 Credit(s)**

Course Description: Zumba ® is a Latin-inspired, dance-fitness class that incorporates Latin and international music with dance movements, creating a dynamic, exciting, and effective fitness workout. This class combines fast and slow rhythms that tone and sculpt the body in an aerobic/fitness fashion to achieve a unique blended balance of cardio and muscle toning movements through easy-to-follow steps. Movements target areas such as the legs, arms, core, abdominal, and the most important muscle in the body, the heart. Students are encouraged to work at their own paces. Activities include: muscular endurance, cardio-vascular endurance, body composition, flexibility, and learning the basic muscle groups.

Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate basic Zumba ® forms properly and Zumba ® dance fitness style.
- CLO#2: Demonstrate improvement in fundamental combinations of Zumba ® style dancing in impromptu and choreographed dances.
- CLO#3: Memorize basic anatomy and physiology of large muscle groups used during Zumba ® dance and simple health concepts.
- CLO#4: Demonstrate leadership by leading the class through 30+ second routine or present information on a fitness-related topic of student's choice. (ILO: Communication)

Typical Required and Recommended Equipment and Materials: Workout clothes, exercise shoes that do not have tread on the bottom and are meant for medial/lateral/twisting motion, and water.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab (physical education activity course) hours per term, not to exceed (36) hours per term.

PE 199 - Special Studies - PE**Var. (1-3) Credit(s)**

Course Description: Offers selected topics of study in physical education through workshop and field study format. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate improvement in the targeted areas of body composition: (a) flexibility, (b) cardio-respiratory endurance, (c) lung capacity, (d) fat percentage and/or measurements, (e) muscle strength and endurance.
- CLO#2: Demonstrate proper exercise form for identified skills and activities. (ILO: Critical Thinking)

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term..

PE 280 - CWE - Physical Education

Var. (1-12) Credit(s)

Prerequisite(s):

Permission of CWE Instructor or Department Chair.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their programs. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate the ability to successfully complete the interview process.
- CLO#2: Demonstrate the importance of completing forms accurately and meeting deadlines.
- CLO#3: Demonstrate the importance of an acceptable work ethic as described in the CWE Work Ethic and Professional Presence Guidelines and student's learning objectives.
- CLO#4: Demonstrate good work performance (student's learning objectives). (ILO: Critical Thinking)

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

PE 291 - Red Cross Lifeguard Training

2 Credit(s)

Prerequisite(s):

Minimum 16 years of age and ability to pass swimming tests (freestyle, side stroke, and breast stroke).

Course Description: Provides training for potential lifeguards in lifesaving skills in the event of an emergency. Includes a three-year Red Cross lifeguard training certification and a two-year CPR/AED professional rescuer certification with successful completion of the course. Through videos, group discussion, and both hands on and pool practice, students will learn surveillance skills, patron rescue, first aid and CPR/AED.

Course Learning Outcomes:

- CLO#1: Complete Red Cross swim tests with sufficient times and indicators to allow life guard certification.
- CLO#2: Recognize problem situations and apply professional and appropriate lifesaving techniques to ensure personal safety and safety of any other persons involved.
- CLO#3: Demonstrate ability to triage and complete risk evaluation while working effectively with others recognizing personal responsibility in the overall successful efforts of the team.
- CLO#4: Successfully complete Red Cross Professional Rescuer CPR course skills and exam. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: All materials recommended by the American Red Cross for the lifeguard program.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture/lab hours per term, not to exceed (48) hours per term.

Physics

PH 201 - General Physics I**4 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

MTH 112Z or higher-level math course, or designated placement

Corequisite(s):

PH 201L

Course Description: This is the first term of a three-term algebra-based physics course. Conservation laws and Newtonian mechanics are covered. This includes but is not limited to force and motion, forms of energy (including kinetic potential and various types of internal energy such as rotational, thermal and latent), conservation of momentum, conservation of angular momentum, conservation of energy, Newton's laws, kinematics, free-body diagrams, net force equations, torque and orbital mechanics. Students must enroll in lecture and laboratory. Both sections are required and to be taken concurrently.

Course Learning Outcomes:

- CLO#1: Use vectors, algebra, dimensional analysis, and logical reasoning to solve general physics problems. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Use conservation laws (momentum, angular momentum, energy) to analyze physical systems.

CLO#3: Use Newton's laws to describe and predict the motion of objects.

CLO#4: Select the equations appropriate to the constraints of a given physics problem.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PH 201L - General Physics I Lab

1 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required, and

MTH 112Z or higher-level math course, or designated placement.

Corequisite(s):

PH 201

Course Description: This is the first term of a three-term algebra-based physics course. Conservation laws and Newtonian mechanics are covered. This includes but is not limited to force and motion, forms of energy (including kinetic potential and various types of internal energy such as rotational, thermal and latent), conservation of momentum, conservation of angular momentum, conservation of energy, Newton's laws, kinematics, free-body diagrams, net force equations, torque and orbital mechanics. Students must enroll in lecture and laboratory. Both sections are required and to be taken concurrently.

Course Learning Outcomes:

CLO#1: Apply conservation laws in physics (momentum, angular momentum, energy).

CLO#2: Apply Newton's laws (inertia, force, mass, acceleration, action, reaction).

CLO#3: Interpret laboratory data to draw conclusions about general physics experiments.

(ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Scientific calculator, Ruler, Protractor, Mechanical pencil, Eraser, Engineering paper

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

PH 202 - General Physics II

4 Credit(s)

Prerequisite(s):

PH 201, PH 201L or PH 211, PH 211L

Corequisite(s):

PH 202L

Course Description: This is the second term of a three-term algebra-based physics course. Special relativity and electromagnetism are covered. This includes but is not limited to spacetime diagrams, time dilation, length contraction, conservation of four-momentum, electrostatics, fields, current, voltage, circuits, magnetism, induction, Maxwell's equations and electromagnetic waves. Students must enroll in lecture and laboratory. Both sections are required and to be taken concurrently.

Course Learning Outcomes:

CLO#1: Use vectors, algebra, dimensional analysis, and logical reasoning to solve general physics problems. (ILO: Quantitative Literacy and Reasoning)

CLO#2: Solve general physics problems by making reasonable assumptions and simplifications when information is incomplete.

CLO#3: Apply the principles of special relativity and electromagnetism.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PH 202L - General Physics II Lab

1 Credit(s)

Prerequisite(s):

PH 201, PH 201L or PH 211, PH 211L

Corequisite(s):

PH 202

Course Description: This is the second term of a three-term algebra-based physics course. Special relativity and electromagnetism are covered. This includes but is not limited to spacetime diagrams, time dilation, length contraction, conservation of four-momentum, electrostatics, fields, current, voltage, circuits, magnetism, induction, Maxwell's equations and electromagnetic waves. Students must enroll in lecture and laboratory. Both sections are required and to be taken concurrently.

Course Learning Outcomes:

CLO#1: Use vectors, algebra, dimensional analysis, and logical reasoning to solve general physics problems resourcefully. (ILO: Quantitative Literacy and Reasoning)

CLO#2: Make sensible assumptions and simplifications to solve general physics problems when it appears that not enough information is provided.

CLO#3: Apply the basic principles geometric optics.

CLO#4: Apply basic principles of electrostatics (charge, field, potential).

CLO#5: Apply basic principles of electric current (circuits, Ohm's law).

CLO#6: Apply basic principles of electromagnetism (currents, magnets, electromagnetic fields).

CLO#7: Interpret laboratory data to draw conclusions about general physics experiments.

Typical Required and Recommended Equipment and Materials: Scientific calculator, Ruler, Protractor, Mechanical pencil, Eraser, Engineering paper

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

PH 203 - General Physics III

4 Credit(s)

Prerequisite(s):

PH 202, PH 202L or PH 212, PH 212L

Corequisite(s):

PH 203L

Course Description: This is the third term of a three-term algebra-based physics course. Waves, quantum mechanics, thermodynamics and statistical mechanics are covered. This includes but is not limited to wave interference, diffraction, photoelectric effect, wave-particle duality, Schrodinger wave equation, spectra, heat capacity, kinetic molecular theory, multiplicity, entropy, ideal gas law, cyclic processes, laws of thermodynamics and heat engines. Students must enroll in lecture and laboratory. Both sections are required and to be taken concurrently.

Course Learning Outcomes:

CLO#1: Use vectors, algebra, dimensional analysis, and logical reasoning to solve general physics problems. (ILO: Quantitative Literacy and Reasoning)

CLO#2: Make sensible assumptions and simplifications to solve physics problems with incomplete information.

CLO#3: Use Maxwell's equations to analyze magnetic flux, electromagnetic induction, and electromagnetic radiation.

CLO#4: Apply wave physics principles (interference, diffraction, resonance, wave-particle duality) to physical systems.

CLO#5: Apply fundamental quantum mechanics concepts (probability, spin, wave function, spectroscopy, Schrödinger equation, nuclear physics) to problem-solving.

CLO#6: Use thermodynamic principles (multiplicity, entropy, Boltzmann factors, gases, distributions, cyclic processes, engines) to analyze energy and heat transfer.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PH 203L - General Physics III Lab

1 Credit(s)

Prerequisite(s):

PH 202, PH 202L or PH 212, PH 212L

Corequisite(s):

PH 203

Course Description: This is the third term of a three-term algebra-based physics course. Waves, quantum mechanics, thermodynamics and statistical mechanics are covered. This includes but is not limited to wave interference, diffraction, photoelectric effect, wave-particle duality, Schrodinger wave equation, spectra, heat capacity, kinetic molecular theory, multiplicity, entropy, ideal gas law, cyclic processes, laws of thermodynamics and heat engines. Students must enroll in lecture and laboratory. Both sections are required and to be taken concurrently.

Course Learning Outcomes:

- CLO#1: Use vectors, algebra, dimensional analysis, and logical reasoning to solve general physics problems resourcefully. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Make sensible assumptions and simplifications to solve general physics problems, when it appears that not enough information is provided.
- CLO#3: Apply Maxwell's equations in the context of magnetic flux, electromagnetic induction, and electromagnetic radiation.
- CLO#4: Apply basic principles of wave physics (interference, diffraction, resonance, wave-particle duality).
- CLO#5: Apply basic principles of quantum mechanics (probability, spin, wave function, spectroscopy, Schrödinger equation, nuclear physics).
- CLO#6: Apply basic principles of thermodynamics (multiplicity, entropy, Boltzmann factors, gases, distributions, cyclic processes, engines).
- CLO#7: Interpret laboratory data to draw conclusions about general physics experiments.

Typical Required and Recommended Equipment and Materials: Scientific calculator, Ruler, Protractor, Mechanical pencil, Eraser, Engineering paper

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

PH 211 - General Physics - Calculus I

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required, and

MTH 112Z or higher-level math course, or designated placement.

Corequisite(s):

MTH 251Z, PH 211L

Course Description: This is the first term of a three-term calculus-based physics course. Conservation laws and Newtonian mechanics are covered. This includes but is not limited to forces and motion, forms of energy (including kinetic potential and various types of internal energy such as rotational, thermal and latent), conservation of momentum, conservation of angular momentum, conservation of energy, Newton's laws, kinematics, free-body diagrams, net force equations, torque and orbital mechanics. Students must enroll in lecture and laboratory. Both sections are required and to be taken concurrently.

Course Learning Outcomes:

CLO#1: Use vectors, algebra, calculus, dimensional analysis, and logical reasoning to solve general physics problems. (ILO: Quantitative Literacy and Reasoning)

CLO#2: Make sensible assumptions and simplifications to solve physics problems with incomplete information.

CLO#3: Apply conservation laws in physics (momentum, angular momentum, energy) using calculus where appropriate.

CLO#4: Apply Newton's laws (inertia, force, mass, acceleration, action, reaction) using calculus where appropriate.

CLO#5: Select the equations (using calculus where needed) appropriate to the constraints of a given physics problem.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PH 211L - General Physics - Calculus I Lab

1 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required, and

MTH 112Z or higher-level math course, or designated placement.

Corequisite(s):

MTH 251Z and PH 211

Course Description: This is the first term of a three-term calculus-based physics course. Conservation laws and Newtonian mechanics are covered. This includes but is not limited to forces and motion, forms of energy (including kinetic potential and various types of internal energy such as rotational, thermal and latent), conservation of momentum, conservation of angular momentum, conservation of energy, Newton's laws, kinematics, free-body diagrams, net force equations, torque and orbital mechanics. Students must enroll in lecture and laboratory.

Both sections are required and to be taken concurrently.

Course Learning Outcomes:

- CLO#1: Use vectors, algebra, calculus, dimensional analysis, and logical reasoning to solve general physics problems resourcefully. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Make sensible assumptions and simplifications to solve general physics problems, when it appears that not enough information is provided.
- CLO#3: Apply conservation laws in physics (momentum, angular momentum, energy) using calculus where appropriate.
- CLO#4: Apply Newton's laws (inertia, force, mass, acceleration, action, reaction) using calculus where appropriate.
- CLO#5: Select the proper equations, using calculus where appropriate, to the constraints of a given physics problem.

Typical Required and Recommended Equipment and Materials: Scientific calculator Ruler Protractor Mechanical pencil Eraser Engineering paper

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

PH 212 - General Physics - Calculus II

4 Credit(s)

Prerequisite(s):

MTH 251Z, PH 211, PH 211L

Corequisite(s):

MTH 252Z, PH 212L

Course Description: This is the second term of a three-term calculus-based physics course. Special relativity and electromagnetism are covered. This includes but is not limited to spacetime diagrams, time dilation, length contraction, conservation of four-momentum, electrostatics, fields, current, voltage, circuits, magnetism, induction, Maxwell's equations and electromagnetic waves. Students must enroll in lecture and laboratory. Both sections are required and to be taken concurrently.

Course Learning Outcomes:

- CLO#1: Use vectors, algebra, calculus, dimensional analysis, and logical reasoning to solve general physics problems. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Make sensible assumptions and simplifications to solve physics problems with incomplete information.
- CLO#3: Apply the principles of special relativity and electromagnetism, using calculus where appropriate.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PH 212L - General Physics - Calculus II Lab**1 Credit(s)****Prerequisite(s):**

MTH 251Z, PH 211, PH 211L

Corequisite(s):

MTH 252Z and PH 212

Course Description: This is the second term of a three-term calculus-based physics course. Special relativity and electromagnetism are covered. This includes but is not limited to spacetime diagrams, time dilation, length contraction, conservation of four-momentum, electrostatics, fields, current, voltage, circuits, magnetism, induction, Maxwell's equations and electromagnetic waves. Students must enroll in lecture and laboratory. Both sections are required and to be taken concurrently.

Course Learning Outcomes:

CLO#1: Use vectors, algebra, calculus, dimensional analysis, and logical reasoning to solve general physics problems resourcefully. (ILO: Quantitative Literacy and Reasoning)

CLO#2: Make sensible assumptions and simplifications to solve general physics problems, when it appears that not enough information is provided.

CLO#3: Apply the principles of geometric optics, using calculus where appropriate. (coordinate time, proper time, spacetime interval, spacetime diagram, coordinate transformations, cosmic speed limit, conservation of four-momentum, relativistic Doppler effect).

CLO#4: Apply principles of electrostatics (charge, field, potential) using calculus where appropriate.

CLO#5: Apply principles of electric current (circuits, Ohm's law) using calculus where appropriate.

CLO#6: Apply principles of electromagnetism (currents, magnets, electromagnetic fields) using calculus where appropriate.

CLO#7: Interpret laboratory data to draw conclusions about general physics experiments.

Typical Required and Recommended Equipment and Materials: Scientific calculator, Ruler, Protractor, Mechanical pencil, Good eraser, Green engineering paper

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

PH 213 - General Physics - Calculus III

4 Credit(s)**Prerequisite(s):**

MTH 252Z, PH 212, PH 212L

Corequisite(s):

PH 213L

Course Description: This is the third term of a three-term calculus-based physics course. Waves, quantum mechanics, thermodynamics and statistical mechanics are covered. This includes but is not limited to wave interference, diffraction, photoelectric effect, wave-particle duality, Schrodinger wave equation, spectra, heat capacity, kinetic molecular theory, multiplicity, entropy, ideal gas law, cyclic processes, laws of thermodynamics and heat engines. Students must enroll in lecture and laboratory. Both sections are required and to be taken concurrently.

Course Learning Outcomes:

- CLO#1: Use vectors, algebra, calculus, dimensional analysis, and logical reasoning to solve general physics problems. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Make sensible assumptions and simplifications to solve physics problems with incomplete information.
- CLO#3: Explain and apply Maxwell's equations in the context of magnetic flux, electromagnetic induction, and electromagnetic radiation.
- CLO#4: Explain and apply principles of wave physics (interference, diffraction, resonance, wave-particle duality), using calculus where appropriate.
- CLO#5: Explain and apply principles of quantum mechanics (probability, spin, wave function, spectroscopy, Schrödinger equation, nuclear physics), using calculus where appropriate.
- CLO#6: Explain and apply principles of thermodynamics (multiplicity, entropy, Boltzmann factors, gases, distributions, cyclic processes, engines) using calculus where appropriate.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PH 213L - General Physics - Calculus III Lab**1 Credit(s)****Prerequisite(s):**

MTH 252Z, PH 212, PH 212L

Corequisite(s):

PH 213

Course Description: This is the third term of a three-term calculus-based physics course. Waves, quantum mechanics, thermodynamics and statistical mechanics are covered. This includes but is not limited to wave interference, diffraction, photoelectric effect, wave-particle duality, Schrödinger wave equation, spectra, heat capacity, kinetic molecular theory, multiplicity, entropy, ideal gas law, cyclic processes, laws of thermodynamics and heat engines. Students

must enroll in lecture and laboratory. Both sections are required and to be taken concurrently.

Course Learning Outcomes:

- CLO#1: Use vectors, algebra, calculus, dimensional analysis, and logical reasoning to solve general physics problems resourcefully. (ILO: Quantitative Literacy and Reasoning)
- CLO#2: Make sensible assumptions and simplifications to solve general physics problems, when it appears that not enough information is provided.
- CLO#3: Apply Maxwell's equations in the context of magnetic flux, electromagnetic induction, and electromagnetic radiation.
- CLO#4: Apply basic principles of wave physics (interference, diffraction, resonance, wave-particle duality).
- CLO#5: Apply basic principles of quantum mechanics (probability, spin, wave function, spectroscopy, Schrodinger equation, nuclear physics).
- CLO#6: Apply basic principles of thermodynamics (multiplicity, entropy, Boltzmann factors, gases, distributions, cyclic processes, engines).
- CLO#7: Interpret laboratory data to draw conclusions about general physics experiments.

Typical Required and Recommended Equipment and Materials: Scientific calculator, Ruler, Protractor, Mechanical pencil, Good eraser, Engineering paper

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

Philosophy

PHL 101 - Philosophical Problems

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces basic questions of philosophy and some of the persistent philosophical problems. Students will be introduced to some of the traditional solutions to those problems and be given a base to provide their own answers.

Course Learning Outcomes:

- CLO#1: Describe some of the persistent philosophical problems and some traditional attempts to solve them. (ILO: Communication)
- CLO#2: Explain the process of philosophizing, including analysis and synthesis.
- CLO#3: Develop and articulate a personal philosophical orientation.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PHL 102 - Ethics**4 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

Course Description: Develops the idea of humans as moral agents and provides critical consideration of various interpretations of the ideals and standards of moral conduct.

Course Learning Outcomes:

CLO#1: Explain the common terms and basic concepts related to the field of ethics. (ILO: Communication)

CLO#2: Explain the moral dimensions of everyday experience.

CLO#3: Present well-reasoned responses to ethical dilemmas.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PHL 103 - Critical Reasoning**4 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces the study of reasoning, including the ability to recognize, analyze, criticize, and construct the main types of argument and proof.

Course Learning Outcomes:

CLO#1: Identify and construct a logical argument.

CLO#2: Explain the relationship of logic to other fields in philosophy.

CLO#3: Identify and describe a variety of argument forms and fallacies.

CLO#4: Test deductive arguments for validity. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PHL 199 - Special Studies - Philosophy

Var. (1-3) Credit(s)

Prerequisite(s):

Varies by course.

Course Description: Explores major ideas and belief systems of the world and the extent to which individual values are shaped by cultures. Course is repeatable.

Course Learning Outcomes:

CLO#1: Varies based on course focus.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

Practical Nursing

PN 103 - Practical Nursing III

7 Credit(s)

Prerequisite(s):

PN 102, PN 102C

Corequisite(s):

PN 103C

Course Description: Continues the application of the nursing process and practical nursing scope specific to foundations of oncology, immune disorders, HIV, reproduction, maternity, pediatrics, orthopedics, neurological and renal/urinary nursing. In addition, leadership and trends in practical nursing are considered, and the NCLEX-PN application process is discussed. Within the organizing framework of the concepts of the individual, society, health and the nursing process, an integrated approach is used that considers pathophysiology, diagnostic testing, fluid and electrolyte balance, nutrition, pharmacology, psychosocial and spiritual needs and culture across the life span. Nursing care provided by the student in clinical situations (PN 103C) takes place primarily in long-term care settings with selected specialty experiences in the maternity and/or other units of local hospitals. Clinical is graded on a pass/no pass basis.

Course Learning Outcomes:

CLO#1: Research and describe the pathophysiology, medical management, and nursing interventions in caring for the client with cancer, immune disorders, and selected conditions of the orthopedic, neurological, renal and reproductive systems. (ILO: Information literacy)

- CLO#2: Use therapeutic communication skills in the development of therapeutic relationships with clients and families.
- CLO#3: Describe the appropriate care for the woman and family during an uncomplicated pregnancy.
- CLO#4: Describe appropriate nursing care of the mother with an uncomplicated labor, delivery, and postpartum period in a maternity department.
- CLO#5: Describe appropriate nursing care for the full-term, uncompromised neonate.
- CLO#6: Discuss/identify behaviors appropriate for developmental stages in infancy through toddler, and pharmacological considerations in caring for the pediatric client.
- CLO#7: Accurately calculate drug dosages and administer medications.
- CLO#8: Identify the practical nurse's scope of practice in collaboration with members of the health care team in data collection, contributing to the client plan of care, providing and evaluating client care.
- CLO#9: Describe trends for practical nursing in the future, considering societal changes, roles, and technical advances.
- CLO#10: Demonstrate increasing aptitude in recognizing, defining and functioning within the accepted roles of practical nursing, especially provider of care, member within the discipline of nursing and including the leadership role of the LPN in long-term care settings.
- CLO#11: Demonstrate competency and safety in the provision of nursing care and in technical skills; adhere to facility and nursing program policies, e.g. attendance, working as member of a team, responding to feedback unemotionally and non-defensively, acting ethically and within scope of practice, utilization of standard precautions throughout the program.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

LECTURE PORTION: A required state minimum of (70) and a standard RCC delivery of (77) lecture hours per term, not to exceed (84) hours per term.

PN 103C - Practical Nursing III Clinical**3 Credit(s)****Prerequisite(s):**

PN 102, PN 102C

Corequisite(s):

PN 103

Course Description: Continues the application of the nursing process and practical nursing scope specific to foundations of oncology, immune disorders, HIV, reproduction, maternity, pediatrics, orthopedics, neurological and renal/urinary nursing. In addition, leadership and trends in practical nursing are considered, and the NCLEX-PN application process is discussed. Within the organizing framework of the concepts of the individual, society, health and the nursing process, an integrated approach is used that considers pathophysiology, diagnostic testing, fluid and electrolyte balance, nutrition, pharmacology, psychosocial and spiritual needs and culture across the life span. Nursing care provided by the student in clinical situations (PN103C) takes place primarily in long-term care settings with selected specialty experiences in the maternity and/or other units of local hospitals. Clinical is graded on a pass/no pass basis.

Course Learning Outcomes:

- CLO#1: Research and describe the pathophysiology, medical management, and nursing interventions in caring for the client with cancer, immune disorders, and selected conditions of the orthopedic, neurological, renal and reproductive systems. (ILO: Information literacy)
- CLO#2: Use therapeutic communication skills in the development of therapeutic relationships with clients and families.
- CLO#3: Describe the appropriate care for the woman and family during an uncomplicated pregnancy.
- CLO#4: Describe appropriate nursing care of the mother with an uncomplicated labor, delivery, and postpartum period in a maternity department.
- CLO#5: Describe appropriate nursing care for the full-term, uncompromised neonate.
- CLO#6: Discuss/identify behaviors appropriate for developmental stages in infancy through toddler, and pharmacological considerations in caring for the pediatric client.
- CLO#7: Accurately calculate drug dosages and administer medications.
- CLO#8: Identify the practical nurse's scope of practice in collaboration with members of the health care team in data collection, contributing to the client plan of care, providing and evaluating client care.
- CLO#9: Describe trends for practical nursing in the future, considering societal changes, roles, and technical advances.
- CLO#10: Demonstrate increasing aptitude in recognizing, defining and functioning within the accepted roles of practical nursing, especially provider of care, member within the discipline of nursing and including the leadership role of the LPN in long-term care settings.
- CLO#11: Demonstrate competency and safety in the provision of nursing care and in technical skills; adhere to facility and nursing program policies, e.g. attendance, working as member of a team, responding to feedback unemotionally and non-defensively, acting ethically and within scope of practice, utilization of standard precautions throughout the program.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

CLINICAL PORTION: A required state minimum of (90) and a standard RCC delivery of (99) hours per term, not to exceed (132) hours per term.

PN 104C - PN Leadership Clinical

2 Credit(s)

Prerequisite(s):

PN 103, PN 103C

Course Description: Facilitates the transitional process from student practical nurse to beginning graduate practical nurse. By completing an individualized, concentrated clinical experience in the long-term care or other assigned setting, students will be able to focus on leadership skills demonstrating the ability to implement nursing actions that reinforce previous practical nursing didactic content within the organizing framework of the concepts of the individual, society, health and the nursing process. Nursing care provided by the student will take

place primarily in the long-term care or other assigned setting, working with a clinical teaching associate (CTA). Clinical is graded on a pass/no pass basis.

Course does not transfer.

Course Learning Outcomes:

- CLO#1: Demonstrate nursing actions that reinforce previous practical nursing didactic content and knowledge.
- CLO#2: Identify mental health, psychosocial, and/or physiological issues relevant to assigned clients and demonstrate appropriate nursing interventions specific to those clients.
- CLO#3: Apply principles of organization, prioritization, and ethical decision making while acting as a provider of care and while participating in the coordination of client care.
- CLO#4: Function as a member within the profession of nursing integrating such values as accountability, integrity, and self-motivation.
- CLO#5: Differentiate between the roles and responsibilities of the RN, LPN, and CNA in the acute care, long term or community care settings.
- CLO#6: Demonstrate competency and safety in the provision of nursing care and in technical skills; adhere to facility and nursing program policies, e.g. attendance, responding to feedback unemotionally and non-defensively, acting ethically within scope of practice and utilization of standard precautions.
- CLO#7: Accepts feedback, demonstrates conflict resolution, and identifies personal strengths and ongoing improvement needs through self-evaluation.
- CLO#8: Respects the privacy, including confidentiality of health care information, and dignity of individuals, families and groups.
- CLO#9: Recognizes and reports situations in which assessment and intervention by RN is necessary, seeks consultation.
- CLO#10: Uses information technology effectively and appropriately to search for new information, monitor care, report change, and document.
- CLO#11: Applies concepts of resource utilization to practice cost-effective nursing care, including managing time of self and others.
- CLO#12: Applies management skills to direct and supervise care provided by assistive personnel.
- CLO#13: Questions orders which are not clear, perceived as unsafe, or outside of the LPN scope. (ILO: Critical Thinking)

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) clinical/lab hours per term, not to exceed (72) hours per term, post summer session.

Pharmacy Technician

PRX 101 - Pharmacy Technician I

4 Credit(s)

Course Description: Introduces the basic concepts of the practice of pharmacy and the pharmacy technician's role, including the history of pharmacy, the types of pharmacy settings, the language of pharmacy and drug classifications, the types and use of technology in the pharmacy

setting, and basic concepts of health insurance billing as they relate to the pharmacy technician's role.

Course Learning Outcomes:

- CLO#1: Describe the origin and evolution of the practice of pharmacy.
- CLO#2: Describe the roles and responsibilities of the pharmacy technician in the range of pharmacy settings where they are employed.
- CLO#3: Use pharmaceutical terms and the drug classification system appropriately and accurately in the pharmacy setting. (ILO: Critical Thinking)
- CLO#4: Describe the types and uses of technology utilized in the pharmacy setting.
- CLO#5: Apply the concepts and practices of health insurance billing appropriately in the pharmacy setting.

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PRX 102 - Pharmacy Technician II

4 Credit(s)

Prerequisite(s):

PRX 101

Course Description: Builds on material learned in Pharmacy Technician I. Focus is on the pharmacy technician's role in purchasing and inventory control, the behaviors expected of a professional pharmacy technician, the process of preparing, labeling, packaging, storing, and distributing medication, and the purpose, reason, and process for compounded and sterile medications.

Course Learning Outcomes:

- CLO#1: Determine and appropriately use the specific purchasing systems and methods of purchasing and inventory control used in pharmacies.
- CLO#2: Behave in the manner dictated by and consistent with the expectations of a professional pharmacy technician.
- CLO#3: Demonstrate understanding of the process of preparing, labeling, packaging, storing, and distributing medication. (ILO: Information Literacy)
- CLO#4: Explain the purpose, reason and process for compounded and sterile medications.

Typical Required and Recommended Equipment and Materials: None.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

Political Science

PS 199 - Special Studies - Political Science

Var. (1-3) Credit(s)

Prerequisite(s):

May vary depending on subject offerings.

Course Description: Selected topics of study in political science are offered on demand through workshops, seminars, lecture, lab, and/or independent study format. This course is designed to:

Provide students with opportunities to explore in greater depth specific topics in the field of political science which are presented in the introductory political science courses.

Provide other RCC departments with a variety of subject offerings designed to address problems, issues and concerns which are unique to their specific discipline.

Provide flexibility in meeting elective political science credits by allowing and encouraging students to research areas of political science not currently taught in the political science curriculum.

Course is repeatable.

Course Learning Outcomes:

CLO#1: Individual course outcomes and ILOs will be developed at the time the proposed class is designed. Typical assessments will include but are not limited to homework exercises, discussion, quizzes, examinations, course discussions, and research papers.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

PS 201 - US Gov Institutions and Policy

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Provides a general investigation of the socio-political processes in the United States and includes, but is not limited to, the following: an historical overview of American democracy and political institutions, the Constitution and the road to ratification, federalism and domestic and foreign policy.

Course Learning Outcomes:

CLO#1: Trace the development of American democratic institutions and political culture.

CLO#2: Explain the U.S. Constitution: historical antecedents and contemporary perspectives.

CLO#3: Identify branches of government, the bureaucracy and the formation of federal policy.

CLO#4: Utilize critical thinking skills to explain strengths and weaknesses in the U.S. political institutions and policy. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PS 202 - US Gov Ideologies and Engagement

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Examines the concepts and principles of the American political system including political ideologies, civil liberties, and the role of interest groups, media and public participation in campaigns and elections.

Course Learning Outcomes:

CLO#1: Trace the development of American ideologies and political culture.

CLO#2: Explain the U.S. Constitution: historical antecedents and contemporary perspectives.

CLO#3: Describe the development of political parties, campaigns, and the role of the media and interest groups in the political process.

CLO#4: Utilize critical thinking skills to explain strengths and weaknesses in the U.S. political system. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PS 203 - State and Local Government

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Surveys the political process at the state and local level with an emphasis on Oregon law, constitution, and current local political issues.

Course Learning Outcomes:

CLO#1: Explain state/local political and policy making processes.

CLO#2: Describe legislative process/procedures at the state and local level.

CLO#3: Describe the influence that political participation, organized interest groups, and the media have on state and local government.

CLO#4: Explain the history and capacity of state and local government to solve problems and provide needed services. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PS 280 - CWE - Political Science

Var. (1-3) Credit(s)

Prerequisite(s):

Prior arrangements with CWE Instructor or Department Chair.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their program. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, students should complete this course within the last two terms of their certificate or degree. Course is repeatable.

Course Learning Outcomes:

CLO#1: Demonstrate the ability to successfully complete the interview process.

CLO#2: Demonstrate the importance of completing forms accurately and meeting deadlines.
(ILO: Communication)

CLO#3: Demonstrate the importance of an acceptable work ethic as described in the CWE Work Ethic and Professional Presence Guidelines and student's learning objectives.

CLO#4: Demonstrate good work performance (student's learning objectives).

CLO#5: Apply program knowledge, theories, principles, methods and technology. Gain new knowledge, skills, and experience while on the job.

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

Production

PRD 101 - Intro to Podcasting - Radio

3 Credit(s)

Course Description: Introduces students to the fundamentals of podcasting and radio production by integrating storytelling, audio editing, and broadcasting principles. Exercises include an introduction to the use of digital audio workstations (DAWs) such as Audacity and Adobe® Audition, etc. Concepts in scriptwriting, vocal performance, interview techniques, sound design, and distribution strategies are covered. Additional lab hours required. The intent of this class is to provide a strong foundation in audio content creation, an understanding of industry standards. Mono, Stereo, and Dolby Atmos audio production and hands-on experience in producing engaging audio content. These experiences shall provide a working ability in podcasting and radio for students interested in broadcasting, journalism, media production, or personal enrichment.

Course Learning Outcomes:

- CLO#1: Demonstrate storytelling and audio communication skills by scripting, recording, and editing engaging podcast and radio content for diverse audiences. (ILO: Communication)
- CLO#2: Evaluate various audio formats, interview techniques, and production styles to create compelling and well-structured content that conveys the intended message. (ILO: Critical Thinking)
- CLO#3: Incorporate diverse perspectives and inclusive storytelling practices in podcasting and radio production to reflect a variety of voices and experiences. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#4: Apply fundamental audio recording, editing, and production techniques using digital audio workstations (DAWs) and recording equipment to create high-quality podcast and radio content.

Typical Required and Recommended Equipment and Materials: Access to the Internet and a personal computer with Adobe Audition/or other recommended DAW (or access to the college computer labs), Portable USB drives, and USB microphone.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

Psychology

PSY 101 - Psychology of Human Relations

3 Credit(s)

Course Description: Focuses on the practical application of psychology in everyday situations. Topics include self-concept, emotions, needs, values, healthy relationships, interpersonal communications, and behavioral change. The course provides students an experiential opportunity to develop an understanding and awareness of themselves and others, and a variety of practical tools for the development of interpersonal skills. Emphasis is on becoming a more effective member of the human community.

Course Learning Outcomes:

- CLO#1: Apply knowledge and experience critically so as to realize an informed sense of self, gender identity, values, family and community.

- CLO#2: Identify qualities and skills necessary to establish meaningful interpersonal relationships.
- CLO#3: Identify a variety of effective communication techniques and utilize them in working effectively and cooperatively with others.
- CLO#4: Identify internalized biases and microaggressions, explain their impact and identify equitable alternatives. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

PSY 119 - Psychology of Personal Growth

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Provides an opportunity for students to deepen and broaden their knowledge of theoretical psychology while gaining insights into their own behaviors and the behavior of others. Consists of small and large group exercises and individual writing assignments, augmented by lecture.

Course Learning Outcomes:

- CLO#1: Articulate a personalized philosophy of life.
- CLO#2: Articulate personal reasons for choosing a specific career path, including the job values associated with the chosen path.
- CLO#3: Describe the relationship between physical and emotional wellness.
- CLO#4: Discuss the importance of intimacy and ways in which it can be achieved in our relationships. (ILO: Critical Thinking)
- CLO#5: Describe the stages of grief and appropriate strategies for dealing with grief.
- CLO#6: Reflect on and examine existential questions involved in the search for identity.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PSY 199 - Special Studies - Psychology

Var. (1-3) Credit(s)

Prerequisite(s):

May vary depending on subject offerings.

Course Description: Selected topics of study in psychology are offered on demand through workshops, seminars, lecture, lab, and/or independent study formats. This course is designed to:

Provide students to explore in greater depth specific topics in the field of psychology which are introduced in the general psychology and human relations courses.

Provide other RCC departments with a variety of subject offerings designed to address problems, issues and concerns which are unique to their specific discipline.

Provide flexibility in meeting elective psychology credits by allowing and encouraging students to research areas of psychology not currently taught in the psychology curriculum.

Course is repeatable.

Course Learning Outcomes:

CLO#1: Individual course outcomes and ILOs will be developed at the time the proposed class is designed.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

PER CREDIT: assigned required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

PSY 201Z - Introduction to Psychology I

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduction to the science and application of psychology. Emphasis will be placed on psychological concepts, theories, and principles related to: Research Methods, Behavioral Neuroscience, Consciousness, Sensation/Perception, Learning, Memory, Thinking and Intelligence, and related topics.

Course Learning Outcomes:

CLO#1: Identify psychological, biological, and other factors that influence behavior and mental processes. (ILO: Critical Thinking)

CLO#2: Apply key theories and concepts in psychology

CLO#3: Evaluate claims about psychological phenomena and human behavior through the use of empirical evidence and knowledge of the scientific method.

CLO#4: Demonstrate knowledge about the ways psychological science and practices are contextualized by ethical standards and sociocultural factors.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PSY 202Z - Introduction to Psychology II

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Recommended Prerequisite(s):

PSY 201Z

Course Description: Introduction to the science and application of psychology. Emphasis will be placed on psychological concepts, theories, and principles related to: Personality, Social Psychology, Health and Well-Being, Motivation and Emotion, Disorders, Therapies, Lifespan Development, and related topics.

Course Learning Outcomes:

CLO#1: Identify psychological, social, cultural, and biological factors that influence behavior and mental processes.

CLO#2: Apply key theories and concepts in psychology. (ILO: Critical Thinking)

CLO#3: Evaluate claims about psychological phenomena and human behavior through the use of empirical evidence.

CLO#4: Demonstrate knowledge about the ways psychological science and practices are contextualized by ethical standards and sociocultural factors.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PSY 215 - Lifespan Human Development

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Recommended Prerequisite(s): PSY 201Z or PSY 202Z

Course Description: Provides an overview of human development explored from a variety of perspectives. The primary objective is to examine biological, socio-cultural, and psychological factors that influence each stage of the life cycle, from conception until death. Exploration focuses on life tasks and societal expectations, physical and cognitive changes, and personality development across the lifespan. Both normative and non-normative pathways are considered.

The course provides a bridge between biological science and social science and is an essential component for students entering the fields of nursing and human services.

Course Learning Outcomes:

- CLO#1: Relate the major theoretical perspectives of psychology to the human developmental process.
- CLO#2: Delineate the research methods employed by developmental psychologists. (ILO: Critical Thinking)
- CLO#3: Describe the relative contributions of genetics and environment to the developmental process, including the reciprocal influence of social interaction and the developmental process.
- CLO#4: Identify significant physical and cognitive processes that characterize development in each stage of the life cycle, from prenatal to death.
- CLO#5: Describe the normative development of and changes in personality, social interactions, and cultural demands associated with each stage of the life cycle.
- CLO#6: Identify the non-normative events and influences that might impact development throughout the lifespan.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PSY 219 - Introduction to Abnormal Psychology

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

PSY 201Z

Corequisite(s):

PSY 202Z

Course Description: Introduces the psychology of abnormal behavior and its possible causes, along with an examination of the history and modern practice of mental health treatment, including legal issues such as insanity and civil commitment. Students will explore the nature of abnormality and examine social and cultural factors as well as specific disturbances in behavior, mood, thinking, and perception which have defined abnormality, past and present. Special problems of research with the clinical population and major theoretical models for assessment, diagnosis and treatment will also be studied. Specific topic areas include disorders of childhood and adolescence, anxiety, obsessive-compulsive and related disorders, disorders of trauma and stress, disorders featuring somatic symptoms, eating disorders, schizophrenia, and personality disorders.

Course Learning Outcomes:

- CLO#1: Define abnormal behavior according to a variety of major theories.

CLO#2: Describe common methods of assessment and diagnosis, including the classification scheme of the DSM 5.

CLO#3: Identify behaviors and conditions that meet the diagnostic criteria for a variety of psychiatric disorders; recognize various manifestations of these symptoms. (ILO: Information Literacy)

CLO#4: Identify strengths and limitations of a variety of treatment methods for psychiatric conditions, including historical treatments as well as those currently in practice.

CLO#5: Identify current directions in research on pathology, assessment, or treatment of psychiatric disorders.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PSY 228 - Introduction to Positive Psychology

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces students to theories and research in psychology that examine topics relevant to the nature of happiness and psychological well-being. Psychology has focused much of its efforts on the treatment of human problems. To balance this paradigm, positive psychology calls for research on what promotes human fulfillment and human potential. The most basic assumption is that human goodness and excellence are as important as disorder and human flaw. Topics covered in this course will include the nature, history and future of positive psychology, research methods, authenticity, joy, happiness, positive thinking, emotional intelligence, intuition, character strengths, core values, virtues, talents, health and social justice.

Course Learning Outcomes:

CLO#1: Describe the science of positive psychology, including its philosophy, approach, research, paradigm shift and future.

CLO#2: Reflect on the concepts of happiness, character traits, values and virtues, including their connection to well-being.

CLO#3: Demonstrate positive thinking and emotional intelligence applied to everyday life situations.

CLO#4: Explain the relationship between physical, mental, emotional, social and spiritual dimensions of humanness in promoting health and wellness.

CLO#5: Apply positive psychology to problem solving and social justice causes. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

PSY 231 - Human Sexuality

3 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces the student to the many physiological, psychological, sociological, and cultural influences on sexual behavior. The course provides the foundation in both scientific and pragmatic terms to further one's understanding and acceptance of sexuality within the context and environment in which one lives. Emphasis is placed on knowledge, self-acceptance and tolerance of others' sexual expression. There will also be a study of atypical sexual behavior, deviance, aggression and victimization.

Course Learning Outcomes:

- CLO#1: Define the problems and methodology of research in human sexuality.
- CLO#2: Describe the role of gender in the human experience and the development of gender roles. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#3: Explain the biological basis of sexual behavior, including human sexual anatomy and physiology, conception, contraception and birth control, sexually transmitted infections and sexual dysfunction.
- CLO#4: Identify the psychological and cultural dimensions of human sexual behavior in relation to conception, contraception, sexually transmitted infections, and sexual dysfunction.
- CLO#5: Discuss the roles of communication about sex and sexual decision-making in intimate relationships.
- CLO#6: Define and describe atypical behavior, including sexual harassment, coercion and victimization.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

PSY 280 - CWE - Psychology

Var. (1-3) Credit(s)

Prerequisite(s):

Prior arrangements with CWE Instructor or Department Chair.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their program. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, students should complete this course within the last two terms of a certificate or degree. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate the importance of completing forms accurately and meeting deadlines.
- CLO#2: Demonstrate the importance of an acceptable work ethic as described in the CWE Work Ethic and Professional Presence Guidelines and student's learning objectives.
- CLO#3: Demonstrate good work performance (student's learning objectives).
- CLO#4: Apply program knowledge, theories, principles, methods and technology. Gain new knowledge, skills, and experience while on the job. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: None

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

Religion

REL 201 - World Religions

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Surveys major religions of the world, comparing histories, differences, and similarities. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree (AAOT).

Course Learning Outcomes:

- CLO#1: Describe other ways of viewing "reality" and explain the degree to which these world views are culturally derived. (ILO: Communication)
- CLO#2: Translate ideas from one culture into existing or potential applications in our own primarily Judeo-Christian path.
- CLO#3: Explain specific terms from each tradition, particularly those which have found their way into our culture.
- CLO#4: Explain the most essential ideas from each tradition.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

REL 243 - Nature - Religion - and Ecology

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Explores how different religious traditions and the cultures influenced by them view nature and the place of humankind within the natural environment. Native, Asian, and Western traditions are examined, as are contemporary eco-spiritual thinkers and movements. Class discussion for the students to apply the material in current social and personal contexts will be an integral part of the course. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

- CLO#1: Describe other ways of viewing ecological "reality" and explain the degree to which these world views are culturally derived. (ILO: Communication)
- CLO#2: Translate ideas from one culture into existing or potential applications in our own primarily Judeo-Christian path.
- CLO#3: Explain the relation of religions to other academic subjects such as art, science, history, and literature.
- CLO#4: Explain the most essential ideas from each tradition.
- CLO#5: Determine which religious concepts and practices are particularly well suited to peoples of certain climatic and geographical situations.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

Sociology

SOC 199 - Special Studies - Sociology

Var. (1-3) Credit(s)

Prerequisite(s):

May vary depending on subject offerings.

Course Description: Selected topics of study in sociology are offered on demand through workshops, seminars, lecture, lab, and/or independent study format. This course is designed to:

Provide students with opportunities to explore in greater depth specific topics in the field of sociology which are presented in the introductory sociology courses.

Provide other RCC departments with a variety of subject offerings designed to address problems, issues and concerns which are unique to their specific discipline.

Provide flexibility in meeting elective sociology credits by allowing and encouraging students to research areas of sociology not currently taught in the sociology curriculum.

Course is repeatable.

Course Learning Outcomes:

CLO#1: Individual course outcomes and ILOs will be developed at the time the proposed class is designed.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

SOC 204Z - Introduction to Sociology

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces the central concepts, theories, and methods that define the sociological approach to investigating the social forces that shape our lives. Topics may include social structure, culture, socialization, race, class, gender, sexuality, and inequality. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

CLO#1: Describe the central concepts, theories, and methods that define sociological approaches to social scientific inquiry.

CLO#2: Analyze social life using sociological concepts and theories.

CLO#3: Explain how the sociological imagination interrelates different levels of analysis such as social structures and individuals.

CLO#4: Identify how social factors contribute to inequalities in society. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

CLO#5: Explain the role of theory and evidence in building sociological knowledge.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SOC 205Z - Social Change and Institutions

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Sociological analysis of social institutions, such as family, education, health care, the economy, and the state. Includes an examination of connections among institutions and their impact on patterns of inequality and individual outcomes. Examines the forces and dynamics behind social change, such as social movements, culture, economic forces, technologies, and the environment. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

CLO#1: Discuss the history of key social institutions.

CLO#2: Analyze major social institutions and change using sociological concepts, theory, and research.

CLO#3: Describe how the structure of institutions shapes patterns of social inequality.

CLO#4: Discuss diversity of experiences that individuals have with institutions based on group membership, such as race and ethnicity, gender, sexuality, and social class. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

CLO#5: Describe how and why societies change over time.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SOC 206Z - Social Problems

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Applies the sociological perspective to the study of social problems, including their social construction, causes, and consequences. Explores the complexities surrounding their solutions, such as how solutions are socially constructed and policy proposals from sociologists and social movements. Topics may include poverty, discrimination, interpersonal violence, crime, addiction, ecological crises, war/global conflict, and health inequality. Course formerly offered as SOC225.

Course Learning Outcomes:

CLO#1: Describe the ways in which social problems are defined and constructed.

CLO#2: Apply the sociological perspective to identify and analyze social problems.

CLO#3: Distinguish between individual and structural explanations of social problems.

CLO#4: Assess the effects of social problems using empirical evidence.

CLO#5: Examine the structural, institutional, and cultural roots of social problems.

CLO#6: Assess solutions to address social problems. (ILO: Critical Thinking)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SOC 211 - Social Deviance and Social Control**3 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

Recommended Prerequisite(s):

SOC 204Z

Course Description: Examines deviance and social control from a sociological perspective, demonstrating that deviance is relative to cultural norms. Includes how deviant identities and subcultures are formed, and types of deviance that have useful functions in society. Could include topics such as crime and punishment, white-collar crime, family violence, sexual and gender variance, drug subcultures, cults and social activism leading to positive social change.

Course Learning Outcomes:

CLO#1: Apply a sociological perspective to understanding deviance, including the relativity of deviance to cultural norms and the crucial difference between explaining and excusing deviant behavior that is detrimental to society. (ILO: Critical Thinking)

CLO#2: Identify theories in the field of social deviance and control.

CLO#3: Explain and analyze the distinction between deviant acts and deviant identity (master status).

CLO#4: Explain trends in crime rates and solutions to problems of crime and violence.

CLO#5: Explain types of deviance that have a positive impact on society.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

SOC 213 - Race and Ethnicity in the US**4 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

Course Description: A sociological examination of the various social, political, historical, economic and legal forces affecting diverse racial and ethnic groups in the U.S. This includes an analysis of American history, families, housing, education, employment and immigration patterns and racial and ethnic interactions. Includes a focus on the intersection of race, gender and social

class and on social movements that have worked to counter inequalities. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

- CLO#1: Identify and apply sociological concepts used to describe race, ethnicity and racism, including settler colonialism.
- CLO#2: Employ sociological explanations, based on empirical evidence, for racial patterns.
- CLO#3: Analyze the impact of historical precedents on racial and ethnic groups and Indigenous nations today.
- CLO#4: Identify key racial and ethnic issues and current social movements in the contemporary United States.
- CLO#5: Analyze how systemic racism and ethnocentrism impact the life chances of individuals. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SOC 218 - Sociology of Gender

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces sociological perspectives on gender. Central themes include the social construction of gender, socialization, changes and continuities in gender norms and identities, the body, globalization and the connections between gender, power and inequality. The course emphasizes the ways in which gender intersects with race, social class and sexual orientation. The focus is primarily on U.S. and Western societies, with some cross-cultural material. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

- CLO#1: Explain how gender shapes individual experiences, cultures, and social interactions.
- CLO#2: Explain how gendered behavior, identities and bodies are socially constructed.
- CLO#3: Explain how social institutions are gendered, including how institutionalized inequalities affect cisgender and transgender people.
- CLO#4: Demonstrate the ability to apply intersectionality in the study of gender. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SOC 221 - Juvenile Delinquency

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: This course presents a philosophical, historical, and practical survey of juvenile justice administration in the United States. In the context of an interdisciplinary framework, theories, factors, and characteristics of delinquency will be presented and treatment and delinquency prevention programs will be surveyed.

Course Learning Outcomes:

CLO#1: Describe concepts, structures, and characteristics of the juvenile justice system and its components. (ILO: Communication)

CLO#2: Describe or define distinctions between the juvenile and adult justice system and know the roles of police, courts, and corrections in responding to and preventing delinquency. (ILO: Communication)

CLO#3: Establish the relationship between theories of delinquency causation and programs and policy developed to prevent delinquency.

CLO#4: Explain historical and philosophical influences on the development of juvenile justice administration in the United States.

CLO#5: Examine the basic values that are the foundation of the juvenile justice system and appreciate how changing values in society influence the justice system's response to juvenile crime.

CLO#6: Research applications of Oregon Revised Statutes that apply to delinquent behavior and punishment of youths.

Typical Required and Recommended Equipment and Materials: No special equipment or materials required

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SOC 228 - Environment and Society

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Examines the relationship between societies and the environment including how cultural, social, economic and political forces have impacted the natural environment. Explores the causes and consequences of topics such as settler colonialism, population growth,

consumerism, climate change, pollution and environmental racism and classism. A focus will be placed on the study of public policies and cultural components that advance sustainability, including Indigenous Traditional Ecological Knowledge. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

- CLO#1: Identify how political, economic and other social institutions affect the health of the environment and of humans.
- CLO#2: Discuss the history and development of the ideologies that have led to environmental domination as well as to concern for the environment including Indigenous cultures. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#3: Identify how environmental issues affect social groups in varying ways, especially focusing on class, race, ethnicity and gender inequalities.
- CLO#4: Identify which social and cultural contexts have been found to produce sustainable outcomes.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SOC 230 - Aging and Society

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces students to the field of gerontology and explores the relationships between the aging individual and society.

Course Learning Outcomes:

- CLO#1: Discuss the advantages and disadvantages of longitudinal and cross-sectional methods of studying aging.
- CLO#2: Describe biological changes that typically occur with aging.
- CLO#3: Describe how gender and ethnicity affect health status in later life and how family roles can evolve. (ILO: Equity, Diversity, Inclusion and Global Consciousness)
- CLO#4: Describe the major findings from research on personality development over the life span and discuss social theories of aging.
- CLO#5: Describe how demographic, health, sociological, and technological changes will affect families and society in the future.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SOC 235 - Chicano-a and Latino-a US History

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Examines the diversity that resides within the Chicano, Mexicano, Latino, Hispanic and Caribbean cultural experience in the Americas, beginning from pre-Columbian times to the present. Covers pre-Columbian heritage, Spanish colonization, American conquest in the Mexican-American War and the Spanish American War, the Mexicans' role in American labor, Bracero Program, and the Chicano Movement. The class will provide a framework for understanding the ways in which distinctive social and cultural patterns arose, bringing awareness of contemporary expressions of identity and their historical origins. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Cross-listed with HST 259.

Course Learning Outcomes:

- CLO#1: Identify and discuss significant events that shaped the history of the Chicana/o and Latina/o experience in the U.S.
- CLO#2: Evaluate the difference between personal opinions and sociological explanations through the use of scientific research and the sociological imagination. (ILO: Critical Thinking)
- CLO#3: Examine the historical and social forces which create and define contemporary Latina/o social identity, including common stereotypes and misinformed conceptualizations found in both majority and minority cultures.
- CLO#4: Illustrate acquired knowledge regarding the social histories and cultures of Chicana/o and Latina/o peoples, including the cultural foundation and traditions of Spain and the Americas, and their influence on the experiences of Chicana/o and Latina/o peoples as residents and citizens of the United States.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SOC 237 - Comm and Relationships and Tech

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces students to the personal and social perspectives of communicating through technology and focuses on the implications of computer-mediated communication. Current themes and theories focusing on the use of technology to communicate

within relationships and to gain access to resources such as health care and education are introduced and applied. A variety of topics will be explored, including online relationships, social interactions, the workplace, web-based instruction, impression management, therapy and health care. Concepts such as ethics, confidentiality, accessibility, identity, trust, and global implications will be explored.

Course Learning Outcomes:

- CLO#1: Explain and analyze communication processes utilized on the internet.
- CLO#2: Describe current communication issues that are changing the way in which we live and interact with one another nationally and globally.
- CLO#3: Identify critical research on computer mediated communication (CMC), current trends and issues and apply this research to what students are observing in their everyday lives.
- CLO#4: Apply a cross-cultural and global perspective of the diversity of CMC contexts through the reading and critical analysis of CMC research, case studies, and popular accounts. (ILO: Equity, Diversity, Inclusion and Global Consciousness)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SOC 243 - Drugs - Crime - Addiction

4 Credit(s)

Corequisite(s):

WR 115 or designated placement

WR 115Q as required

Recommended Prerequisite(s):

COMM 111Z and WR 121Z

Course Description: This course will introduce students to the dynamics of drug and alcohol addiction, the social and legal issues of drug abuse, as well as examine the political considerations behind contemporary drug enforcement policy. It will also explore the historical origins of the illegal drug trade. Drugs - Crime - Addiction is a college-level transfer course and is a core requirement for students majoring in Human Services.

Course Learning Outcomes:

- CLO#1: Identify and describe terms, concepts and related items used in the study of substance use, abuse, treatment, prevention and policy development. (ILO: Communication)
- CLO#2: Utilize sources of information and research related to prevention, treatment, policy options and enforcement strategies related to substance abuse.
- CLO#3: Debate positions on key issues in the continuing controversy over public substance abuse policy in the United States. (ILO: Critical Thinking)

- CLO#4: Explain patterns of substance abuse in relation to individuals' life cycle to include elements of each phase or stage of abuse.
- CLO#5: Describe how body organs, tissues, and systems are impacted by drug use and abuse/addiction.
- CLO#6: Evaluate primary and secondary approaches to substance abuse prevention as viewed in the context of strategies applied by social institutions, the criminal courts, and in various correctional interventions.
- CLO#7: Outline the historical, social, economic, and policy developments along with issues associated with the abuse of alcohol and other substances in the United States.
- CLO#8: Delineate the social and economic contexts, and organization of systems behind the worldwide distribution of controlled substances.
- CLO#9: Outline key provisions of federal and state controlled substances legislation, including regulatory provisions, used in controlling the cultivation, manufacture or distribution of abused substance.
- CLO#10: Apply knowledge and understanding about the criminal justice system's response to substance use, abuse, and related problems including investigative strategies and policies.
- CLO#11: Analyze pharmacological aspects of drug use from ingestion to secretion.
- CLO#12: Depict resources and include description of principles and practices along with risk and protective factors for the prevention, treatment and response to substance abuse problem in a community.

Typical Required and Recommended Equipment and Materials: No special equipment or materials required

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SOC 244 - Introduction to Criminology

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Offers a sociological perspective on criminality by examining how a society's social structure shapes both crime and the criminal justice system. Sociological theories that explain crime, including crime-reduction strategies and patterns of victimization, will be discussed. Special attention will be given to how crime and victimization are rooted in the social and physical characteristics of communities, social relationships and interactions, and social inequalities of race and ethnicity, poverty and social class, and gender. Through case studies and contemporary examples, students will gain an understanding of the complex relationship between society, law, and crime.

Course Learning Outcomes:

CLO#1: Apply sociological theories that explain crime and deviant behavior.

CLO#2: Analyze the role of social inequalities-such as race, class, gender, and ethnicity-in shaping patterns of criminal behavior, victimization, and the administration of justice.

(ILO: Critical Thinking)

CLO#3: Describe research methods used to evaluate crime measurement tools and patterns of criminal behavior, with special attention to victims.

CLO#4: Explain strategies for effective policy and crime control based on sociological theories.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SOC 280 - CWE -Sociology

Var. (1-12) Credit(s)

Prerequisite(s):

Prior arrangements with CWE Instructor or Department Chair.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their program. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, students should complete this course within the last two terms of their certificate or degree. Course is repeatable.

Course Learning Outcomes:

CLO#1: Demonstrate the ability to successfully complete the interview process.

CLO#2: Demonstrate the importance of completing forms accurately and meeting deadlines.

(ILO: Communication)

CLO#3: Demonstrate the importance of an acceptable work ethic as described in the CWE Work Ethic and Professional Presence Guidelines and student's learning objectives.

CLO#4: Demonstrate good work performance (student's learning objectives).

CLO#5: Demonstrate a professional presence as described in the CWE Work Ethic and Professional Presence Guidelines while on the job.

CLO#6: Apply program knowledge, theories, principles, methods and technology. Gain new knowledge, skills, and experience while on the job.

CLO#7: Make contacts which will help in obtaining employment.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

Spanish

SPAN 101 - First Year Spanish I

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: Introduces basic skills in Spanish in speaking, writing, reading, and aural comprehension to the Novice Mid level. Special attention is given to developing cultural awareness. The sequence enables students to reach at least Novice High proficiency as defined by the guidelines of the American Council on the Teaching of Foreign Languages (ACTFL). SPAN101, SPAN 102, SPAN 103 must be taken in sequence. Courses are not suitable for heritage speakers.

Course Learning Outcomes:

CLO#1: Speak clearly about basic life skills topics with those accustomed to dealing with non-native speakers.

CLO#2: Demonstrate culturally appropriate behavior.

CLO#3: Use learned vocabulary words, phrases, and expressions to describe and express important ideas on topics covered in the week-by-week outline attached here, both orally and in writing. (ILO: Communication)

CLO#4: Comprehend and explain important ideas and some details from simple authentic audio and video sources.

CLO#5: Explain important ideas and basic details in face-to-face interactions when speech is limited and basic.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SPAN 102 - First Year Spanish II

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement,

WR 115Q as required,

SPAN 101 or equivalent Spanish language experience

Course Description: Introduces basic skills in Spanish in speaking, writing, reading, and aural comprehension to the Novice High level. Special attention is given to developing cultural awareness. The sequence enables students to reach at least Novice High proficiency as defined by the guidelines of the American Council on the Teaching of Foreign Languages (ACTFL). SPAN 101, SPAN102, SPAN 103 must be taken in sequence. Courses are not suitable for heritage speakers.

Course Learning Outcomes:

- CLO#1: Speak clearly about basic life skills topics with those accustomed to dealing with non-native speakers.
- CLO#2: Demonstrate culturally appropriate behavior.
- CLO#3: Use learned vocabulary words, phrases, and expressions to describe and express important ideas on topics covered in the week-by-week outline attached here, both orally and in writing. (ILO: Communication)
- CLO#4: Comprehend and explain important ideas and basic details from simple authentic audio and video sources.
- CLO#5: Explain important ideas and some details in face-to-face interactions when speech is limited and basic.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SPAN 103 - First Year Spanish III**4 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

SPAN 102 or equivalent Spanish language experience

Course Description: Introduces basic skills in Spanish in speaking, writing, reading, and aural comprehension to the Intermediate Low level. Special attention is given to developing cultural awareness. The sequence enables students to reach at least Novice High proficiency as defined by the guidelines of the American Council on the Teaching of Foreign Languages (ACTFL). SPAN 101, SPAN 102, SPAN103 must be taken in sequence. Courses are not suitable for heritage speakers.

Course Learning Outcomes:

- CLO#1: Speak clearly about basic life skills topics with those accustomed to dealing with non-native speakers.
- CLO#2: Demonstrate culturally appropriate behavior.
- CLO#3: Use learned vocabulary words, phrases, and expressions to describe and express important ideas on topics covered in the week-by-week outline attached here, both orally and in writing. (ILO: Communication)
- CLO#4: Comprehend and explain important ideas and basic details from simple authentic audio and video sources.
- CLO#5: Explain important ideas and some details in face-to-face interactions when speech is limited and basic.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SPAN 201 - Second Year Spanish I**4 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

SPAN 103 or two years of high school Spanish or equivalent Spanish language experience

Course Description: This second-year sequence reinforces, synthesizes, and builds on the basic skills acquired in first-year Spanish in speaking, writing, reading, and listening comprehension to the Intermediate Mid level. Special attention is given to developing cultural awareness. Students are required to communicate in Spanish. Materials include literary and cultural texts, audio exercises, films, music, and contextualized exercises in grammar. The sequence enables students to read at least Intermediate High proficiency as defined by the guidelines of the ACTFL (American Council on the Teaching of Foreign Languages). Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

- CLO#1: Speak clearly in Spanish about basic topics to those accustomed to dealing with non-native speakers.
- CLO#2: Demonstrate culturally appropriate behavior including greetings, introductions, leave-takings, and formal vs informal styles of address.
- CLO#3: Use learned vocabulary words, phrases, and expressions on a variety of familiar topics, and reiterate input in their own sentences.
- CLO#4: Express themselves orally and in writing, across a range of tenses and moods including present, preterit, imperfect, future, imperative, and some basic subjunctive, although with some error and reformulations. (ILO: Communication)
- CLO#5: Comprehend and explain important ideas and the details from authentic audio and video sources.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SPAN 202 - Second Year Spanish II**4 Credit(s)****Prerequisite(s):**

WR 115 or designated placement

WR 115Q as required

SPAN 201 or equivalent Spanish language experience

Course Description: This second-year sequence reinforces, synthesizes, and builds on the basic skills acquired in first-year Spanish in speaking, writing, reading, and listening comprehension to the Intermediate High level. Special attention is given to developing cultural awareness. Students are required to communicate in Spanish. Materials include literary and cultural texts, audio exercises, films, music, and contextualized exercises in grammar. The sequence enables students to read at least Intermediate High proficiency as defined by the guidelines of the ACTFL (American Council on the Teaching of Foreign Languages). Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

- CLO#1: Speak clearly in Spanish about basic topics to those accustomed to dealing with non-native speakers.
- CLO#2: Demonstrate culturally appropriate behavior including greetings, introductions, leave-takings, and formal vs. informal styles of address.
- CLO#3: Use learned vocabulary words, phrases, and expressions on a variety of familiar topics, and reiterate input in their own sentences.
- CLO#4: Express themselves orally and in writing, across a range of tenses and moods including present, preterite, imperfect, future, imperative, and some basic subjunctive, although with some error and reformulations. (ILO: Communication)
- CLO#5: Comprehend and explain important ideas and the details from authentic audio and video sources.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

SPAN 203 - Second Year Spanish III

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

SPAN 202 or equivalent Spanish language experience

Course Description: This second-year sequence reinforces, synthesizes, and builds on the basic skills acquired in first-year Spanish in speaking, writing, reading, and listening comprehension to the Advanced Low level. Special attention is given to developing cultural awareness. Students are required to communicate in Spanish. Materials include literary and cultural texts, audio exercises, films, music, and contextualized exercises in grammar. The sequence enables students to read at least Intermediate High proficiency as defined by the guidelines of the ACTFL (American Council on the Teaching of Foreign Languages). Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree.

Course Learning Outcomes:

- CLO#1: Speak clearly in Spanish about basic topics to those accustomed to dealing with non-native speakers.
- CLO#2: Demonstrate culturally appropriate behavior including greetings, introductions, leave-takings, and formal vs. informal styles of address.
- CLO#3: Use learned vocabulary words, phrases, and expressions on a variety of familiar topics, and reiterate input in their own sentences.
- CLO#4: Express themselves orally and in writing, across a range of tenses and moods including present, preterite, imperfect, future, imperative, and some basic subjunctive, although with some error and reformulations. (ILO: Communication)
- CLO#5: Comprehend and explain important ideas and the details from authentic audio and video sources.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

Service Learning

SRV 101 - Service Learning

Var. (1-6) Credit(s)

Course Description: Develops a personal understanding of civic engagement via direct service to a community-based organization and through critical reflection. Students may propose service projects of their own design or may choose from a list of available projects. Course emphasis is on participating in activities that address identified community needs while developing academic skills and self-awareness. May be repeated for a maximum of six credits.

Course Learning Outcomes:

- CLO#1: Describe the culture (attitudes, behaviors and values) of a community organization.
- CLO#2: Demonstrate capacity to raise essential questions in order to facilitate project completion. (ILO: Critical Thinking)
- CLO#3: Collaborate productively on project activities with community members and/or organizational staff. (ILO: Communication)
- CLO#4: Demonstrate the ability to meet deadlines and complete planned actions.
- CLO#5: Identify personal safety strategies and follow established safety guidelines.

Typical Required and Recommended Equipment and Materials: Materials required vary with community assignments.

ACTI Code and Course Type

100 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard RCC delivery of (33) lab hours per credit, not to exceed (36) hours per credit.

Skills Training

ST 101 - Occupational Skills Training I

Var. (1-12) Credit(s)

Prerequisite(s):

Permission of Instructor.

Course Description: Provides work-related study and learning in selected occupational environments. Through this experience students will learn the essential technical, relational, and employability skills related to their occupational goal and individual work plan. Course is repeatable up to 12 credits.

Course Learning Outcomes:

CLO#1: Perform occupation-related duties and tasks as directed.

CLO#2: Communicate with worksite leads to establish skill attainment goals and benchmarks that align with the student's work plan. (ILO) Communication

CLO#3: Evaluate professional growth based on work experiences and mentor feedback.

CLO#4: Demonstrate work ethics and employability skills at a level of competence that meets both industry and workplace culture standards.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A require state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to excel (36) hours per term. variable credits per term.

ST 109 - Skills Training Seminar

1 Credit(s)

Prerequisite(s):

Permission of Instructor.

Course Description: Provides students with the opportunity to learn strategies for workplace success as a cohort. Topics related to experiential learning are addressed, including: techniques for self-monitoring and tracking progress, sustaining positive relationships with co-workers and supervisors, working with mentors, and handling workplace conflict. Presents information regarding the role played by non-verbal communication, written and unwritten workplace policies, and positive work ethics. Provides students with basic strategies for career advancement.

Course Learning Outcomes:

CLO#1: Identify and explain strategies to be a successful student in a work-based learning experience, and future employee.

CLO#2: Evaluate and apply communication tools utilized in the workplace. (ILO: Communication)

CLO#3: Create an effective resume.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ST 199 - Skills Training Workshop**Var. (1-4) Credit(s)****Prerequisite(s):**

Permission of Instructor.

Course Description: Offered in a number of formats dependent upon the student's area of interest. Course is repeatable up to four credits.

Course Learning Outcomes:

CLO#1: Variable.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

ST 199L - Skills Training Workshop Lab**Var. (1-4) Credit(s)****Prerequisite(s):**

Permission of Instructor.

Course Description: Offered in a number of formats dependent upon the student's area of interest. Course is repeatable up to four credits.

Course Learning Outcomes:

CLO#1: Variable.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

ST 201 - Occupational Skills Training II**Var. (1-12) Credit(s)****Prerequisite(s):**

ST 101 and permission of faculty advisor.

Course Description: Provides advanced work-related study and learning in selected occupational environments. Students will synthesize self-reflection and mentor evaluations to develop skills related to occupational goals and individual workplan. Focus is on skill mastery. Course is repeatable up to 12 credits.

Course Learning Outcomes:

- CLO#1: Perform occupation-related duties and tasks as directed.
- CLO#2: Communicate with worksite leads to create advanced skill attainment goals and competency benchmarks in relation to the student's work plan.
- CLO #3 Synthesizes self-reflections, mentor feedback, and prior academic learning to support skill attainment. (ILO: Critical Thinking)
- CLO#4: Demonstrate work ethics and employability skills at a level of competence that meets or exceeds both industry and workplace culture standards.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A require state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to excel (36) hours per term. variable credits per term.

Theater Arts

TA 141 - Fundamentals of Acting I

4 Credit(s)

Course Description: Introduces methods and techniques of acting as an art form. Scene work is included and performance is a part of advanced classes.

Course Learning Outcomes:

- CLO#1: Being seen and being heard: display competence in stage movement and vocal work, resulting in the ability of the audience to see, hear, understand, and resonate with the artist. (ILO: Communication)
- CLO#2: Preparing for a role: make the scene believable by memorization, imagination, listening, commitment, and relationship with other characters in the scene.
- CLO#3: Active Listening: maintain focus and connection in a scene, not only with themselves but their scene partner.
- CLO#4: Discipline: build trust as an ensemble by being on time, maintaining focus, and collaborating fully and responsibly in the creative process.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

TA 142 - Fundamentals of Acting II

4 Credit(s)

Prerequisite(s):

TA 141

Course Description: Builds on methods and techniques of acting as an art form introduced in TA 141. Scene work is included and performance is part of the class.

Course Learning Outcomes:

- CLO#1: Being seen and being heard: display competence in stage movement and vocal work, resulting in the ability of the audience to see, hear, understand, and resonate with the artist. (ILO: Communication)
- CLO#2: Preparing for a role: make the scene believable by memorization, imagination, listening, commitment, and relationship with other characters in the scene.
- CLO#3: Active Listening: maintain focus and connection in a scene, not only with themselves but their scene partner.
- CLO#4: Discipline: build trust as an ensemble by being on time, maintaining focus, and collaborating fully and responsibly in the creative process.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

TA 143 - Fundamentals of Acting III

4 Credit(s)

Prerequisite(s):

TA 142

Course Description: Continues developing methods and techniques of acting, growing towards a deeper understanding and proficiency in the art form. Scene work is included and performance is part of the class.

Course Learning Outcomes:

- CLO#1: Being seen and being heard: display competence in stage movement and vocal work, resulting in the ability of the audience to see, hear, understand, and resonate with the artist. (ILO: Communication)
- CLO#2: Preparing for a role: make the scene believable by memorization, imagination, listening, commitment, and relationship with other characters in the scene.
- CLO#3: Active Listening: maintain focus and connection in a scene, not only with themselves but their scene partner.
- CLO#4: Discipline: build trust as an ensemble by being on time, maintaining focus, and collaborating fully and responsibly in the creative process.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) hours per term, not to exceed (48) hours per term.

TA 144 - Improvisational Theater I**4 Credit(s)**

Course Description: Introduces methods and techniques of the art of improvisation through exercises, theater games, and impromptu scenes. Performance is part of the class.

Course Learning Outcomes:

- CLO#1: Apply the concept of "yes" through improvisation, moving the scene forward by giving and accepting "bold offers."
- CLO#2: Describe improvisational concepts and terms such as saying yes, making and accepting offers, defining, blocking, supporting your scene partner, and staying good-natured, and incorporate these concepts into a performance. (ILO: Communication)
- CLO#3: Display interpersonal and listening skills, and identify how interactive a scene is, how connected the actors are, and how well actors follow director's instructions.
- CLO#4: Build trust as an ensemble by being on time, maintaining focus, and collaborating fully and responsibly in the creative process.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) hours per term, not to exceed (48) hours per term.

TA 145 - Improvisational Theater II**4 Credit(s)****Prerequisite(s):**

TA 144

Course Description: Builds on methods and techniques of the art of improvisation introduced in TA 144 through exercises, theater games, and impromptu scenes. Performance is part of the class.

Course Learning Outcomes:

- CLO#1: Apply the concept of "yes" through improvisation, moving the scene forward by giving and accepting "bold offers."
- CLO#2: Describe improvisational concepts and terms such as saying yes, making and accepting offers, defining, blocking, supporting your scene partner, and staying good-natured, and incorporate these concepts into a performance. (ILO: Communication)
- CLO#3: Display interpersonal and listening skills, and identify how interactive a scene is, how connected the actors are, and how well actors follow director's instructions.
- CLO#4: Build trust as an ensemble by being on time, maintaining focus, and collaborating fully and responsibly in the creative process.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

TA 146 - Improvisational Theater III

4 Credit(s)

Prerequisite(s):

TA 145

Course Description: Continues developing methods and techniques of improvisation, growing towards a deeper understanding and proficiency in the art of improvisation through exercises, theater games, and impromptu scenes. Performance is part of the class.

Course Learning Outcomes:

- CLO#1: Apply the concept of "yes" through improvisation, moving the scene forward by giving and accepting "bold offers."
- CLO#2: Describe improvisational concepts and terms such as saying yes, making and accepting offers, defining, blocking, supporting your scene partner, and staying good-natured, and incorporate these concepts into a performance. (ILO: Communication)
- CLO#3: Display interpersonal and listening skills, and identify how interactive a scene is, how connected the actors are, and how well actors follow director's instructions.
- CLO#4: Build trust as an ensemble by being on time, maintaining focus, and collaborating fully and responsibly in the creative process.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

TA 153 - Theater Rehearsal and Performance

Var. (1-4) Credit(s)

Course Description: TA153 provides experience in rehearsing and performing plays as a member of the design, technical crew, or acting ensemble. Students will be evaluated on their artistic or energetic merit, their level of understanding of the work they are doing as it relates to theater arts, and their increasing insights into the collaborative process of producing plays.

Course Learning Outcomes:

- CLO#1: Demonstrate commitment by showing up on time to rehearsals and performances, coming prepared with scripts written and/or lines learned, and participating with enthusiasm. (ILO: Communication)
- CLO#2: Demonstrate attentive listening, connecting with the director and other actors.

CLO#3: Demonstrate the willingness to work on writing and rewriting monologues and scenes; to show improvement in vocal projection and articulation; and to display energy and enthusiasm in performance.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

TA 190 - Theater Practicum

Var. (1-3) Credit(s)

Course Description: TA190 allows students to receive credit for working on college theater productions. Students will be required to participate in a formal theater production in one or more of the following areas: acting, stage or house management, technical theater, directing, marketing, costume and/or makeup. Participation during the theater event is required for credit. Course may be repeated for up to six credits.

Course Learning Outcomes:

CLO#1: Demonstrate commitment by showing up on time to rehearsals and performances, displaying a strong work ethic, and showing a commitment to the production.

CLO#2: Demonstrate attentive listening, connecting with the director, actors, and other participants. (ILO: Communication)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard RCC delivery of (33) lab hours per term, not to exceed (36) hours per term.

TA 199 - Special Studies - Theater Arts

Var. (1-3) Credit(s)

Prerequisite(s):

Varies by course.

Course Description: Presents selected topics of study in theater arts, including theater for the deaf, communication through drama, children's theater, and directing. Course is repeatable.

Course Learning Outcomes:

CLO#1: Varies based on course focus. (ILO: Varies based on course focus.)

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

TA 280 - CWE - Theater

Var. (1-12) Credit(s)

Prerequisite(s):

Cooperative education is open to all students who have completed at least one-half of the required classes for their program of study and have the recommendation of the Department Cooperative Education advisor.

Course Description: Cooperative education is a supervised program of on-the-job training for college credit in a Theater-related area. Students are placed in a related industry, business, agency or organization which has been approved by the College as having the interest, personnel, and resources to serve as a training center. The goal of cooperative education is to provide a learning experience which enriches and strengthens the student's education, personal development, and vocational preparation. It joins educators and employers in developing the community's greatest asset-its human resources. Course is repeatable.

Course Learning Outcomes:

CLO#1: Gain college credit for a valid learning experience to fulfill degree or certificate requirements.

CLO#2: Apply classroom theory to real world job experience. (ILO: Critical Thinking)

CLO#3: Apply skills, gain experience, and make contacts which will help in obtaining a job after graduation.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

Welding

WLD 101 - Welding Fundamentals I

3 Credit(s)

Course Description: Introduces basic theory of oxy/fuel cutting/welding, Shielded Metal Arc Welding, and Gas Metal Arc Welding, with emphasis on safety. Includes basic skill development in preparation of metal, welding, and cutting.

Course Learning Outcomes:

CLO#1: Perform all tasks in accordance with all program and industry standards

CLO#2: Operate welding machine setup and adjustment. Identify electrodes using AWS system. (ILO: Critical Thinking)

CLO#3: Independently assemble, set up and operate oxy fuel welding system. Produce industry quality welds in the flat and horizontal positions. Weld configurations to include but lap and T welds.

CLO#4: Safely and independently set up, light and adjust an oxy fuel cutting system. Produce industry quality straight and circular cuts on varying thicknesses of plate.

CLO#5: Produce sound welds using E6010/11 in the flat and horizontal position.

Configurations to include lap, square groove butt and multiple pass T weld.

CLO#6: Demonstrate safe operation practices of bandsaws, pedestal and angle grinders.

Typical Required and Recommended Equipment and Materials: Students will provide his/her own personal protective clothing which shall include: welding hoods, safety glasses, leather jacket and chaps, leather welding gloves, welding hat, and slag hammer/wire brush.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

WLD 102 - Welding Fundamentals II

3 Credit(s)

Prerequisite(s):

WLD 101

Course Description: Continues study in oxy/fuel cutting/welding, and Shielded Metal Arc Welding, with emphasis on safety.

Course Learning Outcomes:

CLO#1: Perform all tasks in accordance with all program and industry standards.

CLO#2: Independently demonstrate proper welding machine setup and adjustment. Identify electrodes using AWS system. (ILO: Critical Thinking)

CLO#3: Produce industry quality welds using E 7018 in the flat, horizontal positions and vertical positions. Welds will include beads, lap, 3 and 6 pass T weld.

CLO#4: Safely and independently set up and adjust a plasma cutting system. Produce industry quality straight and circular cuts on varying thicknesses of plate.

CLO#5: Set up, adjust and perform air carbon arc gouging on carbon steel.

CLO#6: Fabricate a vessel to drawing specifications. The weldment will have a performance indicator or destructive test as the scoring guideline.

Typical Required and Recommended Equipment and Materials: Students will provide his/her own personal protective clothing which shall include: welding hoods, safety glasses, leather jacket and chaps, leather welding gloves, welding hat, and slag hammer/wire brush.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

WLD 104 - Blueprint Reading - Mechanical

3 Credit(s)

Prerequisite(s):

MTH 20 or designated placement

Recommended Prerequisite(s):

MTH 102CT or designated placement

Course Description: Introduces mechanical blueprints using multi-view projection, sectional views, auxiliary views, title blocks, and drawing formats which are the basis for all graphical communication in the manufacturing industry today. Knowledge of the techniques used on blueprints is necessary in the industry whenever descriptions of size, shape, and arrangement are used to produce, service, or sell a product. This course also introduces students to blueprint and drawing techniques which will be built upon with additional modules in the program. Dual numbered as MET 105.

Course Learning Outcomes:

- CLO#1: Evaluate the basic elements of industry blueprints.
- CLO#2: Interpret basic dimensioning standards within a blueprint. (ILO: Critical Thinking)
- CLO#3: Interpret auxiliary views from a machinist perspective.
- CLO#4: Interpret standard-drawing title block notes and drawing formats used in industry.

Typical Required and Recommended Equipment and Materials: Scientific calculator (Texas Instrument TI-36X is recommended), scratch paper for calculations, pen and pencils.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (60) and a standard RCC delivery of (66) lecture/lab hours per term, not to exceed (72) hours per term.

WLD 105 - Blueprint Reading for Industry

3 Credit(s)

Prerequisite(s):

MTH 20 or designated placement

Recommended Prerequisite(s):

MTH 102CT

Course Description: Prints are manufacturing instructions and generally contain a drawing, dimensions, and notes. Print reading is the universal form of communication allowing the engineering department and the manufacturing department to communicate all the information that is needed to manufacture a product. Upon completion of the course, you will have gained a new set of skills for reading engineering prints. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Interpret and define the technical information provided on industrial prints through drawings, dimensions, and notes. (ILO: Communication)
- CLO#2: Identify parts from drawings consisting of multiple views, including basic, auxiliary, partial and various types of section views. (ILO: Critical Thinking)
- CLO#3: Interpret weld symbols notes found on welded part prints and sheet metal prints.

CLO#4: Describe drawing features, dimensioning, symbols and notes unique to gears, splines, and cams.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

WLD 111 - Industrial Welding I

6 Credit(s)

Prerequisite(s):

Permission of Instructor.

Course Description: Covers the fundamentals of welding as required by the metal fabrication industry. Provides extensive hands-on training in shielded metal arc welding (SMAW), oxygen/acetylene, and plasma cutting of ferrous metals. Also develops skills needed for American Welding Society-based (AWS) certifications and employment in the welding/fabrication industry.

Course Learning Outcomes:

CLO#1: Perform all tasks in accordance with all program and industry standards.

CLO#2: Properly set up welding machine and adjust according to WPS. (ILO: Critical Thinking)

CLO#3: Demonstrate welding process operations for cutting and joining ferrous metals.

CLO#4: Produce sound welds in the five basic joint configurations.

CLO#5: Utilizes the tools and skills necessary for basic welding shop fabrication.

Typical Required and Recommended Equipment and Materials: Students will provide his/her own personal protective clothing which shall include: welding hoods, safety glasses, leather jacket and chaps, leather welding gloves, welding hat, and slag hammer/wire brush.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120) and a standard RCC delivery of (132) lecture/lab hours per term, not to exceed (144) hours per term.

WLD 111D - Industrial Welding for Diesel

6 Credit(s)

Prerequisite(s):

Must be currently enrolled in Diesel Technology Program.

Course Description: Covers the fundamentals of welding required by the metal fabrication industry. Diesel students will be introduced to the principles of electric and gas welding and cutting.

Course Learning Outcomes:

- CLO#1: Perform all tasks in accordance with all program and industry standards.
- CLO#2: Properly set up a welding power source for SMAW in accordance to Weld Procedure Specification. (ILO: Critical Thinking)
- CLO#3: Demonstrate welding process operations for cutting and joining ferrous metals.
- CLO#4: Produce sound welds in the five basic joint configurations.
- CLO#5: Identify steps necessary to repair breaks and cracks in mild steel components.
- CLO#6: Demonstrate proper machine set up for Gas Metal Arc Welding. (GMAW)

Typical Required and Recommended Equipment and Materials: Students will provide his/her own personal protective clothing which shall include: welding hoods, safety glasses, leather jacket and chaps, leather welding gloves, welding hat, and slag hammer/wire brush.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120) and a standard RCC delivery of (132) lecture/lab hours per term, not to exceed (144) hours per term.

WLD 111M - Industrial Manufacturing Welding**6 Credit(s)****Prerequisite(s):**

Must be currently enrolled in Manufacturing Technology Program.

Course Description: Covers the fundamentals of welding required by the metal fabrication industry. Manufacturing students will be introduced to the principles of electric and gas welding and cutting.

Course Learning Outcomes:

- CLO#1: Perform all tasks in accordance with all program and industry standards.
- CLO#2: Properly set up SMAW power source according to applicable Weld Procedure Specifications. (ILO: Critical Thinking)
- CLO#3: Demonstrate welding process operations for cutting and joining ferrous metals.
- CLO#4: Produce sound welds in the five basic joint configurations using GMAW.
- CLO#5: Set up and operate Gas Tungsten Arc Welding equipment for use on carbon steel.

Typical Required and Recommended Equipment and Materials: Students will provide his/her own personal protective clothing which shall include: welding hoods, safety glasses, leather jacket and chaps, leather welding gloves, welding hat, and slag hammer/wire brush.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120) and a standard RCC delivery of (132) lecture/lab hours per term, not to exceed (144) hours per term.

WLD 112 - Industrial Welding II

6 Credit(s)

Prerequisite(s):

WLD 111

Course Description: Provides students with further instruction in Shielded Metal Arc Welding (SMAW) in the vertical and overhead positions. Students will also be introduced to Gas Metal Arc Welding (GMAW) processes on mild steel. Fitting joints to AWS D1.1 specifications will also be introduced.

Course Learning Outcomes:

CLO#1: Demonstrate personal adoption of the "culture of safety" in the classroom and in the welding lab.

CLO#2: Fit up and produce acceptable welds in 3G vertical and 4G overhead on varying thicknesses of plate.

CLO#3: Perform back gouging and cutting using the Air Arc and PAC Processes.

CLO#4: Identify, set up and adjust basic components of a GMAW system for mild steel. (ILO: Critical Thinking)

CLO#5: Produce beads and basic weldments using GMAW on mild steel in the flat and horizontal positions.

CLO#6: Independently inspect, set-up and perform maintenance specific to the SMAW and GMAW welding power sources.

Typical Required and Recommended Equipment and Materials: Students will provide his/her own personal protective clothing including welding hoods, safety glasses, leather jacket and chaps, leather welding gloves, welding hat, and slag hammer/wire brush.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120) and a standard RCC delivery of (132) lecture/lab hours per term, not to exceed (144) hours per term.

WLD 113 - Industrial Welding III

6 Credit(s)

Prerequisite(s):

WLD 112

Course Description: Allows students to work towards mastery of Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) on both ferrous and non-ferrous materials in all positions. OR-OSHA-based safety training and non-ferrous alloy identification complete the course.

Course Learning Outcomes:

CLO#1: Demonstrate personal adoption of the "culture of safety" in the classroom and in the welding lab.

CLO#2: Independently set-up for GMAW operations on ferrous metals.

CLO#3: Use GMAW to make groove welds on low carbon steel.

CLO#4: Set up for FCAW operations on low carbon steel. (ILO: Critical Thinking)

CLO#5: Use FCAW to make fillet welds in flat and horizontal positions on low carbon steel.

CLO#6: Use FCAW to make groove welds in flat and horizontal positions on low carbon steel.

Typical Required and Recommended Equipment and Materials: Students will provide his/her own personal protective clothing which shall include: welding hoods, safety glasses, leather jacket and chaps, leather welding gloves, welding hat, and slag hammer/wire brush.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120) and a standard RCC delivery of (132) lecture/lab hours per term, not to exceed (144) hours per term.

WLD 121 - Fabrication and Repair Practices I

5 Credit(s)

Prerequisite(s):

WLD 111

Course Description: As the first of a series of two fabrication and repair courses, students are given a fundamental overview of the various fabrication and repair practices used in the steel fabrication industry, and safety in welding and fabrication. Course is based on the American Welding Society Entry Level Requirements (AWS EG2.0 and AWS QC10) utilizing the Instructor's experience, in accordance with the American Welding Society AWS D1.1 (Structural Welding Code - Steel). Fit-up and alignment of parts to assemble various weldments and pipe joints and the basic procedures of planning, sketching, cost evaluation, ordering, layout, metal preparation, part fabrication, tack-up, and final welding will be introduced and applied. Shop math, distortion control, how to use squares, protractors, levels, clamps and string lines used in the fit-up process are also taught.

Course Learning Outcomes:

CLO#1: Perform all tasks in accordance with all program and industry standards.

CLO#2: Perform sound weldments on all five basic weld joints and in all positions.

CLO#3: Work cooperatively with others and contribute to group with ideas, suggestions, solutions and effort (team building).

CLO#4: Reference and utilize required texts to properly execute fabrication techniques. (ILO: Information Literacy)

CLO#5: Utilizes the tools and skills necessary for basic welding shop fabrication.

Typical Required and Recommended Equipment and Materials: Students will provide his/her own personal protective clothing which shall include: welding hoods, safety glasses, leather jacket and chaps, leather welding gloves, welding hat, and slag hammer/wire brush.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (100) and a standard RCC delivery of (110) lecture/lab hours per term, not to exceed (120) hours per term.

WLD 122 - Fabrication and Repair Practices II

5 Credit(s)

Prerequisite(s):

MET 101 and WLD 111

Course Description: The second of two fabrication and repair courses, builds on skills developed in WLD 121 and provides an overview of the various fabrication and repair practices used in the steel fabrication industry. Safety in welding and fabrication is emphasized. The course is based on the American Welding Society's entry-level requirements (AWS EG2.0 and AWS QC10) utilizing the instructor's experience, and in accordance with the American Welding Society AWS D1.1 Structural Welding Code - Steel. Students receive instruction in fit-up and alignment of parts to assemble various weldments and pipe joints, and the basic procedures of planning, sketching, cost evaluation, ordering, layout, metal preparation, part fabrication, tack-up, and final welding will be introduced and applied. Advanced shop math, distortion control, and how to use squares, protractors, levels, clamps and string lines used in the fit-up process are included.

Course Learning Outcomes:

- CLO#1: Demonstrate the ability to fabricate large and small weldments using advanced fabrication tools and the platen table.
- CLO#2: Use advanced alignment and leveling methods as well as advanced part assembly and tack welding.
- CLO#3: Fabricate an advanced welding project safely (individual or class) utilizing concepts to design, drawing, dimensioning, tolerance, materials lists, cut lists, squaring, lay-out, tacking, and welding sequence methods.
- CLO#4: Use advanced tools/guides/manuals to properly set-up and maintain all welding/cutting machines for metal fabrication.
- CLO#5: Determine acceptable weld size (by code) for various material thickness and joint configuration. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Students will provide his/her own personal protective clothing that includes: boots, welding hoods, safety glasses, leather jacket and chaps, leather welding gloves, welding hat, and slag hammer/wire brush.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (100) and a standard RCC delivery of (110) lecture/lab hours per term, not to exceed (120) hours per term.

WLD 160 - AWS Certification Seminar - Plate

1 Credit(s)

Prerequisite(s):

WLD 112

Course Description: Covers the definition, application and interpretation of the American Welding Society (AWS) Structural Welding Code D1.1. Students will cut and assemble test weldments in accordance with AWS specifications using FCAW and SMAW processes. Inspection of completed weldments will be done by third party AWS Certified Weld inspector. If passed successfully, students will be awarded the AWS Unlimited 3G and 4G all position welding qualification.

Course Learning Outcomes:

- CLO#1: Identify and apply safe shop procedures required to function at an industry accepted level while performing welding processes associated with the SMAW welding procedure.
- CLO#2: Use American Welding Society Code D1.1 as it applies to SMAW, GTAW and/ or FCAW on pipe. (ILO: Critical Thinking)
- CLO#3: Perform qualification welds in the 3G and 4G positions on 1" A/36 mild steel plate.
- CLO#4: Prepare weldments for guided bend testing.
- CLO#5: Conduct, evaluate and successfully remediate weld specimen guided bend test resulting in certification.

Typical Required and Recommended Equipment and Materials: Safety glasses, welding hood, pliers, slag hammer, wire brush, weld gauges.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

WLD 165 - Welded Sculpture I**4 Credit(s)**

Course Description: Provides instruction methods in oxy acetylene cutting, Gas Metal Arc Welding, plasma cutting and brazing to be used for fabricating art pieces in welding rod and sheet metal. The types of design and fabrication that are unique to steel as opposed to other media are explored through instruction, demonstration, research, and application of learned techniques. Information about welding will be conveyed through lecture, handouts, demonstration and video.

Course Learning Outcomes:

- CLO#1: Create sketches or models of original sculptural concepts based on research of artists and other preparatory studies. (ILO: Critical Thinking)
- CLO#2: Apply fundamental steel fabrication techniques to create sculptures, analyzing the unique characteristics of the medium to solve design challenges.
- CLO#3: Use appropriate techniques and equipment to form metal and produce a finished sculpture.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

WLD 166 - Welded Sculpture II**4 Credit(s)**

Prerequisite(s): WLD 165

Course Description: Builds on skill sets developed in Welded Sculpture I. Use and application of

advanced forming tools, CNC Plasma table, pattern development, Gas Tungsten Arc Welding and hot forming techniques will be some of the techniques and processes used in this class. Design styles like art deco, grunge and psychedelic art will expose students to differing views of this medium. These styles will then be applied to various student projects.

Course Learning Outcomes:

- CLO#1: Perform all tasks in accordance with accepted industry safety standards
- CLO#2: Differentiate between design styles (e.g., art deco, minimalist, grunge, etc.) in relation to their application in welded sculpture projects. (ILO: Critical Thinking)
- CLO#3: Apply advanced fabricating and metal forming techniques.
- CLO#4: Utilize material finishing techniques for specific projects.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (80) and a standard RCC delivery of (88) lecture/lab hours per term, not to exceed (96) hours per term.

WLD 199 - Special Studies - Welding

Var. (1-4) Credit(s)

Prerequisite(s):

May vary depending on course subject offerings.

Course Description: Provides study for students in technical programs to areas linked to industry. State-of-the-art equipment is used for industry standard-level instruction. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Demonstrate application of safety policies and procedures.
- CLO#2: Independently apply fabrication and layout procedures.
- CLO#3: Identify industry terminology, materials and processes specific to the subject. (ILO: Critical Thinking)
- CLO#4: Produce industry quality components utilizing processes and procedures specified within by Instructor.

Typical Required and Recommended Equipment and Materials: Check with Instructor

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

WLD 199LL - Special Studies - Welding

Var. (1-4) Credit(s)

Prerequisite(s):

May vary depending on course subject offerings.

Course Description: Provides study for students in technical programs to areas linked to Industry. State-of-the-art equipment is used for industry standard-level instruction. Course is repeatable.

Course Learning Outcomes:

CLO#1: Demonstrate application of safety policies and procedures.

CLO#2: Independently apply fabrication and layout procedures.

CLO#3: Identify industry terminology, materials and processes specific to the subject. (ILO: Critical Thinking)

CLO#4: Produce industry quality components utilizing processes and procedures specified by instructor.

Typical Required and Recommended Equipment and Materials: Check with Instructor.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term

WLD 211 - Industrial Welding IV

6 Credit(s)

Prerequisite(s):

WLD 113

Course Description: Covers the advanced techniques in welding mild steel, stainless steel, aluminum, and exotic metals using the flux cored arc welding (FCAW) and gas metal arc welding (GMAW) processes. Includes flux cored and solid wire with machine and spool guns. Also advances skills needed for American Welding Society certification and employment in the welding/fabrication industry.

Course Learning Outcomes:

CLO#1: Demonstrate personal adoption of the "culture of safety" in the classroom and the welding lab.

CLO#2: Properly set up machines for GMAW operations on stainless steel and aluminum.

CLO#3: Properly set up machines for FCAW operations on mild steel, stainless steel and aluminum. (ILO: Critical Thinking)

CLO#4: Demonstrate knowledge of metal transfer and shielding gases, beading and puddling, and fabrication of weld joints, using the FCAW and GMAW processes.

Typical Required and Recommended Equipment and Materials: Students will provide his/her own personal protective clothing which shall include: welding hoods, leather work boots, safety glasses, leather jacket and chaps, leather welding gloves, welding hat, and slag hammer/wire brush

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120) and a standard RCC delivery of (132) lecture/lab hours per term, not to exceed (144) hours per term.

WLD 212 - Industrial Welding V**6 Credit(s)****Prerequisite(s):**

WLD 111, WLD 112, WLD 113, WLD 211

Course Description: Covers advanced techniques in welding mild steel, stainless steel, aluminum, and exotic metals using the Gas Tungsten Arc Welding (GTAW) process. Also advances skills needed for American Welding Society certification and employment in the welding/fabrication industry.

Course Learning Outcomes:

- CLO#1: Demonstrate personal adoption of the "culture of safety" in the classroom and the welding lab.
- CLO#2: Properly set up machines for GTAW operations on mild steel, stainless steel and aluminum.
- CLO#3: Demonstrate electrode and filler metal selection, shielding gases, beading and puddling, and fabrication of weld joints, using the GTAW process. (ILO: Critical Thinking)

Typical Required and Recommended Equipment and Materials: Stainless steel brushes, leather gloves, 3/32" tungsten and all necessary personal protective equipment.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120) and a standard RCC delivery of (132) lecture/lab hours per term, not to exceed (144) hours per term.

WLD 213 - Industrial Welding VI**6 Credit(s)****Prerequisite(s):**

WLD 212

Course Description: Focuses on welding large and small diameter, ferrous and non-ferrous pipe using the SMAW, GMAW, and GTAW welding processes. Includes pattern development, machine and manual oxyacetylene cutting, plasma cutting, layout, fit-up, inspection, and testing techniques. Also advances skills needed for American Welding Society (AWS) and American Society of Mechanical Engineers (ASME) certifications and employment in the welding/fabrication industry.

Course Learning Outcomes:

- CLO#1: Demonstrate personal adoption of the "Culture of Safety" in the classroom and the welding lab.
- CLO#2: Fit weldments to industry standards using hand and machine beveling equipment.

CLO#3: Perform open root welds on pipe in the 2G, 5G, and 6G positions using SMAW. (ILO: Critical Thinking)

CLO#4: Produce open root welds on mild steel plate in the 3G and 4G using GMAW.

CLO#5: Produce open root weld on mild steel plate in the 3G and 4G using GTAW.

CLO#6: Perform open root welds on pipe in the 2G, 5G, and 6G using GTAW.

Typical Required and Recommended Equipment and Materials: Students will provide his/her own personal protective clothing which shall include: welding hoods, safety glasses, leather jacket and chaps, leather welding gloves, welding hat, and slag hammer/wire brush.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (120) and a standard RCC delivery of (132) lecture/lab hours per term, not to exceed (144) hours per term.

WLD 220 - Machine Tool Maintenance and Repair

3 Credit(s)

Prerequisite(s):

WLD 113

MTH 60 or MTH 102CT or designated placement

WR 121Z or designated placement

Course Description: Focuses on troubleshooting problems commonly encountered in welding and fabricating equipment. Students will learn basic electrical principles and apply them to simple repair tasks on welding power sources. Removal and replacement of mechanical components on welding equipment and shop equipment (band saws, shears, drill presses, etc.) will round out the students' ability to function independently in the shop setting.

Course Learning Outcomes:

CLO#1: Explain the basic electrical concepts associated with welding power sources, include possible hazards encountered during troubleshooting and how to avoid them.

CLO#2: Troubleshoot and prescribe repair solutions for power sources commonly used in Shielded Metal Arc Welding.

CLO#3: Troubleshoot and repair power sources commonly used in Gas Metal and Gas Tungsten welding equipment.

CLO#4: Demonstrate basic maintenance procedures on SMAW, GMAW and GTAW equipment including proper maintenance records. (ILO: Communication)

CLO#5: Follow proper maintenance procedures of general shop fabrication equipment (e.g., band saws, drill press, angle grinder, sander, shears, ironworker), including documenting maintenance.

CLO#6: Independently demonstrate basic maintenance procedures on engine driven welder/generator machines.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

WLD 221 - Codes - Procedures - Inspections

3 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

MTH 20 or designated placement

Course Description: Studies the differences between various welding codes e.g., American Welding Society D1.1 Structural Steel, ASME Section IX Power Piping, API Pipeline, and others. Focuses on welding procedure specification (WPS), procedure qualification record (PQR), and welder qualification record (WQR). Covers visual inspection, destructive, and non-destructive testing of welds in accordance with the American Welding Society D1.1 and D1.4 welding codes.

Course Learning Outcomes:

CLO#1: Recognize where AWS welding codes are required for welding application and select correct code to apply to the welding application.

CLO#2: Select and write appropriate WPS required for a specified weldment using the various welding codes.

CLO#3: Identify and evaluate relevant welder certifications.

CLO#4: Use AWS D1.1 Structural Steel Welding Code to accurately determine base metal and filler metal combinations. (ILO: Critical Thinking)

CLO#5: Use appropriate AWS codes and testing procedures to accurately inspect weldments.

CLO#6: Apply the appropriate destructive and non-destructive test methods on welds based on required strengths and anticipated weakness.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

WLD 250A - Selected Topics in Welding FCAW

Var. (2-6) Credit(s)

Prerequisite(s):

Student must be an Industrial Welding Technology major.

Course Description: Focuses on further development of skill in Flux Cored Arc Welding as identified by the student and instructor. An individualized plan will be developed to further the students' technical and practical application of self-shielded and/or gas shielded flux core welding in all positions on carbon steel. Course may be repeated up to six credits.

Course Learning Outcomes:

CLO#1: Demonstrate personal adoption of the "Culture of safety."

CLO#2: Create a plan to improve the identified skill set including: process details, WPS (if applicable), timeframe and practical assignment list. (ILO: Communication)

CLO#3: Produce industry quality weld samples according to student plan.

Typical Required and Recommended Equipment and Materials: Safety glasses, welding hood, pliers, slag hammer, wire brush, weld gauges.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

WLD 250B - Selected Topics in Welding GTAW**Var. (2-6) Credit(s)****Prerequisite(s):**

Student must be an Industrial Welding Technology major.

Course Description: Further development of skill in Gas Tungsten Arc Welding, as identified by the student and instructor. An individualized plan will be developed to further the students' technical and practical application of GTAW on, but not limited to: mild steel, stainless steel, and aluminum. Course may be repeated up to six credits.

Course Learning Outcomes:

CLO#1: Demonstrate personal adoption of the "Culture of safety."

CLO#2: Create a plan to improve the identified skill set including: process details, WPS (if applicable), timeframe and practical assignment list. (ILO: Communication)

CLO#3: Produce industry quality weld samples according to student plan.

Typical Required and Recommended Equipment and Materials: Safety glasses, welding hood, pliers, slag hammer, wire brush, weld gauges.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

WLD 250C - Selected Topics in Welding SMAW**Var. (2-6) Credit(s)****Prerequisite(s):**

Student must be an Industrial Welding Technology major.

Course Description: Will focus on further development of skill in Shielded Metal Arc Welding as identified by the student and instructor. An individualized plan will be developed to further the students' technical and practical application of self-shielded and/or gas shielded flux core welding in all positions on carbon steel. Course may be repeated up to six credits.

Course Learning Outcomes:

CLO#1: Demonstrate personal adoption of the "Culture of safety."

CLO#2: Create a plan to improve the identified skill set including: process details, WPS (if applicable), timeframe and practical assignment list. (ILO: Communication)

CLO#3: Produce industry quality weld samples according to student plan.

Typical Required and Recommended Equipment and Materials: Safety glasses, welding hood, pliers, slag hammer, wire brush, weld gauges.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

WLD 250D - Selected Topics in Welding GMAW

Var. (2-6) Credit(s)

Prerequisite(s):

Student must be an Industrial Welding Technology major.

Course Description: Course will focus on further development of skill in Gas Metal Arc Welding as identified by the student and instructor. An individualized plan will be developed to further the students' technical and practical application of Gas Metal Arc Welding in all positions on carbon steel and aluminum. Course may be repeated up to six credits.

Course Learning Outcomes:

CLO#1: Demonstrate personal adoption of the "Culture of safety."

CLO#2: Create a plan to improve the identified skill set including: process details, WPS (if applicable), timeframe and practical assignment list. (ILO: Communication)

CLO#3: Produce industry quality weld samples according to student plan.

Typical Required and Recommended Equipment and Materials: Safety glasses, welding hood, pliers, slag hammer, wire brush, weld gauges.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

WLD 250F - Welding Capstone Project

Var. (2-6) Credit(s)**Prerequisite(s):**

WLD 113 and student must be an Industrial Welding Technology major.

Course Description: Course designed to build on trade related practices such as welding, project design, layout, project finishing, planning and estimating. Students will utilize the aforementioned areas to independently complete a project to meet requisite hours for the class. Applicable welding processes may be GTAW, FCAW, GMAW and SMAW. Students will complete a detailed planning packet with drawings, schedules, pricing and inspection points where grades will be derived. Course may be repeated up to six credits.

Course Learning Outcomes:

CLO#1: Develop Safety plan for project.

CLO#2: Develop project plan, drawings material list, applicable WPS, assembly sequence, job planning and estimating. (ILO: Critical Thinking)

CLO#3: Perform assembly and tacking procedures using appropriate welding procedures.

CLO#4: Perform welding procedures according to applicable WPS for the selected process.

CLO#5: Perform grinding, sanding, burnishing or other applicable finish procedures as described in plan to ready project for grading.

Typical Required and Recommended Equipment and Materials: Safety glasses, welding hood, pliers, slag hammer, wire brush, weld gauges.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

WLD 250P - Selected Topics CNC Plasma Cutting**3 Credit(s)****Prerequisite(s):**

MTH 60 or MTH 102CT or higher-level math or designated placement, and WLD 112.

Recommended Prerequisite(s):

MFG 140

Course Description: Introduces students to the basics of CNC plasma cutting. Participants will learn operation and set-up procedures for CNC plasma as well as geometry creation and programming. This course is recommended for anyone interested in CNC plasma cutting for industry applications or artwork.

Course Learning Outcomes:

CLO#1: Demonstrate a working knowledge of introductory CNC Plasma Cutting.

CLO#2: Demonstrate improved mathematics, as derived points must be calculated. (ILO: Quantitative Literacy and Reasoning)

CLO#3: Apply improved technology applications as programs must be written and tested on machinery.

CLO#4: Demonstrate three-dimensional thinking to determine cutter paths.

CLO#5: Demonstrate proper safety practices in the lab and workplace.

Typical Required and Recommended Equipment and Materials: Safety glasses, 3 Ring Binder, Flash Drive; 8 GB Recommended

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

WLD 260 - AWS Certification Seminar - Pipe

1 Credit(s)

Prerequisite(s):

WLD 212

Course Description: Covers the definition, application and interpretation of the American Welding Society (AWS) Structural Welding Code D1.1. Upon completion of this class students are eligible to take the AWS practical FCAW, GTAW and/or SMAW Unlimited Tests. If passed successfully, students will be awarded the AWS Unlimited 6G welding certification.

Course Learning Outcomes:

CLO#1: Identify and apply safe shop procedures required to function at an industry accepted level while performing welding processes associated with the SMAW welding procedure.

CLO#2: Use American Welding Society Code D1.1 as it applies to SMAW, GTAW and/ or FCAW on pipe. (ILO: Critical Thinking)

CLO#3: Perform qualification welds in the 6G position on A36 Pipe.

CLO#4: Prepare weldments for guided bend testing.

CLO#5: Conduct, evaluate and successfully remediate weld specimen guided bend test resulting in certification.

Typical Required and Recommended Equipment and Materials: Safety glasses, welding hood, pliers, slag hammer, wire brush, weld gauges.

ACTI Code and Course Type

210 Career / Tech Preparatory

Length of Course:

A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

WLD 280 - CWE - Welding

Var. (1-12) Credit(s)

Prerequisite(s):

Prior arrangements with CWE Instructor or Department Chair.

Course Description: Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their programs. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Course is repeatable.

Course Learning Outcomes:

- CLO#1: Successfully complete the interview process. (ILO: Communication)
- CLO#2: Complete forms accurately and meet deadlines.
- CLO#3: Apply program knowledge, theories, principles, methods and technology while gaining new knowledge, skills and experience while on the jobsite.
- CLO#4: Make contacts which will help in obtaining employment.

ACTI Code and Course Type
210 Career / Tech Preparatory

Length of Course:

PER CREDIT: A required state minimum of (30) and a standard of (33) CWE hours per term, not to exceed (36) hours per term.

Writing

WR 114 - Expository Writing in Spanish

3 Credit(s)

Course Description: WR114 reviews the basic conventions, purposes, and strategies of college-level writing, with an emphasis on in-class writing. The course will survey a variety of rhetorical modes and prepare students for impromptu questions and essays. The course will be conducted in Spanish, and all the assignments will be written in Spanish.

Course Learning Outcomes:

- CLO#1: Develop writing with concrete examples relevant to the intended audience.
- CLO#2: Express ideas in a clear and readily understandable manner. (ILO: Communication)
- CLO#3: Apply knowledge of voice and style relevant to the audience and the specific writing task.
- CLO#4: Identify the demands of various rhetorical modes of writing. (ILO: Critical Thinking)
- CLO#5: Write fluent sentences of varying length and complexity that follow the conventions of Spanish grammar and usage.
- CLO#6: Perform required writing tasks in a timely manner, with little or no outside mediation. (ILO: Communication)

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

WR 115 - Introduction to Expository Writing

3 Credit(s)

Prerequisite(s):

Placement into WR115.

Corequisite(s):

WR 115Q as required based on placement.

Course Description: WR115 reviews the basic conventions, purposes, and strategies of college-level writing, with an emphasis on in-class writing. The course will survey a variety of rhetorical modes and prepare students for impromptu questions and essays.

Course Learning Outcomes:

- CLO#1: Develop writing with concrete examples relevant to the intended audience. (ILO: Communication)
- CLO#2: Express ideas in a clear and readily understandable manner.
- CLO#3: Apply knowledge of voice and style relevant to the audience and the specific writing task.
- CLO#4: Identify the demands of various rhetorical modes of writing. (ILO: Critical Thinking)
- CLO#5: Write fluent sentences of varying length and complexity that follow the conventions of English grammar and usage.
- CLO#6: Perform required writing tasks in a timely manner, with little or no outside mediation.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

WR 115Q - Corequisite Support for WR115

1 Credit(s)

Prerequisite(s):

Designated placement.

Course Description: This support course focuses on the foundational skills and concepts needed to persist and succeed in WR 115 Introduction to Expository Writing. In an interactive setting, students will receive appropriate support in the strategies and conventions of college-level writing with an emphasis on in-class writing and reading comprehension.

Course Learning Outcomes:

- CLO#1: Develop writing with concrete examples relevant to the intended audience. (ILO: Communication)
- CLO#2: Express ideas in a clear and readily understandable manner.
- CLO#3: Apply knowledge of voice and style relevant to the audience and the specific writing task.

- CLO#4: Identify the demands of various rhetorical modes of writing. (ILO: Critical Thinking)
- CLO#5: Write fluent sentences of varying length and complexity that follow the conventions of English grammar and usage.
- CLO#6: Perform required writing tasks in a timely manner, with little or no outside mediation.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

LECTURE/LAB PORTION: A required state minimum of (20) and a standard RCC delivery of (22) lecture/lab hours per term, not to exceed (24) hours per term.

WR 117 - Writing for CTE Professionals

3 Credit(s)

Course Description: WR117 focuses on writing in career and technical fields. It reviews the basic conventions of English, but centers on the types of reading and writing expected in professional trade settings and may be geared toward a particular trade field depending on the makeup of the class.

Course Learning Outcomes:

- CLO#1: Express ideas in a clear and readily understandable manner following the conventions of written English. (ILO: Communication)
- CLO#2: Use the appropriate voice and genre for work related written communication, such as emails, reports, orders, invoices, and project quotes.
- CLO#3: Identify the layout and structure of industry texts, such as handbooks, manuals, and instructions.

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (30) and a standard RCC delivery of (33) lecture hours per term, not to exceed (36) hours per term.

WR 121Z - Composition I

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: WR 121Z engages students in the study and practice of critical thinking, reading, and writing. The course focuses on analyzing and composing across varied rhetorical situations and in multiple genres. Students will apply key rhetorical concepts flexibly and collaboratively throughout their writing and inquiry processes. Formerly offered as WR121.

Course Learning Outcomes:

- CLO#1: Apply rhetorical concepts through analyzing and composing a variety of texts (ILO: Communication)
- CLO#2: Engage texts critically, ethically, and strategically to support writing goals. (ILO: Critical Thinking)
- CLO#3: Develop flexible composing, revising, and editing strategies for a variety of purposes, audiences, writing situations, and genres. (ILO: Communication)
- CLO#4: Reflect on knowledge and skills developed in this course and their potential applications in other writing contexts. (ILO: Critical Thinking)

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

WR 122Z - Composition II

4 Credit(s)

Prerequisite(s):

WR 121Z or equivalent, or designated placement.

Course Description: WR122Z builds on concepts and processes emphasized in WR 121Z , engaging with inquiry, research, and argumentation in support of students' development as writers. The course focuses on composing and revising in research-based genres through the intentional use of rhetorical strategies. Students will find, evaluate, and interpret complex material, including lived experience; use this to frame and pursue their own research questions; and integrate material purposefully into their own compositions. Formerly offered as WR122.

Course Learning Outcomes:

- CLO#1: Apply rhetorical concepts to achieve writing goals within a given discourse community. (ILO: Communication)
- CLO#2: Locate, critically evaluate, synthesize, and integrate multiple perspectives from a variety of sources. (ILO: Critical Thinking)
- CLO#3: Engage in research and writing as recursive and inquiry-based processes, participating in the communal and conversational nature of academic discourses. (ILO: Communication)
- CLO#4: Develop strategies for generating, drafting, revising, and editing texts based on feedback and reflection.
- CLO#5: Reflect on knowledge and skills developed in this and other courses and potential transfer to future contexts. (ILO: Critical Thinking)

ACTI Code and Course Type
100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

WR 199 - Special Studies - Writing

Var. (1-3) Credit(s)**Prerequisite(s):**

Varies by course.

Course Description: Explores special topics in writing, including novel and journal writing as well as discipline-specific discourse conventions and professional preparedness. Course is repeatable.

Course Learning Outcomes:

CLO#1: Varies based on course focus.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

PER CREDIT: A required state minimum of (10) and a standard RCC delivery of (11) lecture hours per term, not to exceed (12) hours per term.

WR 227Z - Technical Writing**4 Credit(s)****Prerequisite(s):**

WR 121Z or designated placement, and BT168

Course Description: WR227Z introduces students to producing instructive, informative, and persuasive technical/professional documents aimed at well-defined and achievable outcomes. The course focuses on presenting information using rhetorically appropriate style, design, vocabulary, structure, and visuals. Students can expect to gather, read, and analyze information and to learn a variety of strategies for producing accessible, usable, reader-centered deliverable documents that are clear, concise, and ethical. Formerly offered as WR227.

Course Learning Outcomes:

CLO#1: Apply key rhetorical concepts through analyzing, designing, composing, and revising a variety of deliverable documents for technical/professional contexts.

CLO#2: Engage in project-based research, applying appropriate methods of inquiry for clearly defined purposes (e.g., user experience research and client/organization research).

CLO#3: Collaborate with various stakeholders to develop and apply flexible and effective strategies for managing projects.

CLO#4: Develop and adapt document design and composition strategies to meet the demands of diverse clients, organizations, and multicultural audiences. (ILO: Communication)

CLO#5: Examine and respond to individual and professional ethical responsibilities across organizational contexts.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

WR 241 - Imaginative Writing I

4 Credit(s)

Prerequisite(s):

WR 115 or designated placement

WR 115Q as required

Course Description: WR241 introduces students to the craft of imaginative writing, offering them opportunities to express themselves through literary mediums. Students will study models of short stories, poetry, personal memoirs, and do original work in each of these genres. Includes analysis and discussion of students' work.

Course Learning Outcomes:

CLO#1: Develop the craft of writing through everyday practice. (ILO: Communication)

CLO#2: Develop and write short fiction through assignments focusing on characterization, setting, plot, dialogue, and the elements of fiction.

CLO#3: Develop and write poetry through a variety of poetry assignments.

CLO#4: Evaluate and offer constructive feedback on other students' writings.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

WR 242 - Imaginative Writing II

4 Credit(s)

Prerequisite(s):

WR 241

Course Description: WR242 continues the study of imaginative writing, building on WR241 and offering students further opportunities to express themselves through literary mediums. Students will study models of short stories, poetry, personal memoirs, and do original work in each of these genres. Includes analysis and discussion of students' work.

Course Learning Outcomes:

CLO#1: Develop the craft of writing through everyday practice. (ILO: Communication)

CLO#2: Develop and write short fiction through assignments focusing on characterization, setting, plot, dialogue, and the elements of fiction.

CLO#3: Develop and write poetry through a variety of poetry assignments.

CLO#4: Be able to evaluate and offer constructive feedback on other students' writings.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

WR 243 - Imaginative Writing III**4 Credit(s)****Prerequisite(s):**

WR 242

Course Description: WR243 completes the year of imaginative writing, building on WR 241 and WR 242 and offering students further opportunities to express themselves through literary mediums. Students will study models of short stories, poetry, personal memoirs, and do original work in each of these genres. Includes analysis and discussion of students' work.

Course Learning Outcomes:

- CLO#1: Develop the craft of writing through everyday practice. (ILO: Communication)
- CLO#2: Develop and write short fiction through assignments focusing on characterization, setting, plot, dialogue, and the elements of fiction.
- CLO#3: Develop and write poetry through a variety of poetry assignments.
- CLO#4: Evaluate and offer constructive feedback on other students' writings.

ACTI Code and Course Type

100 Lower Division Collegiate

Length of Course:

A required state minimum of (40) and a standard RCC delivery of (44) lecture hours per term, not to exceed (48) hours per term.

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- **Debra Watson**
Director, Contract and Procurement; B.A., Science/Math, Portland State University, Portland, OR, National Science Foundation Teaching Scholar; M.A., Teaching, Science, Math and Technology, Lewis and Clark College, Portland, OR, Mary Stuart Rodgers Scholar; M.Ed., Educational Administration, Concordia University Master of Legal Studies (M.L.S.), Litigation, Washing University, St. Louis, MO; Professional Teacher License; Principal License; Notary Public
- **Jesse Watson**
Director, GED® and Pre-College Education
- **Melissa Weast**
Program Support Specialist III, Nursing; A.A.S., Criminal Administrative Management, Oregon Institute of Technology, Klamath Falls, OR
- **Randy Weber**
RCC President, President's Office; A.S., Health, Physical Education, Barton County Community College, Great Bend, KS; B.S., Sport Management, University of Kansas, Lawrence, KS; M.S.E., Sport Administration, University of Kansas, Lawrence, KS; Ed.D., Educational Leadership, Baker University, Baldwin, KS
- **Michelle Welch**
Instructional Systems Specialist, Outcomes and Assessments
- **Catherine Whitsel**
Administrative Assistant III, Admissions and Recruitment; B.S., Speech and Language Pathology, Northern Michigan University, Summa cum laude, Marquette, MI; M.S., Publishing, Pace University, New York, NY
- **Barbara Wicks**
Student Records Specialist, Enrollment Services; A.A.O.T., Rogue Community College, Grants Pass, OR; B.S., Environmental Studies, University of Oregon, Eugene, OR
- **Rick Williams**
Faculty, Humanities; B.A., Political Science, International Relations Emphasis, CSU Northridge, Northridge, CA; M.A., English, American Literature and Composition, Humboldt State, Arcata, CA; M.A., Religious Studies, University of Wales, Trinity Saint David, Lampeter, Wales, UK
- **Jodi Wilson**
Recruitment Manager, Human Resources
- **Sarah Wofford**
Accounting Specialist II, Business Office; A.G.S., Rogue Community College, Phi Theta Kappa, Grants Pass, OR; B.A., Marketing Management, Western Governors University, Salt Lake City, UT; Bursar
- **Angel Woods-Reuter**
Administrative Assistant III, Admissions and Recruitment; A.A.O.T., Rogue Community College, Phi Theta Kappa, Grants Pass, OR; A.G.S., Rogue Community College, Alpha Zeta Pi, Grants Pass, OR
- **Cody Woolley**
Transition Specialist, TRIO-EOC

- **Christina Wooten**
Faculty, Business and Office Technology; M.B.A., Business Administration, Jacksonville University, Jacksonville, FL; Ed.M., Education, University of Phoenix, Phoenix, AZ
- **Bernyne Wright**
Financial Aid Advisor, Financial Aid; A.A.S., Business-Accounting, Rogue Community College, Grants Pass, OR
- **Lisa Younker**
Human Resources Specialist, Human Resources; A.A.O.T., Art, Rogue Community College, Grants Pass, OR; B.A., Studio Art, Southern Oregon University, cum laude, Ashland, OR; B.A., Communication Studies, Southern Oregon University, Ashland, OR
- **Apphia Zink**
Faculty, Nursing

Adjunct Faculty

Rogue Community College values the contributions of its many adjunct faculty members who may serve as tutors, instructors, counselors, coordinators, or lab assistants.

The following are faculty who were contracted to teach part-time in 2024-25.

Debra Abarca	Trudy Hogg	Juan Santiago
Emily Adams	Matt Holben	Dennis Sauro
Patricia Ajemian	Jesse Holcomb	Sharon Schmidt
Catherine Allegretti	Emily Holgen	William Schmidt
Joshua Allphin	Stephen Holst	Janelle Scofield
Tiburcio Alvarez III	Taylor Holverson	Sarah Scott
Richard Amneus	Jared Hooper	Michael Sellers
Terra Anderson	Daniela Hopper	Bracken Sharp
Lorraine M Andresen	Kendall Houck	Manuel Sharp
Frank Armstrong	Eduardo Ibarra	Midge Shaw
Alfred Augustine	Martha Ibarra	Robert Shelman
Lane Augustson	James Inglehart	Paul Shipley
Patrick Bailey	Michael Jackson	Wyatt Small
Johnny Baker	Angela Jahn	Adrianne Smith
Brian Ballou	Erica Jameson	Amber Smith
Adam Barth	Wade Johnson	Christina Smith
David Barton	Christina Jones	Joshua Smith
Andrew Bates	Ian Jungers	Larry Smith
Maxey Batson	Jesse Kalman	Michael Smith
Jason Bauer	Elizaveta Katorcha	Jerry Snodgrass
Christopher Baumer	Frederick Katz	Joe Spurgeon
Gretchen Beasley	Jeremy Kekacs	Serena St. Clair
Nickolas Beiter	Ben Kennedy	Timothy Stacy
Jon Bennett	Erin Kerr	Serena Stanger
Denise Bents	Aaron Kersey	Ronald Stone
Glenn Berg	Nicole Kieffer	Randi Stuart
Richard Blake	Jesse Kiene	Bryan Studebaker
Julia Bloom	Christine Kiltz	Karen Sullivan
Richard Blum	Melissa Klise	Colby Taylor

Samantha Boehm
Shayla Bogart
Larry Bohn
Paul Boothroyd
Neva Bota
Lisa Bradshaw
Ashton Britton
Jackson Brown
Steven Buckland
Timothy Busald
Sage Bushman
Catriona Callies
Roger Cantwell
Kelsey Carlson
Susan Carr
Regina Castellon
Gloria Causey
Jamie Causey
Jessica Cavett
Woody Chambers
Gregory Chandler
Marie Chandler
Nicholas Christensen
Steve Clearman
Alicia Clements
Toni Clough
Loren Clupny
Robert Cogliser
Kathryn Cole
Kenneth Collins
Carrie Collonge
William Cort
Michael Cox
Allen Crawford
Sharon Crawford
Cody Creager
Kevin Culhane
Gabriel Darland
Corbin Davey
Sharon Davis
Jordan DeHarty
Hadassah DeJack
Randy Delonge
Michael Demello
Taneille Dendauw
Kelsey Dennis
Cameron Deupree
Joshua DiStefano
Crystal Dobson
George Doersch
Michael Doherty
Leslie Dopp
Peter Droesch
Kirstine Dunlap
Felicity Elworthy
Daphne Eschtruth Harrison
Martha Fabian-Krause

Jeremy Knight
Garrick Kosct
Thomas Kowalski
Joann Krausser
Ryan LaBonte
Paul Lamoreau
Catherine Larive
Samuel Lashley
Robin Lathrop
Collin Lee
Julia Lehnert
Waylon Lenk
Peter Lentz
Cynthia Levesque
Abigail Mace
Richard Martin
David Masters
David Matthews
Jessica McClain
Rene McKenzie
Marcia McLeod
Brenda McNellis
April McPherson
Rosario Medina
Marisela Mendoza
Kristi Mersino
Kyle Miller
Tamlynn Miller
Gregory Millick
Sandra Mitchell
Jasmine Mojarro
Misty Morningstar
Erin Moser
Barbara Mount
Audra Myerchin
Melissa Nash
Wade Nasholds
Ritwik Nath
Jeremy Nelson
Sarah Newman
Crystal Niedermeyer
Sara Nolan
Pamela Nordquist
Petra Nye
Fernando Orozco
Taylor Orton
Cassandra Osorio
Jeremy Ostrowicki
Joye Otto
Theresa Palanjian
Gregory Patch
Anuj Patel
Kenneth Paul
Aaron Pawol
Blake Pendergrass
David Penicook
Mallory Perez

Joanne Taylor
Aaron Thompson
Anna Thompson
Jahna Thompson
Ann Thompson-Hague
Franklyn Tosh
Scott Tuers
Curtis Ulrich
Peter Ulrich
Victoria VanDyke
Jason Vickoren
Eric Violante
Randall Wade
Susan Wagner
Andrew Walker
Tami Walz
Julie Wardle
Deelia Warner
Larina Warnock
Darrell Webb
Cindy Wedekind
James Welch
Richard Westensee
William Whiting
Drew Wilkerson
Kathy Willahan
Sienna Williams
Ryan Willits
Gavin Wilmott
Garfery Wilson II
Catherine Wilson
Linda Woods
Lakshmi Yadama
Rosalie Zderic
Steve Ziel
Theresa de Souza
Brandon Atkins
Maria Battrick
Debra Benson
Gulestan Bharucha
Benjamin Boyd
Jillease Brand
Jane Brockman
Benjamin Bryan
Genee Bull
Natasha Carbin
Galyn Carlile
Steven Carlino
Tiffany Clarkin
Ace Cranford
Chelsea Daugherty
Kaitlyn Dempsey
Jennifer Eufusia
Donna Fiore
Anne-Marie Franchini-Smith
Paula Geist
Kathryn Gronemyer

Megan Farnsworth
Michael Fazio
Mandi Feetham
Caleb Feldman
Maria Elena Fernandez
Rogelio Fernandez
Chase Ferraccioli
Benjamin Franklin
Justa Freeman
Kimberly Freeze
Sonya French
Kiersta Fricke-Gostnell
Rachael Gabrielle
Diane Gallas
Stephanie Garcia
Galen Garretson
Grier Gatlin
Susan Gebo
Francine Gentile
Frances George
David Gestoso
Dennis Gettman
Victor Gobel
Hayley Goerisch
Robert Goldenberg
Emma Gonzalez-Bencomo
Courtney Gordon
Jeffrey Gratias
Abigail Green
Christopher Griesemer
Cindy Griffis
Hugh Griffiths
Brandon Grissom
Emily Groseclose
Paul Gulrich
Ryan Haberman
Chelsea Hamblin
Jarydd Hammond
Evalyn Hansen
Tracy Hanson
Cynthia Hauser
Jennifer Haynes-Clark
Michelle Hays
Eugene Hebert
Trevor Heinsohn
Duane Henderson
Robert Hendrix
Anthony Herrera
Matthew Hilliker

Douglas Perkins
Sarah Peters
Christie Petty
Charles Phenix
Nicole Piller
Emily Pinkerton
Kendra Pinnell
Elissa Poillon
Robert Poll
Frederic Pool
Paul Porter
James Powell
Kimberly Pratt
Ashley Pritchett
Chanse Pryor
Juliana Quick
Adam Quinn
Kellie Quinn
Ishmael Quiroz
Travis Raber
Robert Raetz
Karen Ramorino
Ricardo Rangel-Botello
Kayla Rapet
Amanda Redmond
Elisa Reid
Desiree Remick
Linda Renfro
Richard Renfro
Jacob Ridgeway
London Robert
James Robertson
Dale Robinette
TaiLese Roeloffs
Joseph Roesler
Aaron Rogers
Charles Rogers
John Rogers
Candelaria Romero
Kyle Rosborg
Scott Ross
Barbara Rountree
Michele Royer
Brian Rozendal
Todd Rufener
Diana Ryder
Fred Saada
Josefina Samano
Scott Sanford

Frances Gunson
Liz Hardy
Holly Hertel
Joann Hoeber
Shelly Hohl
Natalie Holliday
Rosemarie Holub
Jennifer Jackson
Noah Jarvie
Jami Johnsen
Kelly Johnson
Shirley Johnson
Irene Kai
Lutz Kramer
Mickey Laney-Jarvis
Vincent Lasnik
Ellie Leonhardt
Joseph Longo
Paula Lynam
Dave McKeen
Eileen Micke-Johnson
Justin Miller
Rhonda Misner
Michelle Mitchell
Deborah Murphy
Rhonda Nowak
Travis Osborne
Mark Otto
Trysha Patryson
Karen Peterkin
Paula Peterson
Karen Pleasant
Jennifer Richards
Regina Richardson
Eveline Robinson
Heidi Saleska
John Salisbury
Moreland Smith
Beth Spears
Dorothy Swain
Charles Thomas
Michael Torguson
Ray Van Couvering
Christopher Wade
Britta Walker
Lynda Wilson
Mary Ann Woodman
Evgenia Zamorskaia
Martin Zottola

RCC Emeriti

The RCC Board of Education may grant president, vice president, dean or faculty emeritus status to retiring employees. Emeritus status is reserved to honor individual(s), at retirement, who have provided outstanding and distinguished service to the College, which means work that exceeds average, satisfactory performance in carrying out the routine responsibilities of his/her appointment and demonstrates an extraordinary impact on the College or the community.

The nomination process includes a nomination letter from the president or Board Chair before June 30th of the employee's retirement year. The title of emeritus may be awarded posthumously. The recommendation must be approved by a majority of the Board.

Peter Angstadt, Ph.D.
President Emeritus

Laura Ault
Faculty Emeritus, Business
Technology

Harvey Bennett
President Emeritus

D. Thomas Bradbeer
Dean Emeritus, Human
Resources and College
Advancement

Bill Broeffle
Faculty Emeritus

Jerry Bryan
Faculty Emeritus, Humanities

Leslie Bryan
Faculty Emeritus, Adult Basic
Education

Kathleen A. Burkey
Dean Emeritus, Redwood
Campus

Pedro Cabrera
Faculty Emeritus, Respiratory
Care

Sue Calkins
Faculty Emeritus, Adult Basic
Education

Jeannette Cappella
Faculty Emeritus, Language Arts

Galyn Carlile, Ph.D.
Dean Emeritus,
Instruction/Growth Initiatives

Ralph Henderson
Faculty Emeritus,
Instruction/Career and
Technical Education

Dorcas Herr
Faculty Emeritus,
Language Arts

Doc Holliday
Faculty Emeritus,
Mathematics

**Marilyn "Jeanne"
Howell**
Associate Dean
Emeritus, Instructional
Services

Robert Hutsell
Faculty Emeritus, Jobs
Program

Charlotte Hutt
Faculty Emeritus,
Mathematics

**Terrance Johnson,
Ph.D.**
Faculty Emeritus,
Science

**Cathy Kemper-Pelle,
Ph.D.**
President Emeritus

**Barbara "Bobbi"
Kidder**
Faculty Emeritus,
Humanities

Dennis Kimzey
Faculty Emeritus,
Mathematics

**Eleanor Marie Saunders
Mueller**
Faculty Emeritus, Business
Technology/Social Science/
History

Larry Mullaly
Director Emeritus,
Operations and Special
Projects

Robert Murphy
Faculty Emeritus, Social
Science

Sheri Muzzioli
Classified, Emeritus

Harold O'Connors, Ph.D.
Faculty Emeritus,
Respiratory Care;
Coordinator, Academic
Research and Assessment

Mary O'Kief
Faculty Emeritus, Grants
and Planning Coordinator

Sue Orris
Faculty Emeritus,
Counseling

Mollie Owens
Faculty Emeritus,
Humanities

Walt Padgett
Faculty Emeritus, Art

Cyndy Patterson
Faculty Emeritus, Computer
Science

Carolyn Chancler
Faculty Emeritus, Adult Basic
Education

Rex Chapman
Faculty Emeritus, Business and
Office Technology

Margaret Cunningham
Faculty Emeritus, Academic
Skills

Kori Ebenhack
Vice President Emeritus, Student
Affairs

Steven Flannery
Faculty Emeritus, Academic
Skills

Stephen Foster
Faculty Emeritus,
Manufacturing/Mechatronics

David Fuller, Ph.D.
Faculty Emeritus, Science

Gary Gates
Faculty Emeritus, Science

Francine Gentile
Faculty Emeritus, Social
Science/Human Services

Linda Goodyear-Stevenson
Faculty Emeritus,
Developmental Studies and
Humanities

Wayne Grinolds
Faculty Emeritus

Tenison Haley
Dean Emeritus

Sue Hall
Faculty Emeritus, Nursing

Roger Harding
Faculty Emeritus, Small
Business Management

Richard Harms
Faculty Emeritus, Developmental
Studies

Alex Kozlowski
Faculty Emeritus,
Individualized Career
Training

Lutz Kramer
Faculty Emeritus,
Humanities

Patti Kramer
Faculty Emeritus,
Academic Skills; High
School Outreach
Coordinator

Kathy Krauss, Ph.D.
Faculty Emeritus,
Humanities

Michael Laam
Associate Dean
Emeritus, Instruction

B.C. Lamb
Faculty Emeritus,
Business Technology

Eric Larson
Dean Emeritus

Gaia Layser
Faculty Emeritus,
Counselor

Rick Levine
President Emeritus

John Lopez
Associate Dean
Emeritus, Instruction

Cheryl Markwell
Vice President Emeritus,
Instruction

Greg Marton
Faculty Emeritus, Social
Science

Barb McAuley
Classified, Emeritus

Larry McLane
Faculty Emeritus,
Motorcycle Technology

Henry Pete
President Emeritus

Mary Pierce
Faculty Emeritus,
Reference and Instruction
Librarian

Bonnie Reeg
Faculty Emeritus, Disability
Services/Tutoring Center/
Academic Skills

Linda Renfro
Dean Emeritus, Instruction

Wyatt Rosborough
Faculty Emeritus

John Salinas
Faculty Emeritus, Science

Wanda Sherman

Mary Slater
Faculty Emeritus

Curtis L. Sommerfeld
Vice President, Emeritus

Lori Sours
Faculty Emeritus, Academic
Success

Serena St. Clair
Faculty Emeritus

Sylvia Thomas
Faculty Emeritus,
Counseling

Greig Thomson
Faculty Emeritus, Human
Services/Social Science

Jim Van Brunt
Faculty Emeritus, Science

Laurie Van Riper
Faculty Emeritus, Adult
Basic Education

Cessa Vichi
Classified Emeritus, Library
Services

Cynthia Hauser
Associate Dean Emeritus,
Instruction

Rene McKenzie, Ph.D.
Director Emeritus,
Student Engagement

Randy Wade, Ph.D.
Faculty Emeritus, Business
Technology

Lee Merritt
Dean Emeritus

Linda Wagner
Faculty Emeritus, Nursing

Marion Miller
Faculty Emeritus,
Business and Office
Technology

Dottie Walters
Faculty Emeritus

Phil Wickham
Faculty Emeritus

Tom Miller
Faculty Emeritus, Library

Billie Miracle
Faculty Emeritus, Art

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