

# Rogue Community College Catalog 2019-20



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

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At the time of printing this catalog, several policies and procedures were under review due to the coming implementation of a new RCC computer information system. Please visit the RCC website for the most up-to-date information. Changes to this catalog will be posted in the appendix to the online catalog under "Errata" at [rougecc.edu/catalog](http://rougecc.edu/catalog).



# Introduction

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## Rogue Community College District

### Redwood Campus

3345 Redwood Hwy.  
Grants Pass, OR 97527  
541-956-7500  
Oregon Telecom Relay Service, 711

### Small Business Development Center

Historic City Hall  
214 S.W. Fourth St.  
Grants Pass, OR 97526  
541-956-7494

### Esther Bristol Education Center

350 S.W. H St.  
Grants Pass, OR 97526

### Illinois Valley Business Entrepreneurial Center

Kerby Belt Building  
24353 Redwood Hwy.  
Kerby, OR 97531  
541-956-7275

### Illinois Valley Learning Center

Kerby Belt Building  
24353 Redwood Hwy.  
Kerby, OR 97531  
541-956-7455

### Innovation Hub

350 S.W. H St.  
Grants Pass, OR 97526

### Redwood Campus GED<sup>®</sup> Learning Center and Adult Basic Skills (ABS)

K Building  
3345 Redwood Hwy.  
Grants Pass, OR 97527  
541-956-7253

### Riverside Campus

114 S. Bartlett St. (mailing)  
Medford, OR 97501  
541-245-7500  
Oregon Telecom Relay Service, 711

### Riverside Campus buildings:

#### A Building

202 S. Riverside Ave.

#### B Building

227 E. Ninth St.

#### C Building

130 E. 8th St.

#### Medford Library

205 S. Central Ave

#### G Building

117 S. Central Ave.

#### RCC/SOU Higher Education Center

101 S. Bartlett St.  
541-552-8100

#### Riverside Campus Learning Center

G Building  
117 S. Central Ave.  
Medford, OR 97501  
541-245-7701

### Table Rock Campus

7800 Pacific Ave.  
White City, OR 97503  
541-245-7500  
Oregon Telecom Relay Service, 711

### High Technology Center

7932 Pacific Ave.,  
White City, OR 97503

### Workforce Training Center

at Table Rock Campus  
541-245-7900  
(800) 460-6766

### Table Rock Campus Learning Resource Center

at Table Rock Campus  
541-245-7820

### RCC/Fire District 3 Fire Science Center

8383 Agate Rd.,  
White City, OR 97503



# 2019-2020 Academic Calendar

	2019 Summer	2019 Fall	2020 Winter	2020 Spring
Veteran/Qualified dependents registration <sup>1</sup>	May 24	May 24	Nov. 22	Feb. 28
Priority registration <sup>2</sup>	May 28	May 28	Nov. 25	Mar. 2
New student/open registration <sup>2</sup>	June 3	June 3	Dec. 3	Mar. 6
Fall In-service		Sep. 17		
New student Welcome Day		Sep. 18		
<b>Standard term begins<sup>3</sup></b>	<b>July 8</b>	<b>Sep. 23</b>	<b>Jan. 6</b>	<b>Mar. 30</b>
Foundation scholarship applications available		Nov. 1		
Foundation scholarship early bird deadline			Feb. 15	
Graduation application deadline <sup>4</sup>			Feb. 15	
Foundation scholarship application deadline			Mar. 1	
Initial refund/stipend	July 18	Oct. 4	Jan. 17	Apr. 10
Honors night				Apr. 17
Spring In-service				May 8
Federal Direct Loan application deadline	Aug. 22	Dec. 2	Mar. 13	June 5
<b>Standard term ends</b>	<b>Aug. 29</b>	<b>Dec. 6</b>	<b>March 20</b>	<b>June 12</b>
Commencement				June 13
Standard break between terms (no classes)	Sep. 2 - 20	Dec. 9 - Jan. 3	Mar. 23 - 27	June 15 - July 3

## The college will be closed on the following dates:

July 4, 2019: Independence Day

**All Fridays** July 5, 2019 - September 6, 2019

September 2, 2019: Labor Day

November 11, 2019: Veteran's Day

November 28 – 29, 2019: Thanksgiving

December 23 – 31, 2019: Winter Closure

January 1, 2020: New Year's Day

January 20, 2020: Martin Luther King Jr. Day

February 17, 2020: President's Day

May 8, 2020: In-service

May 25, 2020: Memorial Day (observed)

Please see term calendars for detailed dates regarding schedule changes, payment deadlines, refund dates, and grading deadlines.

<sup>1</sup> House Bill 2565 allows an active member of the Armed Forces of the United States; a veteran of the Armed Forces of the United States; or a student who receives veterans' educational benefits as a federally qualified dependent priority registration over nonqualified students.

<sup>2</sup> Advising is required before registering for credit classes

<sup>3</sup> Check your schedule. Actual course dates may vary.

<sup>4</sup> Deadline for students graduating at the end of spring or summer term. Visit [www.roguecc.edu/Commencement/ApplyingforGraduation.asp](http://www.roguecc.edu/Commencement/ApplyingforGraduation.asp).

**Dates are subject to change. Check [www.roguecc.edu/Calendar/Academic/](http://www.roguecc.edu/Calendar/Academic/) for current information.**



## 2017-2020 STRATEGIC PLAN

### Mission

Rogue Community College provides quality learning opportunities for students to achieve their goals and supports the vitality of our communities.

### Vision

Rogue Community College is a premier learning college that transforms, strengthens and inspires.

### Values

**Integrity** requires us, as an institution and individuals, to be transparent, ethical and accountable.

**Collaboration** promotes an agile, responsive culture to creatively address the aspirations and needs of our communities.

**Inclusion** creates a compassionate and safe environment that views all individuals and ideas fairly.

**Stewardship** commits us to responsible and thoughtful guardianship of our human, economic, environmental and cultural resources.

**Courage** frees the institution to find and pursue the best path in support of student learning and Rogue excellence.

#### 1. Access to Educational Opportunities

**Objective 1: Improve access to educational and support systems for current and prospective students.** Make entry to RCC a smoother transition for all students. Make college support systems more student-friendly, including course entry requirements and prerequisites.

**Objective 2: Increase participation of under-served populations in our programs.** College enrollments do not reflect under-served populations at the same rate as they occur in the community.

**Objective 3: Create collaborative learning spaces that connect students to other students, faculty, staff and local employers.** These are spaces where students can learn together, with college faculty and staff, or with local employers.

#### 2. Student Success

**Objective 4: Construct guided educational pathways.** Guided pathways are highly structured, educationally logical program maps.

**Objective 5: Increase effective student engagement strategies.** Student engagement is the degree of attention, curiosity, optimism, interest and passion that students demonstrate when they are learning. It influences the level of motivation they have to learn and progress in their education.

**Objective 6: Decrease student time to completion while maintaining quality education.** The longer it takes students to finish a certificate or degree, the more likely they are to drop out of college. This has a negative impact on their earning power in the workforce.

#### 3. Collaborative Partnerships

**Objective 7: Increase alignment between college programs and local employers.** Make sure that programs lead to actual jobs in the Rogue Valley.

**Objective 8: Leverage local partnerships to enhance college strategic goals.** Find ways to share resources and reduce costs.

**Objective 9: Maximize cross-divisional strategies to solve problems creatively.** Work together for the success of our students.

## 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 Small Business Development Center and Esther

Bristol Education Center, Illinois Valley Business Entrepreneurial and Illinois Valley Learning centers in Josephine County. 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 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 liaison between the colleges, state legislators, and partners on issues from funding to legislative policy, special studies and reports.

## Accreditation

[www.roguecc.edu/Accreditation](http://www.roguecc.edu/Accreditation)

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 on the basis of 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 with legally protected disabilities.

## Budget

For information, visit [www.roguecc.edu/Budget](http://www.roguecc.edu/Budget).

## 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 [web.roguecc.edu/risk-management/campus-security](http://web.roguecc.edu/risk-management/campus-security).

## Closures

If inclement weather conditions or other hazardous or emergency conditions require closure of one or more campuses, announcements will be made over local radio and television stations starting at 6 a.m. for day classes and 4 p.m. for evening classes. Information is also sent out to students using the emergency notification system, and to students and the public through postings on [www.roguecc.edu](http://www.roguecc.edu) and RCC social media accounts.

To learn more about RCC alerts, visit [www.roguecc.edu/alerts](http://www.roguecc.edu/alerts).

## Consumer information

All consumer information is available online at [web.roguecc.edu/about-rcc/consumer-information](http://web.roguecc.edu/about-rcc/consumer-information).

## Electronic communication

RCC primarily communicates with students via email. When applying for admission an RCC email account will be created. Check regularly for messages from the college on your RCC email.

## Foundation

[www.RCCFoundation.org](http://www.RCCFoundation.org)

H Building, Redwood Campus,  
541-956-7327

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 \$10 million in assets and supports the college through scholarships and direct funding to programs.

## Faculty and staff

[www.roguecc.edu/Directory](http://www.roguecc.edu/Directory)

RCC employs approximately 300 regular employees: 46 exempt staff, 83 full-time faculty, 155 full-time classified, and 16 part-time classified staff. In addition, the college employs more than 532 adjunct faculty.

## 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, regardless of social position.

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 addition, no RCC staff member shall ask about any student's immigration status or that of a student's family members.

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

- Bilingual counselors/advisors with whom students share a common identity.
- Legal counsel.
- A means to report hate incidences.

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 2018-19 school year, approximately 14,500 students enrolled at RCC. That number represents a full-time equivalent (FTE) of 4,184.40 students.



# Frequently called numbers

[www.roguecc.edu/Directory](http://www.roguecc.edu/Directory)

New to RCC? Go to [www.roguecc.edu/Students/start.asp](http://www.roguecc.edu/Students/start.asp) or [www.roguecc.edu](http://www.roguecc.edu) and click on "New Students."

	Redwood	Riverside	Table Rock
Main Number .....	541-956-7500 .....	541-245-7500.....	541-245-7500
Admission (Recruitment/Campus Tours) .....	541-956-7217 .....	541-956-7217.....	541-956-7217
Adult Basic Skills (ABE/GED/ESL) .....	541-956-7253 .....	541-245-7701.....	541-245-7820
Advising .....	541-956-7192 .....	541-245-7552.....	541-245-7863
Bookstore (Textbooks/Student Store) .....	541-956-7160 .....	541-245-7591.....	541-245-7870
Career and Student Employment .....	541-956-7323 .....	541-245-7538.....	541-245-7538
Community Education .....	541-956-7303 .....	541-956-7303.....	541-956-7303
Computer Labs .....	541-956-7424 .....	541-245-7534.....	541-245-7990
Counseling.....	541-956-7192 .....	541-245-7552.....	541-245-7863
Disability Services .....	541-956-7337**.....	541-245-7537** .....	541-245-7537**
Driver Training (Truck-CDL, High School and Adult).....	541-956-7116 .....	541-956-7116 .....	541-956-7116
Enrollment Services.....	541-956-7427 .....	541-956-7427.....	541-956-7427
Library .....	541-956-7152 .....	541-245-7512.....	541-245-7820
Placement Assessment .....	541-956-7112 .....	541-245-7112.....	541-245-7112
Registration Help .....	RCS@roguecc.edu .....	RCS@roguecc.edu.....	RCS@roguecc.edu
Rogue Central (Financial Aid, Registration, Cashier) .....	RCS@roguecc.edu .....	RCS@roguecc.edu.....	RCS@roguecc.edu
.....	541-956-7501 .....	541-956-7501.....	541-956-7501
Testing Center.....	541-956-7340 .....	541-245-7777.....	541-245-7820
Transcripts, order info .....	Ext. 3188.....	Ext. 3188 .....	Ext. 3188
TRiO Rogue Opportunity Center.....	541-956-7097 .....	541-245-7699.....	541-245-7699
Tutoring Centers .....	541-956-7340 .....	541-245-7213.....	541-245-7820
Veterans Resources .....	541-956-7288 .....	541-245-7738.....	541-245-7805

## Social media at RCC

Stay in touch with Rogue Community College through the following services:



[www.facebook.com/RogueCommunityCollege/](http://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.



[www.instagram.com/roguecommunitycollege/](http://www.instagram.com/roguecommunitycollege/)  
Instagram is a mobile social media where users share photos and videos publicly or privately. Follow @roguecommunitycollege for current RCC images and video.



[www.twitter.com/rogueCC](http://www.twitter.com/rogueCC)  
A social broadcasting service that allows users to communicate through short text-based posts or "tweets" of up to 280 characters. Find us @RogueCC.



Rogue Connect. A campus app for RCC students to network, learn, and keep up on campus activities. Available at the Apple Store, Google Play, or <http://roguecc.edu/campusapp.com>.



Wordpress Blog: <http://roguecommunity.net>  
Rogue Community is a news and student stories blog built to engage with the community of RCC and beyond.



[www.youtube.com/RogueCCVideos](http://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.

Toll free outside Grants Pass/Medford/White City calling areas, 800-411-6508.

\*Ext. = Enter extension number after calling main number.

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

RCC website ..... [www.roguecc.edu](http://www.roguecc.edu).

The RCC Catalog is a publication of Rogue Community College. Every effort is made to ensure accuracy at the time of printing; 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 stated policy of the RCC Board of Education.

The catalog is produced by the Marketing Department. For information, call Carmen Sumner, assistant director of Marketing, 541-956-7114.



# Admissions and Registration

## Get Ready to start college

1. Get admitted at [www.roguecc.edu/admissions](http://www.roguecc.edu/admissions). You will begin receiving important emails from RCC.
2. Complete the placement process at [www.roguecc.edu/placement-process](http://www.roguecc.edu/placement-process) or send official college transcripts to: Rogue Community College, Attn: Rogue Central, 117 S. Central Ave., Medford, OR 97501
3. Apply for financial aid at [www.fafsa.gov](http://www.fafsa.gov). RCC's school code is 010071.
4. Complete your New Student Orientation (NSO). Log in to your myRogue account, select New Student Orientation, and complete the NSO before you attend classes.
5. Explore the programs that RCC has to offer at [www.roguecc.edu/academics](http://www.roguecc.edu/academics).

## Get Set to register

6. Attend an Advising and Registration Clinic to learn how to prepare, plan and register for your courses. View the schedule and sign up at: <https://web.roguecc.edu/counseling/advising-registration-clinics-schedule>.
7. Log in at [www.roguecc.edu/myRogue](http://www.roguecc.edu/myRogue). Register for the classes on your "program planner."
8. Pay tuition and fees online or check your financial aid status at [www.roguecc.edu/myRogue](http://www.roguecc.edu/myRogue).
9. Buy textbooks and supplies at any RCC bookstore or [www.roguecc.edu/Bookstore](http://www.roguecc.edu/Bookstore).
10. Get your RCC student body card from Student Services. You'll need to show a photo ID and a copy of your current RCC schedule.

## Go to class

11. Need a campus map? Visit [www.roguecc.edu/Maps](http://www.roguecc.edu/Maps).
12. Students who do not attend classes during the first week of the term will be dropped unless the absence has been approved by the instructor.

### NOTES:

- Students with a disability may request placement test or academic accommodations by calling 541-245-7537 at the Riverside Campus in Medford or 541-956-7337 at the Redwood Campus in Grants Pass.
- If you want to take a class for personal enrichment, but not for credit, visit [www.roguecc.edu/CommunityEd](http://www.roguecc.edu/CommunityEd).

### Need help? Contact Student Services –

Redwood Campus, 3345 Redwood Hwy., Grants Pass • 541-956-7192.

Riverside Campus, 117 S. Central Avenue, Medford • 541-245-7552.

Table Rock Campus, 7800 Pacific Ave., White City • 541-245-7863.

## Check your email often

### RCC communicates with students primarily by email.

When applying for admission, provide a valid private email address, and check regularly for messages from the college.

## Admission 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 page 8 "Underage Enrollment."

Questions may be directed to the Admission Coaches at [recruitment@roguecc.edu](mailto:recruitment@roguecc.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.

## Limited entry programs

Apprenticeship, Dental Assistant, Emergency Medical Services, Human Services, Massage Therapy, Medical Administrative Assistant, Medical Assistant, Nursing, Paramedicine, Pharmacy Technician, Phlebotomy, Practical Nursing, and Sterile Processing Technician have their own applications and admissions requirements. Enrollment is limited and admission is not guaranteed. See the "Programs of Study" 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 admission applications are available online: [www.roguecc.edu/Students/start.asp](http://www.roguecc.edu/Students/start.asp).

- All applicants must be proficient in the English language with a score of 490 or greater on the Test of English as a Foreign Language (TOEFL), or ELS proficiency level 109, or equivalent.
- International students are required to take a placement test and attend orientation.
- Students must be enrolled full-time (12 or more credits) and successfully complete 12 or more credits each term to remain in good standing with the U.S. Bureau of Immigration and Customs Enforcement.

Students will be notified of their admission status by mail after all of the application materials are received and verified. For more information about the international student admission process, contact the Admission Coaches at [recruitment@roguecc.edu](mailto:recruitment@roguecc.edu).



## Underage enrollment standards for credit classes

[www.roguecc.edu/admissions/](http://www.roguecc.edu/admissions/)

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.

## Advising and Registration clinics

These one-hour clinics provide newer students with the opportunity to learn how to prepare, plan and register for next term's courses and to continue these practices throughout the college experience.

In a group setting of up to 18, students learn the ins and outs of self-advising and registration and get answers from professional advisors.

For more information, and to register for a clinic, contact the Counseling and Advising Department at:

- RVC in Medford: 541-245-7552.
- RWC in Grants Pass: 541-956-7192.

## First Term Course-Placement

[www.roguecc.edu/placement-process](http://www.roguecc.edu/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 five (5) 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 ([www.roguecc.edu/PlacementAssessment](http://www.roguecc.edu/PlacementAssessment)).

For more information about your placement process options, contact the Admission Coaches at [recruitment@roguecc.edu](mailto:recruitment@roguecc.edu).

## Placement Assessment

[www.roguecc.edu/Assessment](http://www.roguecc.edu/Assessment)

If you are unable to be placed via the multiple options, RCC provides a placement assessment called Accuplacer NextGen. Students take an untimed, user-friendly computerized assessment. RCC offers a free placement assessment at Riverside Campus (Medford) and Redwood Campus (Grants Pass).

To request a placement test with accommodations due to a disability, contact Disability Services:

- Redwood Campus, 541-956-7337, or Oregon Telecom Relay Service, 711.
- Riverside Campus, 541-245-7537, or Oregon Telecom Relay Service, 711.

NOTE: Students receiving financial aid are limited to taking the required and elective courses in the graduation guide for their declared major.

The following classes have no prerequisites and do not require a placement test:

- ART115 Basic Design (Composition).
- ART116 Basic Design (Color Theory).
- ART131 Introduction to Drawing (Value).
- ART132 Introduction to Drawing (Line).
- ART133 Introduction to Drawing (Mixed Media).
- ART222 Graphic Design (Typography).
- ART234 Figure Drawing I.
- ART237 Illustration (Black and White Media).
- ART238 Illustration (Color Media).
- ART239 Illustration (Perspective).
- ART253 Ceramics I.
- ART257 Beg. Jewelry and Metalsmithing.
- ART276 Sculpture I.
- ART281 Painting I.
- ART287 Aqueous Media.
- ART294 Watercolor I.
- CS60 PC Basics (Introductory computer

class).

- HE112 First Aid.
- HE261 CPR/Basic Life Support Provider.
- MUS131 Class Piano I.
- MUS135 Beginning Hand Drums.
- MUS137 Group Guitar – Beginning.
- PE185 Physical Education (activity course).
- TA141 Fundamentals of Acting.
- TA144 Improvisational Theater.

NOTE: Students receiving financial aid are limited to taking the required and elective courses in the graduation guide for their declared major.

## Transfer credit

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.
- Order official transcripts from **all** previous colleges.
- Declare a major at RCC.
- 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" on page 13.

## New Student Orientation

New Student Orientation (NSO) is designed to prepare students to be successful at Rogue Community College by introducing them to a variety of support services. Topics include degrees and certificates, paying for college, student resources and more.

NSO communication provides timely messaging via email, newsletters and on monitors throughout campus with events, deadlines and opportunities.

The online NSO is required for every new student. It takes approximately 15 minutes to



complete and can be done at an individualized pace. Log in to myRogue, then select "New Student Orientation."

## Freshman Experience

For students who are new to the college environment and first-time freshmen, and/or have not yet decided on a major, there is a combination of classes designed to help them get started successfully in an academic career. By the end of this series they will understand what educational goals are and the skills required to complete them. Each of the following courses will count toward general education and/or elective requirements:

- Appropriate math course each term.
- Appropriate writing course each term.
- CG100 College Success and Survival.
- RD120 Critical Reading and Thinking.
- CG140, CG150 or CG155 Career Development Course.
- SP115 Introduction to Intercultural Communication.
- CS120 Concepts in Computing I.
- PSY101 Psychology of Human Relations.

See an advisor for details.

### Freshman Experience program learning outcomes

1. Financial Literacy: RCC students will be able to manage and understand the relationship between income, expenses, credit and debt over time.
2. Social Skills/Soft Skills: RCC students will adapt to and follow the social structures, formal rules and cultural norms of college.
3. Connection: RCC students will be able to recognize the importance of developing and maintaining relationships with people and resources.
4. Study Skills: RCC students will commit and persist in completing their goals through a purposeful selection of tools and strategies that work for them.
5. Persistence: RCC students will commit to and persist along their chosen academic path through a purposeful and self-aware selection of tools and strategies.
6. Navigate Systems: RCC students will identify and use key systems in the appropriate order at the appropriate time.
7. Major Secure: RCC students will purposefully pursue a career based on interests, abilities and career information.

### 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	Friday, week one of the term; Thursday, week one for summer 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

8. Awareness of Cultural Diversity: RCC students will respectfully engage with a variety of ideas, viewpoints and differences in spite of their implicit bias.

## Registration

See the online registration schedule for priority registration times and additional information about registration options. Rogue Central, RCS@rogucecc.edu answers questions about the registration process.

Credit students register using the online registration system at [www.rogucecc.edu/myRogue](http://www.rogucecc.edu/myRogue).

Students should register carefully as they are liable for tuition/fees for any registered courses. Students must unregister themselves online, or in person at Rogue Central if they do not plan to attend. Only those who have paid in full are eligible for priority registration.

For special registration arrangements due to a disability, contact Disability Services:

- Redwood Campus, 541-956-7337, or Oregon Telecom Relay Service, 711.
- Riverside Campus, 541-245-7537, or Oregon Telecom Relay Service, 711.

### 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 email from [myRogueTeam@rogucecc.edu](mailto:myRogueTeam@rogucecc.edu).

### Logging onto myRogue

1. Visit the RCC home page at [www.rogucecc.edu](http://www.rogucecc.edu).
2. Select myRogue.
3. Log in with firstname.lastname and password that was created when completing the online admissions application.
4. To reset password, click the "Forgot Your Password?" link, and follow the directions.

5. For other issues contact Rogue Central at [RCS@rogucecc.edu](mailto:RCS@rogucecc.edu).

### Change of registration

Schedule changes may be made at [www.rogucecc.edu/myRogue](http://www.rogucecc.edu/myRogue).

### Adding a class

Classes may be added by registering online during registration periods through the first week of the term; instructor's permission is required thereafter. Use the instructor permission code on the student resources page for registration in closed or waitlisted classes. Sharing the permission code with another student or registration with a code not provided to the student directly by a faculty member will result in an automatic drop from the class and possible disciplinary action.

NOTE: This deadline does not apply to Continuing Education or other classes that may begin at irregular times during the term.

### Non-attendance drop

For term-length credit classes, students must attend each first-class session 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 for 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

[www.rogucecc.edu/Search/PhoneNumbers](http://www.rogucecc.edu/Search/PhoneNumbers).

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 unregister from classes. Students need to officially drop or withdraw from classes that begin at irregular intervals.



## Official Unregister or Withdrawal from classes

- Students may unregister from a term-length class through Friday of the first week of the term; Thursday week one for summer term until 11:59 p.m. Tuition is refunded in full (and financial aid adjusted if necessary) when a student unregisters from a class. There is no notation of the unregistered class on the student's grade report or transcript.
- 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 unregister or withdraw using internet registration. The official withdraw date is the day a student withdraws online. For answers to questions or other help, visit Rogue Central on any RCC campus or email [RCS@roguecc.edu](mailto:RCS@roguecc.edu). Students who stop attending a class, but do not officially unregister or withdraw will receive a grade for the course that will become a permanent entry on their academic records.

## Unofficial Drop or Withdrawal from classes

Students who stop attending but do not officially unregister 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 [www.roguecc.edu/myRogue](http://www.roguecc.edu/myRogue).

## Tuition and fees

The Rogue Community College Board of Education establishes tuition and fees. Current tuition and fee rates are posted at [www.roguecc.edu/tuition](http://www.roguecc.edu/tuition).

Tuition is based on a per credit rate and determination of residency. (See "Residency policy.") Tuition rates, fees and refunds are subject to change; current information is published on the RCC website. Search for "tuition rates." Tuition and fees for auditing a

course are the same as normal tuition fees.

Following are the tuition rates and fees for 2019-20:

- Oregon residents – \$112 per credit hour.
- Out-of-state residents – \$137 per credit hour.
- International students – \$375 per credit hour.
- Technology fee – \$7 per credit/\$7 per non-credit class.
- College services fee – \$12 per credit up to 15 credits.
- Distance learning fee – \$10 per credit per class up to 4 credits.
- GED instruction – \$65 per term.
- GED test fee – 4 tests, \$38 each = \$152.
- Non-credit classes – tuition varies by class or workshop and is published each term. A \$7 technology fee may be assessed in addition to the workshop or class fee.
- Late registration: maximum of \$45.
- Late payment fee – 5 percent of tuition or \$5 whichever is higher.
- Installment fee – \$25.
- Returned check fee – \$25.

## Residency Tuition

A student's residence determines the tuition he or she will pay for classes. The college has three tuition schedules: in-state, out-of-state, and international. Documentation may be required to establish residency. Items that may be considered valid proof of residency include an Oregon drivers 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 Director of Enrollment Services.

### In-state

A student may register as an in-state student 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.
- Was honorably discharged or separated from active duty with the military service within the past three years (See page 30 for details).
- Is a resident of Oregon who left the state for summer employment.

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

### Out-of-state

Students who list their permanent addresses outside of Oregon 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.

### International

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

### Payment deadlines

Payment policy is under review at the time this document was published and is subject to change.

Payment dates are indicated online at [www.roguecc.edu/calendar/academics](http://www.roguecc.edu/calendar/academics) 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 whose tuition is paid by an agency need a voucher or purchase order on file before the payment deadline.

There is no automatic drop for non-payment for current term charges (see "Consequences of non-payment" page 11). Students will be responsible for all tuition charges unless classes are dropped by the student by the second Wednesday of the term for term-length classes.

### Payment methods

- Cash – U.S. funds only.
- Checks – Personal checks, travelers checks, cashiers checks and money orders are accepted for the amount of purchase only. Please make checks payable to RCC. Print the student's name 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 at [www.roguecc.edu/myRogue](http://www.roguecc.edu/myRogue). RCC student ID and password are required.



- Agency or company payments – Arrangements for payment by an agency or company must be pre-approved by the college. Students must take all payment vouchers or purchase orders for tuition, fees, books, and supplies to Rogue Central. Students are responsible for ensuring that a payment voucher or purchase order is on file by the payment-due date. If payment is not received from the agency, the student is responsible for the full amount.

### Cashiers (Rogue Central)

Payments may be made at the following Rogue Central locations:

- Student Services Building, Redwood Campus, Grants Pass.
- G Building, Riverside Campus, Medford.
- Room 187, Table Rock Campus, White City (near the west entrance).

Hours generally are 8 a.m. to 5 p.m. Monday through Friday, or Monday through Thursday in summer term.

Payment drop boxes are also available on the second floor of G Building in the Student Lounge, Riverside Campus, outside the Student Services Building, Redwood Campus, and outside Rogue Central, Table Rock Campus.

For online payments go to [www.roguecc.edu/account](http://www.roguecc.edu/account).

### Student installment plan

[www.roguecc.edu/Installment](http://www.roguecc.edu/Installment)

Student installment plan was under review at the time this document was published and is subject to change.

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 at [www.roguecc.edu/Calendar/academic](http://www.roguecc.edu/Calendar/academic).

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 at [www.roguecc.edu/myRogue](http://www.roguecc.edu/myRogue).

Request more information via email: [RCS@roguecc.edu](mailto:RCS@roguecc.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, grade reports, official transcripts, and diplomas may be withheld until such time that the indebtedness is paid in full.

### 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 unregistered within the refund deadlines as specified above. No refunds are issued for withdrawals.

### Refund Policy for Noncredit classes

Full payment for non-credit classes (e.g. community education, workforce development, and community education sponsored events) is due at the time of registration and cannot be refunded once registration is completed. 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 Continuing Education website) and returning to the Continuing Education & Workforce Development Office at Redwood Campus, building A for committee review.

See the RCC Continuing Education website for refund policies on non-credit courses: [www.roguecc.edu/ContinuingEducation](http://www.roguecc.edu/ContinuingEducation).

### 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 this policy may submit a Student Record Appeal to Rogue Central, available at [www.roguecc.edu/Enrollment/forms](http://www.roguecc.edu/Enrollment/forms).

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

[www.roguecc.edu/Enrollment/SASP](http://www.roguecc.edu/Enrollment/SASP)

This policy was under review at the time of printing and is subject to change. Please go to: [www.roguecc.edu/Enrollment/SASP](http://www.roguecc.edu/Enrollment/SASP)

## Choosing a major

RCC advisors are available to help undecided students identify a major that will support their academic and career goals.

For the initial declaration of major, please consider the following:

Certificate programs and Associate of Applied Science (A.A.S.) degrees prepare students for specific careers and do not include general education requirements for transfer to a four-year college or university.

Students who plan to transfer to a four-year college or university in Oregon, but are undecided about a specific major or focus, should declare the Associate of Arts Oregon Transfer degree (A.A.O.T.).

Associate of Science (A.S.) degrees are focused in a specific area, are articulated with one or more Oregon universities, and allow students to transfer to those institutions.

A student pursuing a certificate or degree that is "limited entry," including Dental Assistant, EMS/Paramedicine, Human Services, Massage Therapy, Medical Administrative Assistant, Medical Assistant, Medical Coding Specialist, Nursing, Pharmacy Technician, Phlebotomy, Practical Nursing, and Sterile Processing Technician should list Associate of General Studies (A.G.S.) as the first major before being admitted to the program, and the limited entry program as the second major. An A.G.S. degree may also be customized to be the first two years of a four-year degree and allows elective credits to be targeted toward the intended bachelor's degree.

Academic department faculty advisors can help students identify career goals within their declared majors and can provide information on local vocational trends in their fields.

At registration each term, students are required to verify that the major(s) in their academic record accurately represents the degree or certificate they are pursuing.

## Course grading

### Program courses

The quality of student work in most core program courses is measured by a system of grades

Example student transcript			
Course	Credit hours	Grade	Grade points
Biology and lab	4	A	16
Figure drawing	3	C	6
Mathematics	3	F	0
10 total credit hours attempted			22 total grade points
To calculate GPA, the total grade points are divided by the total credit hours attempted.			
Total grade points	divided by	$\frac{22}{10}$	= 2.20
Total credit hours attempted			

consisting of five letter grades which are used in calculating grade point average.

A	(Superior)	4 points
B	(Above average)	3 points
C	(Average)	2 points
D	(Below average)	1 point
F	(No credit)	0 points

NOTE: A "D" or "F" grade 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 pre-requisites.

### 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

B = 3 grade points

C = 2 grade points

D = 1 grade point

F = 0 grade points

Pass/No Pass (P/NP) courses are not factored in the student's GPA. I (Incomplete), R (Repeat), Y (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 when registering. Students receiving financial aid should consult with Rogue Central. (Financial aid will not pay for audits.)
- Pending (Y) 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.
- Withdrawal (W) is assigned when a student officially withdraws from a class after the second Wednesday 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.

## 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, NP and Z. 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

Only the highest grade (defined by grade points) will be counted towards students (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. This applies only to grades that are included in GPA calculations, not W, Y, NP, P, I or AU grades. Retaking a previously passed course is aid-eligible only once. Notify Rogue Central before registering in a class passed twice so that aid can be adjusted prior to payment.

Request forms to exclude previous grades are available at [www.roguecc.edu/Enrollment/forms](http://www.roguecc.edu/Enrollment/forms). A new student information system will be implemented at RCC in 2020 and this will become an automatic process and will not require the form.

## Course numbering

- **Personal Enrichment.** Courses with numbers below 1.000 (e.g., .601 and .616.3) are considered to be personal enrichment courses and are not intended for program completion or transfer and are not financial-aid eligible.
- **Academic Success.** Courses with letters (e.g. CIS, CG, MTH, RD, WR) followed by numbers of less than 100 (e.g., MTH20) are generally considered academic success courses and are sometimes financial-aid eligible.
- **Career and Technical.** Courses identified by the following prefixes: AH, AM, APR, BT, CPL, DA, DDM, DS, ECE, EET, EMS, ES, FRP, DDM, HC, HCI, HD, HS, MEC, MET, MFG, MT, NUR, PN, PRX, SPT, SRB, ST, TD, WLD are career and technical courses. Most of these courses apply to career and technical degrees and certificates from RCC. They are financial-aid eligible if required or are an approved elective of an aid eligible program.
- **Occupational Supplementary.** These courses, numbered 9.xxx (e.g., 9.263), are designed to upgrade the skills of workers currently employed in occupations or industries. These courses generally 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.
- **Lower Division Collegiate.** These courses that are generally accepted by four-year colleges are identified with letters and numbers (e.g., WR121), with the exception of courses with the career and technical

prefixes previously listed and are generally 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.

### Advanced Placement (AP)

AP credit can be earned in high school for college-level classes based on successful completion of AP exams offered through the College Board. See the Advanced Placement Exam chart on page 14 for information about passing scores. Submit official AP score reports from [www.Collegeboard.org](http://www.Collegeboard.org).

### International Baccalaureate (IB)

IB credit can be earned in some high schools for college-level classes upon successful completion of the IB Exam. See IB Exam chart on page 16 for passing scores. Submit an official IB score report from [www.ibo.org](http://www.ibo.org).

### 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

online at [www.naces.org/](http://www.naces.org/). Students may use the NACES member of their choice for a course-by-course or comprehensive evaluation, including grades.

## Educational Partnerships

The Educational Partnerships Department coordinates dual enrollment programs (College Now, Early College and CTE Academy) and high school partnership agreements between RCC and Jackson and Josephine county high schools. It provides students the opportunity to earn college credit while still in high school. Courses may be taught by RCC instructors or high school teachers and qualify for RCC credit; high schools usually grant credit for these courses. Dual credits can be earned while working toward a Career Pathways certificate, a one-year certificate of completion, or a degree in many programs. Dual Credit requires students to submit a completed RCC application online and complete and submit an underage enrollment form. Contact your high school counselor/liaison for assistance. More information is also available from the Educational Partnerships Department, Table Rock Campus, Office 108, 110 and 112, 7800 Pacific Ave., White City, OR 97503, 541-245-7806 or [HSA@roguecc.edu](mailto:HSA@roguecc.edu).

### 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 various RCC academic departments to align the content of the high school class with the rigor of the college class and become approved to teach the college classes at the high school. Schools apply the college credit earned to the high school diploma.

### Early College

This dual enrollment program allows high school students at participating high schools to become traditional RCC students during their high school years. Early College students take discounted RCC campus or online courses taught by RCC instructors with the intention of completing a 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.



## CTE Academy

This program allows high school students in grades 11 and 12 to take courses towards industry specific employment. Courses may be taught online at any of our three main campuses, or at a specific high school by an RCC instructor. These Academies are aligned with career and technical education knowledge and skills that are found in all sectors of manufacturing, electronics, and health care industries. Upon high school approval, students that enroll may be able to use earned college credit towards their diploma.

## Credit for Prior Learning (CPL)

Credits earned through these various programs do not count toward the minimum number of credits that the college requires 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 the RCC chief academic officer. No more than 25 percent of total program credits may come from credits granted for prior learning. Visit the RCC website at [www.roguecc.edu/enrollment/forms](http://www.roguecc.edu/enrollment/forms) for required forms.

## 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 experience 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. Full tuition and college fees are charged. The Challenge Exam Form is available online.

## 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

## Advanced Placement Exam chart

Advanced Placement Examination	Scores	Credits	Course
Art – Drawing	4+	4	ART131
Art - History	4+	8	ART204, ART205
Art - Studio	4+	4	ART199
Biology	4+	12	BI211,212,213 w/lab
Cal. AB**	3	5	MTH251
Cal. AB**	4+	10	MTH251,252
Cal. BC**	3	10	MTH251,252
Cal. BC**	4+	15	MTH251,252,253
Chemistry	4+	15	CHEM221,222,223 w/lab
Chinese Language and Culture	3+	12	Humanities Elective
Computer Science A	4+	4	CS161
Computer Science Principles	4+	4	CS160
English Language and Comp	3+	4	WR121
English Literature and Comp	3+	4	ENG104
Environmental Science	3+	4	ENV111 + 1 credit non-lab science elective
French Language and Culture	3+	12	FR101,102,103
German Language and Culture	3+	12	Humanities Elective
Government (United States)	4+	3	PS201
History (European)	3+	4	Social Science Elective
History (European)	4+	8	Social Science Elective
History (United States)	3+	4	HST201
History (United States)	4+	8	HST201,202
History (World)	4+	8	HST104,105
Human Geography	3+	4	GEOG110 + 1 credit social science elective
Japanese Language and Culture	3+	12	Humanities Elective
Latin	3+	12	Humanities Elective
Macro Economics	3+	4	ECON202
Micro Economics	3+	4	ECON201
Music Theory	4+	8+	MUS111,112
Physics 1	4+	5	PH201
Physics 1 & Physics 2	4+	15	PH201,202,203 w/lab
Physics 2	4+	5	PH202
Physics C (Electricity and Magnetism)	4+	5	PH212 w/lab
Physics C (Mechanics)	4+	5	PH211 w/lab
Psychology	3+	4	PSY201
Spanish Language and Culture	3+	12	SPAN101,102,103
Spanish Literature and Culture	3+	4	Humanities Elective
Statistics	4+	4	MTH243

\*\* Credit not granted in both, only one or the other, depending on the examination taken.



## International Baccalaureate Exam (IB) chart

International Baccalaureate Examination		Standard Level Exam score of 5 or higher		Higher Level Exam score of 5 or higher
Course	Credits	Course	Credits	Course
Art History	4	Humanities Elective	n/a	n/a
Astronomy	4	GS108	n/a	n/a
Biology	4	BI211	12	BI211,212, 213
Business	4	BA101	4	BA101
Chemistry	5	CHEM221	15	CHEM221,222 223
Classical Languages	4	2nd year Foreign Language or Humanities Elective	12	2nd year Foreign Language or Humanities Elective
Computer Science	4	CS161	8	CS 161, 162
Dance	4	General Elective	8	General Elective
Design Technology	4	Non-lab Science Elective	4	Non-lab Science Elective
Economics	3	ECON115	8	ECON 201, 202
Environmental Systems and Societies	4	ENV111	n/a	n/a
Film	4	Humanities Elective	8	Humanities Elective
Further Mathematics (higher level only)	n/a	n/a	15	MTH251, 252, 253
Geography	3	Social Science Elective	6	GEOG100, 110
Global Politics	3	PS201	6	PS201, 202
History (standard level only)	4	HST105	n/a	n/a
History of Africa & Middle East (higher level only)	n/a	n/a	8	Social Science Elective
History of Americas (higher level only)	n/a	n/a	8	HST201, 202
History of Asia & Oceania (higher level only)	n/a	n/a	8	Social Science Elective
History of Europe (higher level only)	n/a	n/a	8	Social Science Elective
Information Technology in a Global Society	4	CS120	8	CS120, 4 credit CS elective
Language A: Language & Literature (English)	4	WR121	12	WR121, ENG104, ENG105
Language A: Language & Literature (other than English)	4	1st course in 2nd yr. sequence language	12	2nd yr. language sequence
Language A: Literature (English)	4	WR121	12	WR121, ENG108, ENG109
Language A: Literature (other than English)	4	1st course in 2nd yr. sequence language	12	2nd yr. language sequence
Language B (all languages except English)	4	1st course in 2nd yr. sequence language	12	2nd yr. language sequence
Literature and Performance (English)	4	TA199	n/a	n/a
Literature and Performance (Spanish, French)	4	1st course in 2nd yr. sequence language	n/a	n/a
Marine Science	4	GS108	n/a	n/a
Math Studies (standard level only)	4	MTH105	n/a	n/a
Mathematics	5	MTH251	10	MTH251, 252
Music (Solo, Group or Composition)	4	MUS101	7	MUS101, 105
Philosophy	4	PHL101	8	PHL101, Humanities Elective
Physics	5	PH201	15	PH201, 202, 203
Psychology	4	PSY201	8	PSY201, 202
Social and Cultural Anthropology	4	ANTH110	4	ANTH110
Sports, Exercise & Health	3	HPE295	6	HPE295, 3 credits of Health/PE
Theater Arts	4	Theater Elective	4	Theater Elective
Visual Arts	3	ART211	8	ART211, Studio Art Elective
World Religions	4	REL201	n/a	n/a



## College Level Exam Program (CLEP) chart

College Level Examination Program (CLEP) Credit	Scores	Credits	Course
<b>General Examinations</b>			
College Mathematics	50	4	MTH105
English Composition	n/a	0	No equivalent
Humanities	*50	3	HUM199 (Humanities Elective)
Natural Sciences	*50	9	Non-lab Science Elective
Social Sciences and History	**	**	Requires Department Evaluation
<b>Subject Examinations</b>			
Composition and Literature	n/a	0	No equivalent
American Literature	50	3	ENG199 (Literature Elective)
Analyzing and Interpreting Literature	n/a	0	No equivalent
English Literature	50	3	ENG199 (Literature Elective)
Freshman College Composition	n/a	0	No equivalent
<b>Foreign Languages</b>			
French Language, Level 1 Proficiency	50	8	FR101-102
French Language, Level 2 Proficiency	59	12	FR101-102-103
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	SPAN101-102
Spanish Language, Level 2 Proficiency	63	12	SPAN101-102-103
<b>History and Social Sciences</b>			
American Government	50	3	PS199 (Political Sci. Elective)
History of the United States I: Early Colonization to 1877	50	4	HST201
History of the United States II: 1865 to the Present	50	4	HST202
Human Growth and Development	50	4	PSY215
Introduction to Educational Psychology	n/a	0	No equivalent
Introductory Psychology	50	8	PSY201, 202
Introductory Sociology	74	4	SOC204
Principles of Macroeconomics	50	4	ECON202
Principles of Microeconomics	50	4	ECON201
Social Sciences and History	70	8	Social Science Elective
Western Civilization I: Ancient Near East to 1648	50	4	AAOT History Elective
Western Civilization II: 1648 to the Present	50	4	AAOT History Elective
<b>Science and Mathematics</b>			
Calculus with Elementary Functions	50	5	MTH251
Calculus with Elementary Functions	60	10	MTH251, 252
College Algebra	50	4	MTH111
Precalculus	50	8	MTH111,112
Trigonometry	50	4	MTH112
General Biology	50	9	Non-lab science elective
General Chemistry	50	9	Non-lab science elective
<b>Business</b>			
Information Systems and Computer Applications	52	4	BA131
Introductory Business Law	56	4	BA226
Principles of Management	n/a	0	No equivalent
Principles of Accounting	50	4	BA211
Principles of Marketing	52	4	BA223

\* Score of 500 or above required prior to 1999.

\*\* No set policy. Requires department evaluation.

for passing scores and recognized subject areas. Submit an official CLEP score report from [www.Collegeboard.org](http://www.Collegeboard.org). RCC is not a CLEP testing center. See the College Board website for current testing center locations.

### 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; Criminal Justice; 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 experience credit

Military experience 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." Review and recommendations from department chairs must align with equivalent courses at RCC. 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. Students may be required to enroll in CPL120, a course that guides them through the portfolio process. To be eligible for portfolio review, students must have completed at least 12 non-CPL credits at RCC and be enrolled in at least three credits at the time application is made.

## Honor rolls

Rogue Community College recognizes superior academic achievement in college-level classes through a President's List and a Vice President's List. To earn inclusion a student must complete at least 12 college-level RCC credits or more, graded A through F, 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 are not included in GPA calculations and do not count toward the honor rolls. See "Grade point average calculation" on page 12.

Members of both lists are eligible to join the community college honor society, Alpha Zeta Pi.

## Institutional award of degrees and certificates

[web.roguecc.edu/commencement/graduation](http://web.roguecc.edu/commencement/graduation)

RCC will grant two-year associate degrees, one-year certificates, and less than one-year 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 the June Commencement ceremony, students must submit a graduation application by February.

## Report cards

[www.roguecc.edu/myRogue](http://www.roguecc.edu/myRogue)

End of term grades are available online by Wednesday of the week following the end of each term.

## Social Security disclosure statement

Oregon Administrative Rule 581-41-460 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 American College Testing Service, if a student takes the Asset Placement test, for educational research purposes.
- 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

[www.roguecc.edu/FERPA](http://www.roguecc.edu/FERPA)

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

1. Name, address, and telephone number.
2. Major field of study.
3. Dates of enrollment.
4. Degrees and awards received.
5. Participation in official recognized college activities and sports.
6. Academic credit information.
7. Email address.
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 Exemption form at Rogue Central. 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 directory information, Rogue Central 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 [RCS@roguecc.edu](mailto:RCS@roguecc.edu).

## Student educational records

[www.roguecc.edu/FERPA](http://www.roguecc.edu/FERPA)

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 a hearing to challenge the contents.

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 Director of Enrollment Services.

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



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## Student right-to-know

### Graduation rate

[www.roguecc.edu/Students/graduation\\_rates.asp](http://www.roguecc.edu/Students/graduation_rates.asp)

The following graduation rates are the result of a three-year study of each fall term's first-time freshmen entering RCC. These students must meet the following criteria:

- Have been a first-time freshman entering RCC in fall 2015-16.
- Have never previously attended any college.
- Have attended RCC full time (at least 12 credit hours) during their first fall term.
- Be identified as degree seeking using their declared majors.

Rates are reported as a three-year tracking period. This allows for the reporting of completions (graduations) within 150 percent of the normal time. Transfer rates are for transfers to any college or university in the United States.

- 15 percent graduated by the end of winter term 2014 (certificate seeking) or by end of summer term 2015 (degree seeking).
- 17 percent transferred to another college or university.

## 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 <http://www.roguecc.edu/Students/1098T/>. For questions about your 1098T form please email [1098T@roguecc.edu](mailto:1098T@roguecc.edu). For additional information and FAQs, visit [www.roguecc.edu/students/1098T.asp](http://www.roguecc.edu/students/1098T.asp).

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 [www.irs.gov](http://www.irs.gov).

## Transcripts

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







# Understanding college terms

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## **Academic Probation**

Status given to students who do not meet Satisfactory Academic Progress for the second time. Refer to "Satisfactory academic standing and progress" in the policy section or [www.roguecc.edu/Enrollment/SASP](http://www.roguecc.edu/Enrollment/SASP).

## **Academic Suspension**

Status given to students who do not meet Satisfactory Academic Progress for the third time. Refer to "Satisfactory academic standing and progress" in the policy section or [www.roguecc.edu/Enrollment/SASP](http://www.roguecc.edu/Enrollment/SASP).

## **Academic Success classes**

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

## **Academic Warning**

Status given to students who do not meet Satisfactory Academic Progress for the first time. Refer to "Satisfactory academic standing and progress" in the policy section or [www.roguecc.edu/Enrollment/SASP](http://www.roguecc.edu/Enrollment/SASP).

## **Adult Basic Skills**

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.

## **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 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, from Automotive Technology to Nursing.

## **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.

## **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.

## **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.

## **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, CPL, DA, DDM, DS, ECE, EET, EMS, ES, EST, FRP, HC, HCI, HD, HS, MEC, MET, MFG, MT, NUR, PN, PRX, SPT, SRV, ST, TD, WLD. Most of these courses apply to RCC career and technical education degrees and certificates.

## **College Now**

A dual credit program that is located in some high schools where college credit can be earned in high school classrooms while being taught by high school staff.

## **College transfer courses**

Courses that are generally accepted by four-year colleges are identified with letters and numbers (e.g. WR121), with the exception of courses with the career and technical prefixes listed.

## **Career Pathways certificates of completion**

Career Pathways 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 Pathways 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.

## **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**

Classes that all students in a major program are required to take.

## **Counselor**

A Counseling and Advising faculty member who is certified and/or licensed as a personal counselor and who provides crisis counseling free of charge to students. Counselors also teach human development and career guidance classes and provide academic advising.

## **Credit**

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

## **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 while still in high school.



## **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.

## **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.

## **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 [www.FAFSA.gov](http://www.FAFSA.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.

## **General education requirements**

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

## **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, B=3 points, C=2 points, D=1 point, F=0. (Grades not included in applied credits are AU, I, NP, P, R, W, Y, and Z.)

## **Graduation guide**

List of courses necessary to complete a degree or certificate.

## **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 graded college-level credits or more.

- President's List – 4.0 term GPA.
- Dean'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.

## **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).

## **MTuWThFSaSu**

(Shown in schedule of classes) Represents days of the week. "Course offered TuTh," indicates Tuesday and Thursday class.

## **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 [www.OregonStudentAid.gov/fafsa-orsaa.aspx](http://www.OregonStudentAid.gov/fafsa-orsaa.aspx).

## **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 test**

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

## **Prerequisite**

Courses that must be successfully completed (grade of A, B, C, or P) before proceeding in the curriculum (e.g. BT113 or WR115 must be completed prior to PSY101).

## **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 grade point average (GPA) each term with a cumulative GPA of at least 2.0 and/or successfully pass 50 percent of credits attempted, earning A, B, C, or P grades. Unsatisfactory progress may result in being placed on academic warning, probation, and subsequently 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., BA211, BA212, BA213).

## **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 usually share a common description or course number at multiple institutions (such as CS120) 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 Services

## Athletics

athletics.roguecc.edu  
541-245-7770

The Rogue Community College Ospreys compete in the Southern Division of the Northwest Athletic Conference (NWAC). The college hosts men's and women's soccer and women's volleyball.

National data collected by the NCAA consistently shows that college athletes graduate at a higher rate than other students, and that many companies prefer to hire student athletes because they have developed the ability to set goals, stick to a training program and achieve results. Athletic tuition waivers are offered at the coach's discretion.

If you would like to know how you can support or join the Ospreys, please visit [www.roguecc.edu/athletics](http://www.roguecc.edu/athletics).

The Northwest Athletic Conference is the parent athletic organization for 36 community colleges located in Idaho, Oregon, Washington and British Columbia. To learn more about NWAC, visit [www.nwacsports.org](http://www.nwacsports.org).

## Career and Student Employment Services

[web.roguecc.edu/career-and-student-employment-services](http://web.roguecc.edu/career-and-student-employment-services)

- Redwood Campus, L Building, 541-956-7323
- Riverside Campus, G Building, Room 205, 541-245-7538
- Table Rock Campus, Room 192, 541-245-7954

## Career Services

Assists students from admissions to graduation in selecting majors and enhancing career readiness and job search skills. Students gain better preparation for the job market during college and beyond by taking advantage of opportunities and skills relevant to their career plans.

### Not sure what you want to be?

Career Services will help you explore majors and careers based on your personality, interests and strengths.

- Take the Holland Codes Quiz to discover your "Work Personality."
- Explore RCC Degrees and Certificates.
- Research the job market.

## Searching or applying for a job?

Career Services offers support and assistance whether applying for student employment, an entry-level job, or the next step in your career. Let us help you develop or improve your application materials.

- Develop and edit resumes and cover letters.
- Identify professional and educational references.
- Explore job search resources and techniques.
- Understand and use online career resources.

## Preparing for an interview?

Learn what employers are looking for and how to tailor your answers for the job you want.

- Prepare interview questions.
- Do a mock interview.
- Make a great first impression and dress to impress.
- Practice your handshake.

## Student Employment Services

On-campus student employment is available to students enrolled in 6 or more credits with 2.0 cumulative GPA (minimum GPA will vary for some positions). Student employees have better outcomes.

- You receive a paycheck!
- Schedules that work around classes.
- Develop job skills
- Advance toward career goals.
- Great opportunity to network within the RCC community.
- Build marketable skills.
- Supportive work environment.

For job listings, visit <https://www.governmentjobs.com/careers/roguecc/transferjobs> or visit the Career and Student Employment Services Department for assistance.

## Counseling and Advising

[www.roguecc.edu/Counseling](http://www.roguecc.edu/Counseling)

- Student Services Building, Redwood Campus, 541-956-7192
- G Building, Riverside Campus, 541-245-7552
- Table Rock Campus, Room 187, 541-245-7863

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

- Academic advising.
- Help in choosing a major.
- Crisis intervention.
- Conflict resolution.
- Career and life planning.
- Internet access to career, job market and scholarship information.
- Transfer advising.
- Early intervention for academic success.

## Academic advising

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 for first term students is provided through Advising and Registration Clinics (ARCs) held on campus. Register for an ARC through myRogue. Students working on academic skills-level classes may make advising appointments through Adult Basic Skills, 541-245-7701 at the Riverside Campus, 541-956-7253 at the Redwood Campus, 541-245-7820 at Table Rock Campus, and 541-956-7455 at the Illinois Valley Learning Center.

Career and technical education students and those who are program-ready (have a declared major or have completed or tested above RD90, WR115, and MTH60) should see their program advisors. Call the number listed for individual departments, which is included with specific program information on pages 63-177 in this catalog.

Students enrolling in the following programs should speak with an advisor prior to start of first term:

- Automotive Technology, 541-956-7140.
- Early Childhood Education, 541-956-7066 (Grants Pass); 541-245-7504 (Medford).
- Electronics Technology, 541-245-7809.
- Emergency Medical Services, 541-245-7965.
- Fire Science, 541-245-7965.
- Industrial Welding Technology, 541-245-7809.
- Manufacturing Technology, 541-245-7902.
- Renewable Energy Technician, 541-245-7809.

Students who are undecided about their majors or who are not yet program ready may receive advising in Counseling and Advising.



## Career counseling and planning

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

The RCC website provides useful career exploration resources. Visit [www.roguecc.edu](http://www.roguecc.edu) and select Career Base Camp or Career Pathways. Career Services provides assistance and information for resume writing, interview skills and job search tools.

## Retention or crisis counseling

College students often experience challenges coping with stress. Meeting with a counselor may help with the demands of college. Counselors provide professional 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 resources.

## Counseling FAQs

### Are services confidential?

RCC Counseling and Advising 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 Counseling 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 aren't 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 [www.roguecc.edu/Counseling/counseling-advising-department-staff](http://www.roguecc.edu/Counseling/counseling-advising-department-staff).

## What other services are offered?

- Human development and career guidance courses.
- College and university transfer information.
- Academic advising.
- Placement test information and scheduling.
- Scholarship information.
- Substance abuse referrals.

## Disability Services

[www.roguecc.edu/DisabilityServices](http://www.roguecc.edu/DisabilityServices)

- Tutoring Center, Wiseman Building, Redwood Campus, 541-956-7337, Oregon Telecom Relay Service, 711
- B Building, Room 9, Riverside Campus, 541-245-7537, Oregon Telecom Relay Service, 711
- Table Rock Campus, Room 191 541-245-7537, Oregon Telecom Relay Service, 711

Disability Services provides academic support services to help ensure all qualified students have equal access to education. Documentation to verify a disability is required in order to receive accommodations.

Disability Services coordinates note-takers, sign language interpreters, disability advising, conversion of class materials to alternate text format, and adaptive technology for RCC students with disabilities; see Adaptive Technology Lab.

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

It is recommended that students request accommodations at least four or more weeks prior to the start of each term to prevent any delay in receiving services.

Students or others with service animals such as guide dogs or dogs for the deaf should contact Disability Services for authorization of a service animal prior to attending classes or other campus events.

## Servicios de Discapacidades

[www.roguecc.edu/DisabilityServices](http://www.roguecc.edu/DisabilityServices)

- Redwood Campus, Edificio del Centro Wiseman, 541-956-7337 o Oregon Telecom Relay Service, 711
- Riverside Campus, Edificio B, habitación 9, 541-245-7537 o Oregon Telecom Relay Service, 711
- Table Rock Campus, habitación 191, 541-245-7537 o Oregon Telecom Relay Service, 711

*Los Servicios de Discapacidades provienen servicios de apoyo de educación para asegurar que todos los estudiantes cualificados tengan igual acceso a educación. Documentación de una discapacidad es requerida para verificar la discapacidad y poder hacer arreglos apropiados acerca de la discapacidad.*

*Los Servicios de Discapacidades coordinan con personas quienes toman apuntes y quienes interpretan con lenguaje de señas. También los servicios brindan consejeros para estudiantes con discapacidades de aprendizaje y/o con discapacidades físicas. Ofrecen conversión de material de clases al formato de texto alternativo, y utilizan tecnología adaptiva para los estudiantes de RCC con discapacidades.*

*El Laboratorio de Tecnología Adaptiva provee ayuda y evaluaciones por medio del acceso adaptivo a la computadora.*

*Se sugiere que los estudiantes quienes supongan que tengan una discapacidad soliciten una cita con los Servicios para Discapacidades para explorar servicios. Además, se recomienda que estudiantes pidan acomodaciones por lo menos cuatro semanas antes del*



*comienzo de cada trimestre para evitar una demora en recibir servicios.*

*Los estudiantes y otras personas con animales de servicio, como un perro lazarillo o guía de apoyo por los sordos, deben entregar una solicitud a los Servicios de Discapacidades para obtener autorización para el guía antes de asistir a clases o eventos en el campus.*

## Enrollment Services

[www.roguecc.edu/Enrollment](http://www.roguecc.edu/Enrollment)

- Student Services Building, Redwood Campus, 541-956-7501
- G Building, Riverside Campus, 541-245-7501
- Table Rock Campus, Room 187, 541-245-7501

Enrollment Services provides the following comprehensive services at each stage – entry, flow through, and exit – of a student's education: admission, registration, payment, financial aid advising, enrollment and degree verifications, transcripts, grades, degree audits, transfer and military credit evaluations, graduation, and family education rights and privacy act compliance.

## Financial Aid

[www.roguecc.edu/FinancialAid](http://www.roguecc.edu/FinancialAid)

See the Financial Aid Application and process information at <http://web.roguecc.edu/financial-aid/financial-aid-forms> for more detailed information.

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 the Financial Aid website (above), email Rogue Central at [RCS@roguecc.edu](mailto:RCS@roguecc.edu), or stop by a Rogue Central service counter at these locations:

- Student Services Building, Redwood Campus.
- G Building, Riverside Campus.
- Room 187, Table Rock Campus.

Contact the Financial Aid Office by mail: 3345 Redwood Hwy., Grants Pass, OR 97527; by FAX: 541-471-3532 or by email: [RCS@roguecc.edu](mailto:RCS@roguecc.edu).

Monitor your financial aid status by logging on at [www.roguecc.edu/myRogue](http://www.roguecc.edu/myRogue), then select the "Financial Aid Status" link.

The RCC Financial Aid Office will communicate with you primarily via email, text,

and/or myRogue. To access information in a timely manner, keep your RCC personal information updated, check your email often for correspondence from "myRogueTeam" with "Financial Aid Mail" in the subject line, and be sure your ISP allows mail from [myRogueTeam@roguecc.edu](mailto:myRogueTeam@roguecc.edu).

## 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 (eg. GED®).
- Admitted to the college.
- Enrolled in and working toward the completion of an eligible certificate or degree program (see 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) at <https://oregonstudentaid.gov/oregon-promise.aspx>.

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 [www.fafsa.gov](http://www.fafsa.gov). A hard-copy application is available by calling 1-800-4FEDAID. The RCC federal school code is #010071. (Undocumented Oregon residents may complete an ORSAA in lieu of the FAFSA for state aid.)

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, you have up to 120 days (but no later than

the third week in September following the academic year) to submit necessary documents for possible retroactive award.

If a student answers "no" to every question in Section 2 of the FAFSA, the student's application will be processed as a dependent, with parental information and signature. If a student is unable to obtain parental information or, in limited situations, finds it is inappropriate to do so, there may be options. See the RCC Independence Requirements form at [web.roguecc.edu/financial-aid/financial-aid-forms](http://web.roguecc.edu/financial-aid/financial-aid-forms).

2. Once the federal processors have evaluated a FAFSA, they will email the results to the applicant in the form of a Student Aid Report (SAR) and to the colleges the student listed. Once RCC receives electronic SAR information, the Financial Aid Office will email students if additional application documents are required.
3. Complete and return any requested documents right away. Students will be notified of financial aid eligibility per an official Award Letter or Eligibility Notification, both issued by RCC in good faith and based on information available at the time. Recipients must review and accept the Conditions of Accepting Financial Aid 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 Award Letter or Eligibility Notification is issued and prior to term application deadlines. The loan application process opens the week of June 11, 2019. More information about these programs and application deadlines is available from Rogue Central and on the RCC Financial Aid website.

## Where's the aid?

Students who complete their aid application by the RCC Financial Aid Priority Application deadline should see their term awards on their RCC student account about one week prior to the term, in time to charge books and supplies at RCC bookstores. To purchase books elsewhere, submit a Book Allowance Request Form to Rogue Central through the first week of the term.

On the second Friday of the term, students who have extra financial aid on their RCC student account will receive an electronic



refund via BankMobile®. For students who are dual-enrolled at SOU and have submitted a dual enrollment form, RCC will issue payment to SOU before releasing a refund of extra financial aid to BankMobile® accounts.

Refunds are electronically transferred twice each week after the initial refund, through finals week. Refunds are not issued the week after a term while academic progress is being reviewed.

NOTE: After RCC receives your SAR and you register for classes, look for a BankMobile® welcome package in the mail. Activate the electronic refund preference immediately to avoid delays in receiving the refund. For questions visit [www.bankmobile-vibe.com](http://www.bankmobile-vibe.com).

### Return of Title IV funds policy

When students receive financial aid but totally withdraw before completing at least 60 percent of a term, or if they earn a combination of all F, NP, or W grades (unofficial withdrawal), RCC must calculate how much aid was unearned and must be repaid. Students may owe a repayment to RCC as well as to federal programs. Repayment in full is required before they can enroll again or get future financial aid. Students should carefully consider other options before withdrawing.

For more information see the "Withdrawing?" Repayment Policy document at [web.roguecc.edu/financial-aid/financial-aid-forms](http://web.roguecc.edu/financial-aid/financial-aid-forms).

### 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 through a Progress Toward Graduation appeal process.

Aid will be adjusted to match the 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.

Half-time, 6-8.

Less-than-half-time, 1-5.

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. For more information on how withdrawing might affect financial aid, review the "Withdrawing?" Repayment Policy document at [web.roguecc.edu/financial-aid/financial-aid-forms](http://web.roguecc.edu/financial-aid/financial-aid-forms).

### Satisfactory academic progress requirements

At the time of printing this policy and procedure was under review. For the most up-to-date information please search "Satisfactory Academic Standing and Progress" at [www.roguecc.edu](http://www.roguecc.edu).

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 Satisfactory Academic Progress policy at [web.roguecc.edu/financial-aid/financial-aid-forms](http://web.roguecc.edu/financial-aid/financial-aid-forms).

### Dual enrollment

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 combined credit load. For consideration, submit a dual enrollment agreement at the beginning of the term. Forms are available at [web.roguecc.edu/financial-aid/financial-aid-forms](http://web.roguecc.edu/financial-aid/financial-aid-forms).

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 \$6,195 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) awards scholarships ranging from \$1,000-\$10,000 or more to Oregon residents who enroll at least half time during their cohort term. Full value requires full-time enrollment and half value for part-time enrollment (6-11 credits) is available fall, winter and spring terms.. Funding is limited; only FAFSA applicants with the highest need may be eligible. For more information, call 800-452-8807, or visit [www.oregonstudentaid.gov](http://www.oregonstudentaid.gov). Lifetime maximum is 12 full-time equivalent quarters.
- Oregon Promise Grant was new as of 2016-17 to qualified residents who graduated high school with cumulative 2.5 GPA or completed a GED® with scores of at least 150, and who enroll at least half-time at an Oregon community college within six months. Most tuition charges not otherwise covered by Pell or OOG is the value. Not eligible for summer enrollment. Funding is subject to legislative approval.
- 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 ([www.rccfoundation.org](http://www.rccfoundation.org)) and the Oregon Student Assistance Commission ([www.getcollegefunds.org](http://www.getcollegefunds.org)) provide numerous scholarship opportunities. In addition, RCC maintains an on-line 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. Contact Rogue Central for more information, or visit RCC Scholarship Central at [www.roguecc.edu/FinancialAid/scholarship](http://www.roguecc.edu/FinancialAid/scholarship).



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

2. Part-time student work programs administered through RCC Career and Student Employment Services.

- L Building, Redwood Campus, Grants Pass, 541-956-7091
- G Building, Riverside Campus, Medford, 541-956-7091
- Room 217, Table Rock Campus, White City, 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 \$1,300 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 [www.nslds.ed.gov](http://www.nslds.ed.gov). Use your Social Security number, date of birth, last name, and federal PIN to access information. A student loan fact sheet is available in myRogue – Financial Aid Status – My Student Loan Status, and will be issued to prior borrowers at key points.

RCC offers subsidized and unsubsidized Federal Direct Loans.

- Subsidized FDL 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. New borrowers as of 7-1-13 lose subsidy if their program is not completed within 150 percent of published length.
- Unsubsidized FDL 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 at [www.rogucecc.edu/FinancialAid/FDL](http://www.rogucecc.edu/FinancialAid/FDL).

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 Rogue Central. 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 written request to Rogue Central with a statement from the appropriate academic department regarding the cost of the professional credential, the cost that will be incurred, and the anticipated date of program completion.

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

## Tuition awards

### Veterans tuition awards

- Oregon National Guard/Selected Reserves: GOArmyEd, website: <https://www.goarmyed.com/>

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 that are 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 that are registered in GoArmyEd, 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).

For academic programs, associate, bachelor's or master's degrees, TA may not be used for a lower or lateral degree program from the one the soldier currently possesses. In addition to degree programs, TA is available to soldiers to complete a high school diploma and to complete certificate programs. TA is not authorized for programs of study beyond a master's degree.

All eligible soldiers will request TA through GoArmyEd. Visit [https://www.goarmyed.com/public/public\\_money\\_for\\_college-tuition\\_assistance.aspx](https://www.goarmyed.com/public/public_money_for_college-tuition_assistance.aspx) to see if you are eligible for this program. You may also contact Ann Browning at 503-584-3434, or [ann.browning@us.army.mil](mailto:ann.browning@us.army.mil).

- 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.

For dependents of an Oregon resident soldier who died as a result of active military service, RCC will grant tuition for up to 135 credits, regardless of additional funding sources. More information is available from RCC Veterans advisors. The Dependents of Fallen Oregon Service Members form is available at [www.rogucecc.edu/Enrollment/forms](http://www.rogucecc.edu/Enrollment/forms).

### 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). For more information, see <https://www.iontuition.com/FAQs>.

## Graduation

[www.roguecc.edu/graduation](http://www.roguecc.edu/graduation)

- Enrollment Services, 541-956-7427

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 early February. Graduation applications are available online at [roguecc.edu/Enrollment/forms](http://roguecc.edu/Enrollment/forms).

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.

## Graduation requirements

### Computer proficiency exam

- Student Services Building, Redwood Campus, 541-956-7191 or 541-956-7213
- F Building, Redwood Campus, 541-956-7066
- G Building, Riverside Campus, 541-245-7552
- Higher Education Center, 541-245-7527
- Table Rock Campus, Room 187, 541-245-7863

The college requires that students complete a computer proficiency requirement in most of its degree and certificate programs. For most students, this requirement may be met by taking and passing with a grade of "C" or better an approved 3-4 credit computer

science course, numbered CS120 or above, within the last 10 years (some CS-numbered courses do not fulfill the requirement and are so designated within the course description section of this catalog).

Students who have the requisite computer skills, are not computer science majors, and do not want to take other computer courses at RCC may opt to fulfill the requirement by taking the computer proficiency exam for a \$20 non-refundable fee. This exam does not waive a CS120 prerequisite for another course. See an advisor for more information.

### 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 advisor 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. No more than 25 percent of a programs credits

may be earned through credit for prior learning.

## Human Development and career guidance

- Student Services Building, Redwood Campus, 541-956-7190
- G Building, Riverside Campus, 541-245-7552

Human Development offers a variety of classes for students and community members, aimed at building personal skills and overcoming barriers to college success. Some offerings are:

- CG105, Scholarship Essay Writing. A 1-credit class that can help students write winning scholarship essays.
- CG100, College Success and Survival. A tuition-free, 2-credit class that provides information about RCC programs, choosing a major, and strategies for academic success.
- CG111, Study Skills for Math Success. Offers study tips, test taking strategies, and tools for anxiety reduction.
- CG140, Career Development. Provides tools for making informed career decisions.

## Latino Services

[www.roguecc.edu/LatinoServices](http://www.roguecc.edu/LatinoServices)

541-245-7711

### 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. Students will also receive resources and support for paying for college (scholarships, FAFSA, ORSAA, and the Oregon Promise Grant). For more information call 541-245-7711.

### Be Beca Ready workshops

Workshops designed to help Latinx students apply for scholarships. Students will receive help with the scholarship application process including their essay questions.

### Educación, un Mundo de Oportunidades (EMO)

EMO 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 keynote speakers, community members and current RCC students.

## Helping Oregon Latinos Advance (HOLA) Summer Bridge Program

[www.roguecc.edu/HOLA](http://www.roguecc.edu/HOLA)

The HOLA Summer Bridge Program is an annual, free, fun, 5-day event designed to help Latinx students transition into Rogue Community College. This program is intended to help increase recent high school graduates' college readiness. The week-long course includes:

- Fun with new college friends.
- Learning how to be a successful college student.
- Research into college majors and careers.
- Mapping which classes to take.
- Identifying how to get money for college.
- Earning college credits at no charge.

The program also includes lunch, snacks, transportation and college gear. The summer program is in September.

## Southern Oregon Latino Scholarship Fund

[www.solsf.org](http://www.solsf.org)

The Southern Oregon Latino Scholarship Fund (SOLSf) provides opportunities for Latino and Hispanic students living in the southern Oregon region to complete their post high school career and degree goals. Each year, with the help of generous community sponsors, SOLSF awards multiple college scholarships to students of Latino heritage.

## Servicios Latinos

[www.roguecc.edu/LatinoServices](http://www.roguecc.edu/LatinoServices)

541-245-7711

## 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. Estudiantes van a recibir recursos y ayuda que les ensena cómo pagar por sus estudios (becas, FAFSA, ORSAA, y Oregon*

*Promise). Pare más información, hable al 541-245-7711.*

## Be Beca Ready Workshops (Taller De Becas)

*Taller diseñado para ayudar a estudiantes Latinx que quieran aplicar a becas. Estudiantes van a recibir ayuda para llenar la solicitud de becas y ayuda con sus ensayos.*

## Educación, Un Mundo de Oportunidades (EMO)

*EMO que no tiene fines de lucro, presentará por un día solamente, una conferencia educativa para ayudar en los condados de Jackson y Josephine a estudiantes latinos de los grados 11 y 12. Esta conferencia tiene información relevante sobre la educación post secundaria y otros recurso valiosos para lograr el éxito en la Universidad y educación más avanzada.*

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

541-245-7585

*El programa HOLA Summer Bridge es un evento anual GRATUITO de 5 días 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 a recién graduados de secundaria para el otoño de 2019.*

*La clase de una semana incluye:*

- Visitar a los tres RCC campuses.
- Diviértase con nuevos amigos de RCC.
- Aprender a ser un estudiante universitario.
- Investigar los especializaciones y carreras de la universidad / colegio.
- Identificar cómo conseguir dinero gratis para su educación.
- Planificar qué clases tomar.
- Ganar créditos universitarios gratis.

*La clase también incluye almuerzo, refrigerios, transporte y equipo estudiantil. Para más información contacte a 541-245-7585.*

## RCC Mobile App for Students "Rogue Connect"

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 Rogue Connect, search "Rogue Community College" in the Apple App Store or Google Play. Find links on the web at: <http://roguecc.campusapp.com>.

## Rogue Central

[www.roguecc.edu/roguecentral](http://www.roguecc.edu/roguecentral) and [RCS@roguecc.edu](mailto:RCS@roguecc.edu)

- Student Services Building, Redwood Campus
- G Building, 2nd floor, Riverside Campus
- Room 187, Table Rock Campus

Registration, cashiering and financial aid services are available at one convenient location on each campus. Rogue Central handles all payments made by students including tuition, fees, and tuition installment plan payments.

## Student life

[www.roguecc.edu/StudentLife](http://www.roguecc.edu/StudentLife)

- Redwood Campus, 541-956-7094
- G Building, Riverside Campus, 541-245-7710

Rogue Community College student life programs provide opportunities for students to develop and enhance leadership skills and gain experiences that benefit the college community. Programs include the traditional student development activities of student government, student activities and student clubs.

## Athletics department

The Rogue Community College Ospreys are a member of the Northwest Athletic Conference (NWAC). As a member of the southern region of the NWAC ([www.nwac-sports.org](http://www.nwac-sports.org)), RCC hosts men's and women's soccer and women's volleyball. RCC team colors are blue and kelly green. For more information or to apply as an athlete, go to [www.roguecc.edu/athletics](http://www.roguecc.edu/athletics). Go Ospreys!

## Clubs

[web.roguecc.edu/asgrcc/asgrcc-clubs](http://web.roguecc.edu/asgrcc/asgrcc-clubs)

ASGRCC Offices:

- RWC Student Center, 541-956-7033
- RVC G Building, 541-245-7729
- TRC Room 185, 541-245-7729

The Associated Student Government of Rogue Community College (ASGRCC) provides some initial funding for on-campus clubs and organizations. The roster of clubs may change each year depending upon interest and active participation. Some examples of clubs are Christ on Campus, Veterans Club, Green Campus Initiative, and the



Drama Club. Students interested in more details or in initiating a new club on campus should contact the director of clubs or stop by the ASGRCC offices on the Redwood or Riverside campuses.

## Honor Society (Alpha Zeta Pi)

[www.roguecc.edu/AZP](http://www.roguecc.edu/AZP)

Contact: [jjones@roguecc.edu](mailto:jjones@roguecc.edu) or 541-245-7710

Academic excellence is the primary hallmark of Alpha Zeta Pi along with service and leadership opportunities. Candidates are identified three times a year and invitations to join are sent in fall, winter and spring terms to candidates meeting the following criteria:

1. Attain a cumulative GPA of 3.65 with a minimum of 24 college transferable credits. (Courses numbered 100 or higher.)
2. Have no more than one "W" on transcripts the previous two terms.
3. Be enrolled in at least eight credits.

Membership in Alpha Zeta Pi provides academic recognition on member transcripts, honors regalia at graduation, and in the commencement program. There are several scholarships available for application with Alpha Zeta Pi, including textbook scholarships winter term.

## Student government

[www.roguecc.edu/ASGRCC](http://www.roguecc.edu/ASGRCC)

- Student Center, Redwood Campus, 541-956-7033
- G Building, Riverside Campus, 541-245-7729
- TRC Room 185, 541-245-7729

The Associated Student Government of Rogue Community College (ASGRCC) coordinates student activities and clubs, supports special events, cultural activities, guest speakers and entertainers, represents the students to the college administration, and works on political issues. ASGRCC also provides assistance to campus departments by helping fund academic and cultural field trips.

The ASGRCC Executive Council appoints officers including, but not limited to: president; vice president; director of activities; director of clubs and organizations; executive secretary; diversity coordinator, and student senator.

Student government officers receive a stipend for their services to the student body and the college campus.

Positions may vary on each campus.

## Student Services Assistants

Student Services Assistants (SSAs) are a select group of students trained to assist other RCC students. They assist with scheduling placement tests, help with computerized career programs, and provide information about college procedures and resources.

## TRiO programs

### TRiO Rogue Opportunity Center (ROC)

[www.roguecc.edu/TRiOROC](http://www.roguecc.edu/TRiOROC)

- L Building, Redwood Campus, 541-956-7097
- G Building, Riverside Campus, 541-245-7699

The TRiO ROC provides counseling, information, and assistance on all aspects of college admissions to prospective students who want to enter or continue a program of postsecondary education. Serving Jackson and Josephine counties, TRiO ROC provides services free of charge to income-qualified participants including:

- Academic advice.
- Assistance in completing admissions applications.
- Assistance with test and college admission fees.
- Financial aid workshops.
- College research.
- FAFSA completion assistance.
- Pre-college testing assistance.

Eligible participants must meet one of the following criteria: be a first-generation college student (neither parent has a bachelor's degree); be classified as low income by federal guidelines; or be a U.S. citizen, national, or permanent resident with an alien registration number.

## TRiO Educational Talent Search

[www.roguecc.edu/TRiOETS](http://www.roguecc.edu/TRiOETS)

Table Rock Campus, 541-245-7747

The TRiO Educational Talent Search program serves middle and high school students in Jackson County who may benefit from services designed to enhance persistence and graduation rates. Services are offered at no cost to eligible participants attending target schools.

Services include:

- Support for high school and middle school students (grades 6-12).

- Grade-specific "college-prep" workshops.
- Academic and pre-college planning activities.
- Assistance in completing financial aid and admissions applications.
- Academic tutoring and mentoring.
- Assistance with pre-college test preparation.
- College application and test fee waivers.

Eligible participants must meet one of the following criteria: be a first-generation college student (neither parent has a bachelor's degree); be classified as low income by federal guidelines; or be a U.S. citizen, national, or permanent resident with an alien registration number.

## University Transfer - TRiO Student Support Services

[www.roguecc.edu/TRiOSSS](http://www.roguecc.edu/TRiOSSS)

- Redwood Campus, Josephine Building, 541- 956-7342
- Riverside Campus, G Bldg. 207, 541-245-7547

University Transfer - TRiO Student Support Services assists RCC students who intend to transfer to a four-year institution and complete a bachelor's degree. Students receive enhanced support at no additional charge as they successfully complete RCC courses and prepare to transfer.

Eligible students must meet one of the following criteria: have been raised by parents or caregivers who have not earned a bachelor's degree, have financial barriers, or have a documented disability.

Students also must have completed or be enrolled in MTH65 and WR115.

Services provided by University Transfer - TRiO SSS:

- Academic and transfer advising.
- Career guidance and financial literacy.
- Peer tutoring and mentoring.
- Scholarship and financial literacy workshops.
- Study groups for college success.
- Student lounge with computers and kitchen area.
- University tours and cultural activities.
- Tuition-free transfer classes.

Each TRiO Student Support Services program at Rogue Community College is funded by federal TRiO grants that average \$233,792 per year.



## Veterans Services

[www.roguecc.edu/veterans](http://www.roguecc.edu/veterans)

- Redwood Campus, L Building, 541-956-7109
- Riverside Campus, G Building, 1st floor, 541-245-7738
- Table Rock Campus, call 541-245-7738

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

Veterans Services are available to RCC students in Jackson and Josephine counties.

### Transcripts

Student Veterans receiving GI Bill® benefits while attending RCC are required to obtain official transcripts, military transcripts and all previously attended colleges, universities and technical schools. Student Veterans 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 RCC Veterans Services website. The website will direct you to complete your FAFSA (Financial Aid) application. If you have questions on how to get started at RCC, please contact a Veterans Coordinator on the Redwood or Riverside campuses.

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

### Apply for your Veterans Benefits

To apply for your Veterans Educational Benefits please visit [Vets.gov](https://vets.gov) at [https://](https://vets.gov)

[www.vets.gov/education/](http://www.vets.gov/education/). When you receive your Certificate of Eligibility, please see a Veterans Coordinator who will complete your Enrollment Certification Form 1999 and forward it to the VA for processing. Veterans Coordinators at RCC are unable to determine a student's eligibility for benefits. Veterans are welcome to access Veterans Coordinators prior to receiving their Certificate of Eligibility or Enrollment Certification (Form 1999) for planning purposes.

### Boots to Books Veterans Orientation

Veterans Services at RCC assists student Veterans who are utilizing their educational benefits to attend college. The Boots to Books orientation for new student Veterans is one hour 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 RCC Veterans webpage to sign up electronically.

### CG100V College Success for Student Veterans (new)

Rogue Community College's (RCC) CG100V (Student Veterans' College Success & Survival) class for student Veterans provides straightforward guidance for Veterans looking to earn a degree.

CG100V is a term-long, two-credit class (offered 11 weeks fall, winter, and spring terms.). CG100V is taught one day a week for 2 hours. This course is tuition and fee free for all student Veterans. CG100V will be offered on each of RCC's campuses: Table Rock, White City (TRC); Riverside, Medford (RVC); and Redwood, Grants Pass (RWC) via video conferencing with the instructor rotating campuses each week.

### 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.

### Veterans Resource Center

- Redwood Campus - Student Center Building, 541-956-7289
- Riverside Campus - G Building, 1st floor, 541-245-7749

Rogue Community College VRC Mission Statement:

At Rogue Community College our Veterans Resource Centers (VRC) are committed to assisting military students, 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.
- MyRogue student portal assistance.

VRCs offer student Veterans a collaborative and cooperative environment for every branch and era of service.

### Veterans Access, Choice, and Accountability Policy

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 GI Bill® - Active Duty Program) or chapter 33 (Post-9/11 GI Bill®), 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 within three years of discharge or release from a period of active duty service of 90 days or more.
- Anyone using transferred Post-9/11 GI Bill® benefits (38 U.S.C. § 3319) 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 within three years of the transferor's discharge or release from a period of active duty service of 90 days or more.
- Anyone described above while remaining continuously enrolled (other than during regularly scheduled breaks between courses, semesters or terms) at the same school. The person so described must have enrolled in the school prior to the expiration of the three year period following discharge or release as described above and must be using educational benefits under either



chapter 30 or chapter 33 of title 38, United States Code.

- 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).
- Anyone using transferred Post-9/11 GI Bill® benefits (38 U.S.C. § 3319) who lives in Oregon while attending a school located in Oregon (regardless of the student's formal state of residence) and the transferor is a member of the uniformed service who is serving on active duty.

- The policy shall be read to be amended as necessary to be compliant with the requirements of 38 U.S.C. 3679(c) as amended.

## 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. For more information and to register online, visit <https://sos.oregon.gov/voting-elections>.





# Resources

## Activities calendar

[www.roguecc.edu/Calendar](http://www.roguecc.edu/Calendar)

College events and activities may be included on the RCC calendar on the college website. Community members may submit event information that would be of interest to RCC students and staff through the online form. Go to [www.roguecc.edu/calendar](http://www.roguecc.edu/calendar) and select "Submit an Event." RCC employees add the details of the event and publish to the calendar in their 25Live room reservation. Events may also be viewed on the Rogue Connect campus app and the RCC Facebook page. Allow two to three days for the information to be posted.

## Adaptive technology lab

[www.roguecc.edu/DisabilityServices](http://www.roguecc.edu/DisabilityServices)

- Tutoring Center, Wiseman Building, Redwood Campus, 541-956-7337, Oregon Telecom Relay Service, 711
- B Building, Room 9, Riverside Campus, 541-245-7537, Oregon Telecom Relay Service, 711

The Disability Services Adaptive Technology Lab provides adaptive computer access and other assistive technology for students who experience disability.

Contact Disability Services to make an appointment and for adaptive technology information, demonstrations and use. Disability Services also coordinates academic accommodations for eligible students with disabilities. Refer to "Disability Services" in this catalog.

## Art gallery

[www.roguecc.edu/Galleries](http://www.roguecc.edu/Galleries)

### Wiseman Gallery

Redwood Campus, 3345 Redwood Hwy., Grants Pass, 541-956-7481

Works of visual art from a variety of aesthetic, cultural and social points of view in a variety of media are displayed in the Wiseman Gallery. Exhibits celebrate a range of work by artists of local to national prominence, as well as annual exhibits of student and faculty work.

### RCC/SOU Higher Education Center art exhibits

[www.rcc-sou.org](http://www.rcc-sou.org)

101 S. Bartlett St., Medford, 541-245-7741

Art created by RCC students, faculty and alumni, community artists, and from the

RCC collection is on display in the RCC/SOU Higher Education Center. Exhibits are meant to enrich the cultural life of the college at large; the artwork changes on a rotating basis.

## ATM

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

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

The Allpoint ATMs provide fee-free withdrawals or balance inquiries for students with BankMobile Vibe cards. The Allpoint ATM locator may be found at [www.allpointnetwork.com](http://www.allpointnetwork.com). Call 800-809-0308 to access the voice assistance ATM locator.

Problems with an ATM should be reported by calling 800-948-5884 or 800-809-0308 Option 2.

## 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.

## Bookstores

[bookstore.roguecc.edu](http://bookstore.roguecc.edu)

- N Building, Redwood Campus, 541-956-7160
- B Building, Riverside Campus, 541-245-7591
- Room 103, Table Rock Campus, 541-245-7870

The RCC bookstores offer course textbooks, study aids, clothing, gifts, fan gear, and a wide variety of school supplies. Books and items not in stock may be available by special order.

Bookstore hours will be posted at each location and at [bookstore.roguecc.edu](http://bookstore.roguecc.edu). Extended hours are offered during the first week of the term.

Textbooks may be returned for a full refund through Wednesday of the second week of the term, provided they are returned in the exact condition as purchased and accompanied by a receipt.

A textbook buyback is offered at the Redwood Campus and Riverside Campus bookstores

during the last week of each term. Search "Book Buyback" on the RCC website or see the Academic Calendar for buyback dates.

To help students cope with college affordability, RCC will aggressively pursue Open Educational Resources (OERs) to help reduce student costs. OERs are teaching and learning materials that students may use, share, and often adapt, without charge. Most OERs have been created by educators and funded by colleges and universities. Students may access the materials online at no cost or purchase a low-cost print version. Classes using OERs are clearly designated as low- or no-cost in the online schedule of classes.

## Bulletin boards and posting

Permission to post flyers and other information on RCC bulletin boards must be obtained from these offices:

- Student Services Building, Redwood Campus, 541-956-7187
- Student Services, G Building, Riverside Campus, 541-245-7764
- RCC/SOU Higher Education Center, 541-552-8100
- Table Rock Campus, Room 127, 541-245-7821

## Bus service

[www.roguecc.edu/Maps](http://www.roguecc.edu/Maps)

Regularly scheduled bus service in Grants Pass, White City and Medford is available to RCC students with a current student ID and a bus pass purchased for the term.

Transportation in Josephine County is provided by Josephine Community Transit. The service picks up and transports students to the Redwood Campus near the library. The Rogue Valley Commuter Line operates between Grants Pass and Medford with transfers available to stops in the Medford, White City and Ashland areas. Call 541-474-5452 ext. 2 for more information.

In Jackson County, Rogue Valley Transportation District provides bus service. Schedules are available at the Counseling and Advising centers. Call 541-608-2423 for more information.

## Check cashing

Tuition, books and supplies may be paid by personal check written for the exact amount.



## Community resources Jackson County

### HelpLine

[www.community-works.org/helpline](http://www.community-works.org/helpline)

541-779-4357; toll free at 1-855-216-2111

HelpLine is a free, 24-hour crisis hotline serving Jackson County. Trained volunteers and staff address domestic violence, sexual assault, panic, depression, loneliness, isolation, suicide, homelessness and other personal crisis. HelpLine also connects people in need to local crisis services including Dunn House Shelter (domestic violence) and Sexual Assault Victim Services (SAVS).

### Options for Southern Oregon

[www.optionsonline.org](http://www.optionsonline.org)

24-hour crisis line hotline: 541-774-8201

### 211 Info

[211info.org](http://211info.org) or call 211

The Oregon 211 network provides free health and community-services resource information, including a guide to understanding the Veterans Health Administration, food-support grants, a guide to migrant worker health centers, and more.

## Josephine County

### Options for Southern Oregon

[www.optionsonline.org](http://www.optionsonline.org)

24-hour crisis line hotline: 541-474-5360

Options for Southern Oregon serves people of all ages who have mental health needs.

### Women's Crisis Support Team

[www.wcstjoco.org](http://www.wcstjoco.org)

24-hour crisis line: 541-479-9349.

Business line: 541-476-3877

Women's Crisis Support Team services are designed to help survivors of abuse. Free and confidential, all services include 24-hour crisis line, support groups, court advocacy, information and referrals, children's advocacy, emergency shelter, emergency transportation, community education and more.

## Computer labs

- Coates Hall, Redwood Campus, 541-956-7424
- B Building, Riverside Campus, 541-245-7534
- RCC Library-Jackson County Central Library, 205 S. Central, Medford, 541-245-7512

- Table Rock Campus Library lab, 541-245-7820
- Table Rock Campus instructional lab, 541-245-7990
- Higher Education Center instructional lab, HEC-124 first floor

Excellent student computer facilities are available for all RCC students. Approximately 700 networked PC work stations are provided for student use. Most are connected to high-quality black and white and color laser printers.

In addition, all computers support access to the internet, email, word processors, spreadsheets, data bases, graphic illustration, and nearly 100 other computer applications. Student data files may be saved on RCC's network servers. All students must have a valid computer user ID and password to gain access to the computer network and applications.

Computer labs are open about 80 hours per week, Monday through Saturday. All computer labs with the exception of the library are staffed by aides who assist students with hardware and software use. There are also several specialized computer labs maintained by individual instructional departments to cater to the specified needs of their students.

## Copiers

Coin-operated copy machines for student use are available.

- Library, Wiseman Center, Redwood Campus
- Jackson County Central Library, Riverside Campus
- East Commons, Table Rock Campus.
- Second floor, Room 218, RCC/SOU Higher Education Center, Riverside Campus

## Distance learning – Rogue Online

<http://rogucecc.blackboard.com>

[RO@rogucecc.edu](mailto:RO@rogucecc.edu)

- Riverside Campus, 541-245-7514

Earn credits toward a degree, or brush-up on work skills from home or office by taking Rogue Online courses. For many students, distance learning courses are the solution to managing full-time enrollment and full-time life.

Distance learning courses are similar to those held in a classroom. Students have a textbook, assignments and tests, an instructor and classmates. Students do not regularly attend class

on campus but should devote at least as much time as they do for campus-based courses.

- Students must register for distance learning courses as they would for other RCC classes.
- To successfully complete a distance learning course, students need to be self-motivated, have good time management skills, and access to proper technology.
- Some distance learning courses require on-campus testing, labs or meetings.
- Because many online courses require students to watch streaming video programming, students should have access to a computer connected to the internet (preferably high speed), a web browser, and good technical skills.
- Full technical requirements may be found at [rogucecc.blackboard.com](http://rogucecc.blackboard.com).

## Getting started

Orientations are required for all RCC distance learning courses. In the majority of classes, instructors post their orientations online.

For students who are new to online learning or want to refresh their skills, technical orientation videos are posted on the Rogue Online website. Visit [go.rogucecc.edu/department/distance-learning](http://go.rogucecc.edu/department/distance-learning) and click the "Rogue Online website" link.

For more information or support call 541-245-7514.

All online teachers expect students to participate in the class during the first week of the term. Students should check the syllabus to find out what instructors expect. Students not participating during the first week of classes will be subject to the administrative drop policy.

RCC schedules network maintenance every Friday from 2 to 8 a.m. Online courses may be unavailable during these times.

## Fees

Fees for distance learning courses will be assessed at the following schedule:

1 credit course – \$10.

2 credit course – \$20.

3 credit course – \$30.

4 credit course – \$40.

NOTE: RCC's regular administrative drop policy applies to distance learning courses. For specific information on the steps needed to maintain course enrollment, visit [rogucecc.blackboard.com](http://rogucecc.blackboard.com).



## 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 serves 80 children aged 3-5 years old and their families. RCC parents who have low incomes or have children with special needs are encouraged to apply. The lab 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.

## Employer services

employment.roguecc.edu

Online job-posting services are offered at no cost to community employers. For job postings, see the RCC website or call 541-956-7091.

## Food services

- Student Center and Cafeteria, Redwood Campus
- RCC/SOU Higher Education Center, Riverside Campus
- East Commons, Table Rock Campus

Food services located at all campus locations are operated by outside vendors.

The Student Center and Cafeteria on the Redwood Campus provides a variety of lunch, breakfast and beverage options. Hours are posted. Vending machines in the Student Center offer snack items after regular hours.

A small café is located in the RCC/SOU Higher Education Center. It serves a limited variety of lunch and breakfast items, and beverages including espresso.

At the Table Rock Campus, a snack bar is located in the East Commons offering a limited variety of lunch and breakfast items, including a variety of beverages. Hours are posted.

## Health services

Health care 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. To find

information on the Oregon Insurance Marketplace, visit <https://healthcare.oregon.gov/Pages/index.aspx>.

## Instructional Media Services and IP Video Network

- Coates Hall, Redwood Campus, 541-956-7038
- G Building, Riverside Campus, 541-245-7514
- Table Rock Campus, 541-245-7826

Instructional Media Services provides equipment and media services for faculty and students. In most classrooms at RCC there is a full range of equipment installed including projector, computer, document camera, and DVD or VHS player, all within a fully programmable touch panel system. Everything is available for staff and student use for presentations and projects.

Internet Protocol (IP) video network services are also provided. They include interactive video and audio connectivity available on all RCC campuses. Through this system, classes are shared between RCC locations, meetings are conducted without participants having to drive, and connections are made to other community colleges and government agencies throughout Oregon. Web conferencing is available using the software system Zoom. This service allows participation in live classes or meetings from a computer equipped with a microphone, web cam and headphones.

## International education

International education at Rogue Community College prepares students to become globally literate and to possess cross-cultural skills necessary to function effectively in an interdependent world. To further this purpose, RCC offers instruction in world languages, international studies, and cross-cultural communication.

## Learning centers

[www.roguecc.edu/ABS](http://www.roguecc.edu/ABS)

- Riverside Campus Academic Success Center, G Building, Medford, 541-245-7701
- Illinois Valley Learning Center, Kerby Belt Bldg., Kerby, 541-956-7455
- Redwood Campus Learning Center, K Building, Grants Pass, 541-956-7253

- Learning Resource Center, Table Rock Campus, White City, 541-245-7820

General Education Development (GED), basic skills, English Language Acquisition (ELA), for adults not enrolled in college credit classes are offered at RCC learning centers.

Students must attend an Adult Basic Skills orientation to be enrolled. Contact one of the above learning centers for orientation information.

## Library Services

[www.roguecc.edu/library](http://www.roguecc.edu/library)

- Wiseman Center, Redwood Campus, 541-956-7152, Fax 541-471-3588
- 2nd floor of the Central Library, Riverside Campus, 541-245-7512, Fax 541-774-1046
- Learning Resource Center, Table Rock Campus, 541-245-7820, Fax 541-774-1046

NOTE: RCC Libraries are closed during breaks between terms. Check the library website for normal hours of operation.

The RCC Library serves the college with comprehensive library services. Students may request books and other material online through the library catalog, which can be delivered to any RCC campus for pickup. The RCC Library provides database access to thousands of online journals and e-books.

Every RCC Library branch has one or two large computer labs available for student, staff and faculty use. Lab computers access the internet, email, Microsoft Office Suite applications and online learning portals. Printing is available. WiFi, group study rooms and viewing rooms are available.

Reserve Rooms provide short-term check-out of textbooks, laptops and other material including anatomical models and cameras. Graphing calculator and bicycle locker rentals are available.

Books, journal articles, and other materials not found in the library catalog may be borrowed from other libraries around the country using an interlibrary loan service.

Information services include drop-in reference assistance, ready reference by phone and email, and in-depth research consultation. Reference librarians instruct classes in research methods and technology, conduct library orientation tours, and collaborate with faculty in designing research assignments.

## Lockers and showers

For students enrolled in physical education classes, lockers and showers are available in the Redwood Campus Gym, Grants Pass,



and in C Building on the Riverside Campus, Medford. Students must supply their own locks, towels and personal items.

Lockers and showers also are available at the RCC/SOU Higher Education Center in Medford. Lockers are available for day-use only, and students must provide their own locks.

## Mothering rooms

Facilities for nursing mothers are available to students and staff at these locations:

- Riverside Campus, B Building, 9th St. entrance.
- Redwood Campus, Gymnasium, women's locker room area.
- Table Rock Campus, Room 179.

The clean, private areas allow any breastfeeding mother on campus to breast feed or express milk. The rooms are accessible any time the buildings are open. For more information, contact Facilities and Operations.

## Parking

[www.roguecc.edu/Maps/Transportation.asp](http://www.roguecc.edu/Maps/Transportation.asp).

See pages 248-251 in this catalog for 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.
- Riverside Campus: All parking adjacent to the campus is provided by the City of Medford and monitored by Diamond Parking Services. Call 541-774-2082 for parking cost and permit information.
- Table Rock Campus: Parking is free in designated lots.

## Restrooms

Public restrooms are available at these sites:

- Redwood Campus: Cafeteria and Student Center, Coates Hall, E, F, H, K, and L buildings, Josephine Building, Rogue Building, Student Services Building, T Building, Wiseman Tutoring Center and U Building (Gym). All Gender ADA restrooms are located in the Student Center, E, H, K, L, S, T, Wiseman and Josephine buildings
- Riverside Campus: A, B, C and G buildings, Central Library, and the RCC/SOU Higher Education Center. All Gender ADA restrooms are located in B and the Higher Education Center
- Table Rock Campus: first and second floors. All Gender ADA restrooms are

available near EMT and at the NE entry.

- Business Development Center.
- Illinois Valley Learning Center.

## Security

[web.roguecc.edu/risk-management/campus-security](http://web.roguecc.edu/risk-management/campus-security)

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

Rogue Community College has contracted security officers on site at the Redwood Campus 24-hours a day, seven days a week. RWC relies on Josephine County Sheriff's Department and the Oregon State Police for law enforcement and on Rural and Metro Fire Department for fire safety services.

The Riverside Campus has security officers on site from 7 a.m. to 11 p.m., Monday through Friday and 7 a.m. to 7 p.m. on Saturdays. RVC relies on the Medford Police Department for law enforcement services and the Medford Fire Department for fire safety services.

The Table Rock Campus has security officers on site 7 a.m. to 10:30 p.m., Monday through Friday and 7 a.m. to 7 p.m. on Saturdays. TRC relies on the Jackson County Sheriff's Department for law enforcement services and Fire District 3 for fire safety services.

## Reporting crime

After contacting 911, or local law enforcement, Campus Security should be notified of all criminal activity and emergency situations on campus. Reporting can be accomplished by the following means:

- Campus Security at the Redwood Campus may be reached 24 hours per day 7 days per week via cell phone at 541-218-2930.
- Campus Security at the Riverside Campus may be reached between 7 a.m. and 11 p.m. Monday – Friday and from 7 a.m. – 7 p.m. on Saturday via cell phone at 541-218-2931.
- Campus Security at the Table Rock Campus may be reached between 7 a.m. and 10:30 p.m. Monday – Friday and between 7 a.m. and 7 p.m. on Saturday via cell phone at 541-218-3639.
- The Rogue Community College Campus Safety and Security Officer may be reached during business hours by calling 541-245-7873.
- Crime reports and incident reports submitted to Campus Security are covered under state law and are subject to public record requirements.

## 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. A list of state elected officials is available at [www.oregonlegislature.gov](http://www.oregonlegislature.gov).

## Student centers and lounges

Student centers and lounges offer space for students to relax, study and enjoy meals.

On the Redwood Campus, the Student Center is open during normal college hours. Student government offices are located in the center, as are rest rooms and a game room. Food service is available in the adjacent cafeteria; hours are posted.

On the Riverside Campus the student lounge in G Building is open during normal college hours. Student government offices, Athletics offices, and the Veterans Resource Center are located off the lounge. A student lounge and coffee bar are located in the RCC/SOU Higher Education Center.

On the Table Rock Campus, the student lounge in the East Commons provides an espresso bar and food service. Hours are posted.

## Student Employment Services

<https://www.governmentjobs.com/careers/roguecc/transferjobs>

- Redwood Campus, 541-956-7091
- Riverside Campus and Table Rock Campus, 541-245-7696

On-campus student employment is available to students enrolled in 6 or more credits and maintaining a minimum of 2.0 GPA. (Minimum GPA may be higher for some positions.) For job listings, visit <https://www.governmentjobs.com/careers/roguecc/transferjobs>.

For off-campus community positions please visit <http://employment.roguecc.edu>.

## Student housing

Rogue Community College does not provide student housing. Listings for private housing may be posted on RCC bulletin boards, or students may contact a local property management service.



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## Substance abuse referrals

Rogue Community College is a drug-free institution on all campuses. Students who would like information regarding alcohol or drug treatment agencies are urged to contact Counseling and Advising for assistance and referrals.

## Testing centers

[www.roguecc.edu/TestingServices](http://www.roguecc.edu/TestingServices)

- Wiseman Center, Redwood Campus, 541-956-7340, FAX 541-471-3534
- G Building, Room 109, Riverside Campus, 541-245-7777, FAX 541-245-7651
- Learning Resource Center, Table Rock Campus, 541-245-7820, FAX 541-245-7975

The RCC Testing Centers provide monitored supplemental testing services for RCC credit courses (makeup, retake, accommodated) and online courses. In addition, the centers offer testing services for non-RCC exams (other institutions and agencies) for a fee of \$30 per exam. Photo ID is required for all exams.

## Telecommunications Relay Service (TRS)

RCC uses Oregon TRS (Oregon Telecommunications Relay Service), a free service that assists communications between people who use text telephones (TTYs) and people who use voice telephones. Specially trained operators facilitate communications between the two callers. Each call is handled in strict confidence. Dial 711, to connect with a relay operator. The relay operator will dial the requested number and relay the conversation between the two callers. For information contact:

- Disability Services, Redwood Campus, 541-956-7337.
- Disability Services, Riverside Campus, 541-245-7537.
- Disability Services, Table Rock Campus, 541-245-7537.
- Oregon Telecom Relay Service, 711.

## Academic Success Centers

[www.roguecc.edu/tutoring](http://www.roguecc.edu/tutoring)

- Wiseman Center, Redwood Campus, Grants Pass, 541-956-7213
- G Building, Riverside Campus, Medford, 541-956-7213
- Learning Resource Center, Table Rock Campus, White City, 541-245-7820

RCC provides free, drop-in tutoring to students registered in credit courses. The primary areas of tutoring are math, writing and science, but professional tutors are prepared to assist students with most subjects. For current schedules, check the website given above.

RCC also has an online tutoring service for all RCC credit students. Visit the tutoring website for more options.

A technology center (computer lab) is located at each tutoring center. Services include assistance with a variety of subjects and computer access for any RCC student.

## Vending machines

Vending machines with drinks and snacks are available at several locations.

- Redwood Campus: Josephine Building, Rogue Building, Student Center and Cafeteria, Wiseman Tutoring Center and Y Building.
- Riverside Campus: B and G buildings and RCC/SOU Higher Education Center.
- Table Rock Campus: Located in the East Commons and Diesel area of the main building and located in the High Technology Center.

## Walking and jogging trail

The Chuck Ruckman Memorial trail is a 1.6-mile walking and jogging trail that winds through the forested area of the Redwood Campus. Ruckman was a former RCC Forestry instructor who died in a plane crash in 1985.



# Academic Success and Adult Basic Skills

## Academic Success

[www.roguecc.edu/AcademicSuccess](http://www.roguecc.edu/AcademicSuccess)

Instruction and tutoring in basic academics are available to students enrolled in credit courses. Academic Success classes prepare students for post-secondary coursework and successful participation in the job market; tutoring provides one-on-one help and guidance in basic academics and is available in person and online.

### Credit classes

Courses are offered in basic reading to prepare students for college-level courses. Academic Success also offers college-level courses in critical thinking, speed reading and vocabulary development.

Students must take a placement test to determine their academic levels before enrolling. Some Academic Success classes also may be required for certain career and technical programs.

NOTE: A student may receive federal and/or state financial aid for a maximum of 45 attempted developmental education credits (see the RCC Satisfactory Academic Progress policy for a definition of “developmental education” credits). A student who is receiving financial aid and who enrolls in necessary developmental education credits beyond 45 must notify the RCC Financial Aid office in writing so that aid may be adjusted to reflect only eligible enrollment. Notification should be given to Rogue Central on any RCC campus.

## Adult Basic Skills (ABS)

[www.roguecc.edu/ABS](http://www.roguecc.edu/ABS)

- Riverside Campus Learning Center, G Building, Medford, 541-245-7701
- Illinois Valley Learning Center, Kerby Belt Bldg., Kerby, 541-956-7455
- Redwood Campus Learning Center, K Building, Grants Pass, 541-956-7253
- Learning Resource Center, Table Rock Campus, White City, 541-245-7820

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. There is a nominal charge for services.

New and returning Adult Basic Skills students should call a learning center in their area to schedule an ABS orientation.

In addition, employers who want to provide basic skills training for their workers may

contract for services that are designed especially for their work sites. Call one of the centers listed above for more information.

### Adult Basic Skills classes

Adults who need to learn basic reading, writing and math skills may attend classes tailored for their needs or participate in guided study in a learning center with assistance from qualified instructors. Students also may use the RCC ABS learning centers for basic skills review prior to taking the college placement test.

Assessments are required during orientation to place students into the correct level of English Language Acquisition or Adult Basic Education/GED® courses or guided study programs.

### General Educational Development (GED®)

[www.roguecc.edu/GED](http://www.roguecc.edu/GED)

Students who are 16 years of age and older, and who do not have a high school diploma, may prepare to take the General Education Development (GED®) exam in English or in Spanish.

GED® instruction is \$65 a term. GED® preparation courses and guided study in English is available at all campuses.

GED® preparation in Spanish is available in a classroom setting at the Riverside Campus Learning Center, G Building.

Students who are 16 or 17 years of age must present an exemption from compulsory education from the school district in which they live before enrolling. Students who are home schooled under the auspices of the Southern Oregon Education Service District and who are 16 or 17 years of age must present a notification of home school enrollment letter and a referral for instruction.

The four-part GED® examination covers social studies, science, language arts and mathematics.

### GED® Testing

[www.roguecc.edu/GED](http://www.roguecc.edu/GED)

- Redwood Campus GED examinations, Grants Pass, 541-956-7100
- Table Rock Campus GED examinations, White City, 541-245-7808

The GED® exam is computer-based. Candidates register, schedule, and pay online at [ged.com](http://ged.com) or by calling 877-392-6433. Four tests comprise the GED® battery. The cost is \$38 per test. GED® testing is available in

White City at the Table Rock Campus and in Grants Pass at the Redwood Campus.

For an explanation of other requirements, visit the GED® website at [ged.com](http://ged.com).

### English Language Acquisition (ELA)

[www.roguecc.edu/ABS/ESL.asp](http://www.roguecc.edu/ABS/ESL.asp)

- Riverside Campus Learning Center, G Building, Medford, 541-245-7579
- Redwood Campus Learning Center, K Building, Grants Pass, 541-956-7253

English Language Acquisition (ELA) instruction is \$65 per term.

Students learn to speak, read, write and comprehend spoken English in ELA classes. They also learn to use computers and educational software with the help of qualified instructors.

### Services for employers

ELA program, Medford, 541-245-7556

Basic Skills and ELA classes can be adapted to the specific needs of employers and their employees. The Adult Basic Skills and the Customized Training departments at RCC contract with employers to satisfy their needs, design curriculum, and provide instruction. Classes can be held at the employer or employee work site or at one of the RCC campuses.

## Habilidades Básicas para Adultos (ABS)

[www.roguecc.edu/ABS](http://www.roguecc.edu/ABS)

- Riverside Campus Learning Center, G Building, Medford, 541-245-7701
- Illinois Valley Learning Center, Kerby Belt Bldg., Kerby, 541-956-7455
- Redwood Campus Learning Center, K Building, Grants Pass, 541-956-7253
- Learning Resource Center, Table Rock Campus, White City, 541-245-7820

## Clases de Habilidades Básicas para Adultos (ABS)

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



Se requieren evaluaciones durante la orientación, para colocar a los estudiantes en los niveles apropiados de las clases de Adquisición de Lenguaje de Inglés (ELA) o clases de Educación Básica para Adultos /GED (ABE/GED) o programas de estudio guiados.

## **Educación General**

### **Desarrollo (GED®) en español**

[www.roguecc.edu/GED](http://www.roguecc.edu/GED)

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 término o trimestre. Las clases de preparación para el GED® y el estudio guiado en inglés están disponibles en todos los campus.

La preparación para el GED® en español está disponible en un ambiente de aula en el campus de Riverside, en el Learning Center, Edificio G.

Los estudiantes que tienen 16 ó 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 estudios sociales, ciencias, artes del lenguaje y matemáticas.

### **Exámen de GED®**

[www.roguecc.edu/GED](http://www.roguecc.edu/GED)

- Redwood Campus GED® Examiner, Grants Pass, 541-956-7100 or 541-956- 7167
- Table Rock Campus, GED® Examiner, White City, 541-245-7808

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

El exámen consiste de cuatro pruebas en total. El costo por examen es de \$38 por cada prueba.

El exámen de GED® está disponible en:

- White City en el campus de Table Rock
- Grants Pass en el campus de Redwood.

Para una explicación de otros requisitos visite la página de internet del GED®: [ged.com](http://ged.com)

### **Adquisición del idioma inglés (ELA)**

[www.roguecc.edu/ABS/ESL.asp](http://www.roguecc.edu/ABS/ESL.asp)

- Riverside Campus Learning Center, G Building, Medford, 541-245-7579
- Redwood Campus Learning Center, K Building, Grants Pass, 541-956-7253

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

### **Servicios para Empleadores**

Programa de ELA, Medford, 541-245-7556

Las clases de Habilidades Básicas (ABS) y las clases de Adquisición del Lenguaje de Inglés (ELA) pueden ser adaptadas a las necesidades específicas de los empleadores y sus empleados. El programa de Habilidades Básicas para Adultos (ABS) 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 ser llevadas a cabo en el lugar de trabajo del empleador o del empleado, o en uno de los campus de RCC.







# Policies

## Children on campus

Only students enrolled in classes or labs may sit in on those classes or labs unless the individual instructor or department chair/coordinator makes an exception.

Other minor children who are not necessarily connected to students or employees may be on campus by invitation for a special event or class field trip. Children under high school age (14 years or younger) are not permitted on college campuses, unless directly supervised by a responsible adult.

If children are disruptive, they may be asked to leave the campus and must be escorted by one of the group leaders.

## Copyright infringement

RCC complies with all laws relating to copyright materials. See RCC Administrative Procedures at [www.roguecc.edu/administrative-procedures](http://www.roguecc.edu/administrative-procedures).

Copyright infringement occurs when a copyrighted work is reproduced, distributed, performed, publicly displayed, or made into a derivative work without the permission of the copyright owner. This includes unauthorized peer-to-peer file sharing.

Copyright infringement may subject students to civil and criminal liabilities. They may be ordered to pay actual damages or "statutory" damages of not less than \$750 and not more than \$30,000 per work infringed. For "willful" infringement, a court may award up to \$150,000 per work infringed. A court also can assess costs and attorneys' fees.

Willful copyright infringement can also result in criminal penalties, including imprisonment of up to five years and fines of up to \$250,000 per offense. For more information, visit [www.copyright.gov](http://www.copyright.gov).

RCC librarians are available to help with copyright issues. Librarians may assist in obtaining copyright permissions and in locating materials in databases that may be used without the need to get copyright permission.

## Notice of Non-Discrimination and Title IX Compliance

[www.roguecc.edu/nondiscrimination](http://www.roguecc.edu/nondiscrimination)

At the time of printing this policy and procedure were under review. For the most up-to-date information about this policy search "Title IX Compliance" at [www.roguecc.edu](http://www.roguecc.edu).

Rogue Community College is an Open Institution.

Rogue Community College does not discriminate in any programs, activities or employment practices on the basis of race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, gender identity, marital status, veteran status, disability, age, pregnancy or any other status protected under applicable federal, state or local laws.

For further policy information and for a full list of regulatory specific contact persons visit the following webpage: [www.roguecc.edu/nondiscrimination](http://www.roguecc.edu/nondiscrimination).

## Satisfactory academic standing and progress

[www.roguecc.edu/Enrollment/SASP](http://www.roguecc.edu/Enrollment/SASP)

A student is considered to be in good academic standing and making satisfactory academic progress if the student maintains at least a 2.0 grade point average (GPA) each term and a cumulative GPA of at least 2.0 and successfully passes 50 percent of credits attempted, earning A, B, C, or P grades.

## Academic warning status

A student will receive an academic warning if any of the following applies:

- 1) The student does not earn a term or cumulative GPA of 2.0.
- 2) The student does not pass 50 percent of the credits attempted for two consecutive terms of enrollment.
- 3) The student earns a grade of Z, W, D, F, or NP twice for the same class.

At the end of the first term of unsatisfactory academic progress for these reasons, a student will receive a letter from Counseling and Advising. The letter will:

- Inform and explain academic status.
- Encourage the student to schedule an appointment with a Counseling and Advising representative. The purpose of the meeting is to create an academic assistance plan and to explain the impact of continued unsatisfactory academic progress.

A student will remain in academic warning status as long as the cumulative GPA remains below 2.0.

## Academic probation status

If unsatisfactory academic progress continues, the student is placed on academic probation status.

Academic probation occurs if any of the following applies:

- 1) A student does not earn a term GPA of 2.0 for a second consecutive term of enrollment.
- 2) A student does not pass 50 percent of the credits attempted for three consecutive terms of enrollment.
- 3) A student does not earn a term GPA of 2.0 or does not pass 50 percent of the credits attempted while in academic warning status.
- 4) A student earns a grade of Z, W, D, F, or NP for the same course three times.

The status of a student placed on academic probation will be noted on his/her electronic grade report, except when probation occurs due to a student earning a grade of Z, W, D, F, NP for the same course multiple times.

A student will receive an academic status email and instructions to attend a mandatory meeting with a counselor. A student cannot register until an academic assistance plan is created with the counselor. Credit restrictions may be imposed, and/or counseling may be required. The student may be required to complete a prerequisite course for a course attempted three times unsuccessfully. Faculty from the Disability Services Office and the Counseling and Advising Department will determine appropriate action when a student does not complete the same class three times.

For any courses dropped as a result of credit restriction for the following term, the student will receive a 100 percent refund.

A student will remain in academic probation status when a term GPA of 2.0 and a successful completion rate of 50 percent of attempted credits, earning A, B, C, or P grades are achieved, but the cumulative GPA remains below 2.0.

## Academic suspension

Academic suspension is based on consecutive terms of unsatisfactory progress and is noted on a student's permanent electronic file.

A student will be academically suspended from the college if:

- 1) A student does not earn a term GPA of 2.0 for three consecutive terms of enrollment.
- 2) A student does not pass 50 percent of attempted credits for four consecutive terms of enrollment.
- 3) A combination of term GPA below 2.0 and a completion rate less than 50



percent of attempted credits for three consecutive terms.

At the end of these terms of unsatisfactory academic progress, the director of Enrollment Services will notify the student in writing that the student has been academically suspended from further enrollment in credit classes at RCC until reinstated.

A student academically suspended for the first time will not be allowed to register for credit classes for the subsequent term following academic suspension.

A student academically suspended more than once will not be allowed to register for credit classes for one full academic year beginning the term after academic suspension. A student may ask to return in the corresponding term in the next academic year. A student must appeal for reinstatement in person to the Academic Review Committee.

A student must complete an Academic Return Packet to appeal for reinstatement (forms are available on the RCC website in Forms for Students). All instructions provided in the packet must be followed precisely in order to be considered for reinstatement. The completed packet must be submitted to the Counseling and Advising chair by the deadline noted in the return packet. A student may schedule an appearance before the Academic Review Committee if desired or required.

The Academic Review Committee may be composed of the Counseling and Advising chair, the Director of Enrollment Services, an instructor, a transcript evaluator, the committee secretary, and representatives from Counseling and Advising and Financial Aid. The chair of the Academic Review Committee will notify the student of the committee's decision in writing within five days of the committee's decision.

If the committee denies the reinstatement, the student has the right to appeal the decision through the vice president of Student Services. The appeal process may be found on the RCC website. (See Students' Rights, Freedoms and Responsibilities), For questions, please contact Counseling and Advising.

Students may be eligible for the "Repeat Course" option if they passed courses they previously failed. This option takes previous lower grade or grades for a course repeated at RCC and excludes these grades from their GPA calculation. We encourage students to use this grade exclusion option as part of the academic recovery plan. However, it does not change students' academic suspension status

at RCC. See Repeating a Course at <https://web.rogucecc.edu/satisfactory-academic-standing-and-progress/getting-back-track>.

## Student rights, freedoms and responsibilities

### PREAMBLE

At the time of printing this policy and procedure were under review. For the most up-to-date information search "Student rights, freedoms and responsibilities" at [www.rogucecc.edu](http://www.rogucecc.edu).

Rogue Community College (RCC or the College) provides an environment, which encourages learning. The College is dedicated to the open exchange of knowledge and skills, growth in student capacity for critical thinking, and development of ethically sensitive and responsible students. The College recognizes that all individuals and groups at RCC have dignity and worth.

Learning and teaching are inseparable aspects of academic pursuit. Standards of academic rights and freedoms for students, as outlined below, are essential. Students have responsibilities for performance and conduct. Students' enrollment (or attempted enrollment) implies their acceptance of the responsibility to comply with college policies and procedures.

### PURPOSE

The basic purposes of the Student Rights, Freedoms and Responsibilities Statement ("Statement") are:

1. To identify fundamental provisions for students' rights and freedoms to learn, and to provide a process for resolution to alleged violations.
2. To identify student responsibilities and conduct guidelines, and to provide a process for resolution to alleged violations.

## 1. ACCESS TO THE COLLEGE AND EDUCATION

RCC believes in an open-door philosophy and within the limits of its resources, will be open to all students who are qualified according to current admissions requirements. The College complies with Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act of 1992 and other applicable laws and regulations. In compliance with state and federal

laws, RCC does not discriminate on the basis of race, color, religion, sex, pregnancy, disability, national origin, citizenship status, ancestry, age, order of protection status, genetic information, marital status, sexual orientation (including gender identity), arrest record status, military status, unfavorable discharge from military service, or any other characteristic protected by federal, state, or local law in employment, or in any of its educational programs, or in the provision of benefits and services to students.

## 2. THE CLASSROOM

In the classroom and in conference with students, the instructor should include opportunity for free discussion, inquiry, and expression related to course content. Student academic performance shall be evaluated solely on an academic basis and not on opinions or conduct in matters not related to curricular standards.

### 2.1. Protection of freedom of expression

Students are free to take reasoned exception to the material or views offered in any course at an appropriate time and in a non-disruptive manner. Students may reserve judgment about matters of opinion. However, students are responsible for satisfactory attendance and learning the content of any course in which they have enrolled and may expect their instructors to help them accomplish the goal of learning.

### 2.2. Protection against improper academic evaluation

Academic evaluation of student performance by instructors shall be based on academic performance and under no circumstances be prejudicial or capricious. At the same time, students are responsible for maintaining the standards of academic performance established by instructors for the courses in which they have enrolled.

Each instructor shall give students clearly stated written criteria for evaluation. To appeal an academic evaluation (grade) within the past year (four academic terms), a student may start the process by discussing the grade method in question with the instructor.

If a student is not satisfied with the outcome of discussion with the instructor, the student may appeal the decision to the department chair. If a student believes further appeal is warranted the student may appeal a department chair's decision to the dean, Instructional Services, of the school where the instructor's program resides. If a student



is not satisfied with the dean's decision, an appeal may be made to the vice president, Instructional Services. Any decision made by the vice president is final.

The Grade Appeal Procedure provides the student with a process for appealing a final course grade when he or she believes an improper evaluation has occurred. "Improper evaluation" is defined as: (1) the evaluation standards and grading criteria contained in the course syllabus were not followed by the instructor or (2) the final grade was imposed in an arbitrary or capricious manner.

For academic evaluation (grade) appeals applied to grades older than one year (at least five terms prior), the student may file an Academic Record Change form for this purpose. The form may be accessed at <http://web.roguecc.edu/enrollment-services/forms-students>.

### **2.3. Protection against improper disclosure**

Information about individual student views, beliefs, and political associations, which RCC staff may acquire in the course of their work as employees, is typically considered confidential. Judgments of student ability and character may be provided under appropriate circumstances. For example, recommendations for scholarships, employment, program admission, or other related academic issues.

## **3. STUDENT RECORDS**

The Family Educational Rights and Privacy Act (FERPA) provides for the protection of student records. Consistent with FERPA, RCC has published a separate procedure identifying information, considered part of a student's educational record, conditions for its disclosure, and security practices, which control access to such records as may be available for review or electronic transmission. The College accumulates data and keeps records in order to plan educational activities that meet the needs of students and to effectively advise and counsel them. Student records are used to promote instruction, for guidance, and educational progress.

Academic and disciplinary records will be maintained separately to minimize the risk of improper disclosure. Academic transcripts contain only information about academic status. No records will reflect the political activities or beliefs of students. Instructors and administrative staff will not divulge confidential information about students, which they acquire in the course of their work.

## **4. STUDENT RIGHTS**

RCC maintains certain standards to protect the rights of students through the procedures below:

### **4.1. Freedom of association**

Students bring to RCC a variety of interests. They develop new interests as members of the College community. They may organize and join collegiate clubs and organizations to promote their common interests, subject to the following considerations.

#### **4.1.1. Membership Policies**

##### **4.1.1.1: Student clubs:**

Student clubs are open to all students without regard to race, color, gender, religion, age, sex, national origin, disability, marital status, veteran status, or sexual orientation. The membership, policies, and actions of a student organization are typically determined by the vote of those individuals who hold bona fide membership in the College community.

##### **4.1.1.2: Student organizations**

Student organizations are generally affiliated with a larger, national or regional organization. Student organizations, including those affiliated with an external organization, are open to all students without regard to race, color, religion, age, sex, national origin, disability, marital status, parental status, veteran status, or sexual orientation. However, organization criteria may limit membership options. For example, grade point average may be limiting criteria.

##### **4.1.1.3: Recognition**

As a condition of the College's recognition, student organizations are required to submit to the Associated Student Government of RCC's (ASGRCC) Executive Council a statement of purpose, criteria for membership, operational procedures, current list of officers, and number of active members.

#### **4.1.2. College Advisors**

- **Student Clubs:** Student clubs typically choose their own college advisor. Clubs chartered by ASGRCC must have an advisor who is an RCC employee. College staff members serve the College community when they accept the responsibility to advise student organizations. In the course of such duties, the advisors have an obligation to protect the general interests of the College.
- **Student Organizations:** Student organizations, such as the RCC Honor Society typically have a college advisor assigned to them. College staff members serve the

College community when they accept the responsibility to advise student organizations. In the course of such duties, the advisors have an obligation to protect the general interests of the College.

### **4.2. Freedom of inquiry and expression**

Students, student clubs, and student organizations may examine and discuss all questions of interest to them and express opinions publicly and privately. They may support causes by orderly means, which do not disrupt college operations. At the same time, it should be made clear to the academic and larger community that, in their public expression, students, student clubs, and student organizations speak for themselves and not as representatives of the College or the College community.

Students, student clubs, and student organizations may invite individuals as presenters for forums outside of classes regardless of race, color, gender, religion, age, sex, national origin, disability, marital status, veteran status or sexual orientation. However, the time, place and manner of the presentation must be made in advance in consultation with the student club or organization advisor. Guest speakers and presenters, individuals or groups, who may disagree with the speakers, will not disrupt college operations. It should be made clear to RCC and the College's larger community that student sponsorship of guest presenters does not necessarily imply approval or endorsement of the views expressed either by the sponsoring group, individual, or RCC.

## **5. FREEDOM FROM DISCRIMINATION AND HARASSMENT**

At the time of printing this policy and procedure were under review. For the most up-to-date information search "Freedom from discrimination and harassment" at [www.roguecc.edu](http://www.roguecc.edu).

Students have the right to attend RCC free from discrimination and harassment. The College does not discriminate on the basis of race, religion, color, national origin, age, sex, sexual orientation, marital status or disability in employment, or in any of its educational programs, or in the provision of benefits and services to students.

### **5.1 Sexual discrimination, harassment, and assault**

All RCC students have the right to be free from sexual discrimination, sexual harass-



ment, and sexual assault. For more information on RCC's procedure for addressing sexual discrimination, harassment, or assault allegations go to the College's Administrative Procedure-047 (AP-047, Discrimination, Harassment, and Sexual Violence. AP-047 is available at <https://web.rogucecc.edu/administrative-procedures/title-IX-gender-based-and-sexual-misconduct-ap-047>. Alternatively, go to RCC's Title IX and Sexual Misconduct webpages: <https://web.rogucecc.edu/title-ix-and-sexual-misconduct> or by searching Title IX on the College website.

### 5.1.1 Title IX Coordinators

RCC has designated the following individuals as Title IX Coordinators. Any student who feels they have been the victim of sexual discrimination, harassment, or sexual assault may contact a Title IX Coordinator who will work with the student to respond to the incident. The Title IX Coordinators contact information is below.

Student Deputy Title IX Coordinator  
Chauncey Kieley  
[ckieley@rogucecc.edu](mailto:ckieley@rogucecc.edu) • 541-245-7632

Employee Deputy Title IX Coordinator  
Wendy Jones  
[wjones@rogucecc.edu](mailto:wjones@rogucecc.edu) • 541-956-7146

Title IX Coordinator  
Sean Taggart  
[staggert@rogucecc.edu](mailto:staggert@rogucecc.edu) • 541-956-7061

### 5.1.2. Counselors as a resource

If a student feels he or she has been the victim of discrimination based on any of the protected classes mentioned in Section 5, it is recommended to meet with a counselor in Counseling. Counselors are the only RCC employees who can offer confidentiality. All other employees are required to report incidents of alleged discrimination. Counselors may be reached at 541-245-7552 (Riverside Campus); 541-956-7192 (Redwood Campus) or 541-245-7863 (Table Rock Campus).

## 6. STUDENT PARTICIPATION IN COLLEGE GOVERNANCE

As members of the College community, students are free to express their views on issues of college policy and matters of general interest to the student body. Students may participate in formulating and applying policies and procedures affecting academic and student affairs through student government as well as through the various college councils and committees. If students are interested in participating, it is recommended they meet with their club or organization advisor.

Additionally, students may make presentations to the RCC Board of Education, as citizens, by contacting the Assistant to the Board of Education at 541-956-7001 and requesting to be added to the next monthly Board meeting agenda.

## 7. STUDENT PUBLICATIONS

Student publications, print or electronic, and the student press are valuable aids in establishing and maintaining an atmosphere of free and responsible discussion and intellectual exploration at the College. These are ways to bring student concerns to the attention of the faculty and college authorities and of formulating student opinion on various issues in the College, its community and the world-at-large.

RCC is legally the publisher of all recognized student publications. College authorities, in consultation with students, may provide written clarification of the role of student publications, standards used in evaluation, and degrees of operational control. At the same time, the editorial freedom granted by the College to student editors and managers entails accompanying responsibilities to be covered by the canons of responsible journalism, such as the avoidance of libel, indecency, undocumented allegations, attacks on personal integrity and the techniques of harassment and innuendo. The Code of Ethics of the Society of Professional Journalists, Sigma Delta Chi shall be adopted and used. College staff advisors have the responsibility to review copy to protect RCC from legal actions relating to obscenity, criminal or civil libel, or copyright infringement.

In addition to the rights contained in current student publication guidelines, the following provisions serve as safeguards for the editorial freedom and responsibility of student publications.

### 7.1. Censorship

Student publications and the student press are free from censorship and advance approval of copy except staff advisor review as noted above. Student editors and managers, in consultation with their advisors, should develop written procedures for editorials and news coverage.

### 7.2. Removal

Student editors and managers of student publications are protected from arbitrary suspension and removal because of student, faculty, administrative, or public disapproval of editorial policy or content.

### 7.3. Disclaimer

RCC-recognized student publications shall explicitly state on the editorial page "the opinions expressed are not necessarily those of the College or student body."

## 8. OFF CAMPUS

### 8.1. Exercise of rights of citizenship

RCC students are both citizens and members of the College community. As citizens, students have the same freedoms of speech, right to peaceful assembly, and right to petition as other citizens. As members of the College community, students are subject to the obligations which accrue to them by virtue of this membership. International students, though holding citizenship in another country, are considered members of the College community.

### 8.2. Institutional authority and civil penalties

Activities of students may sometimes result in violation of law. Students who violate the law may incur penalties prescribed by civil authorities. College authority is not used merely to duplicate the function of general laws. RCC's special authority may be asserted at those times when its interests are involved.

## 9. STUDENT CODE OF CONDUCT AND PROCEDURES

### 9.1. Student Code of Conduct

As active learners, students at RCC have the responsibility and opportunity to engage in their own learning in order to master course outcomes and achieve success both in and out of the classroom. The RCC Student Code of Conduct ensures that each member of the RCC community has an opportunity to experience success. RCC provides an environment that encourages an open, responsible, respectful exchange of opinions, ideas and information. As such, each student is expected to abide by the Student Code of Conduct as outlined below.

The following behaviors are prohibited by the Student Code of Conduct:

9.1.1. Defying college authority, engaging in willful disobedience, or otherwise disrupting the educational process. This does not prohibit students from taking reasoned

9.1.2. exception to material or views offered by instructors or others, or



expressing views relevant to the instruction in an academically appropriate and reasoned manner.

9.1.3. Academic unreliability manifested through repeated violations of academic dishonesty, furnishing false information, impersonating another, or forging, altering or misusing college documents, records or identification.

9.1.4. Threatening the safety of themselves or others, disrupting the educational process, or otherwise violating college policies or procedures.

9.1.5. Engaging in disorderly, abusive, lewd, obscene, or violent behavior. These conducts pertain to both in person and online behaviors.

9.1.6. Stealing or damaging RCC property or college community members' property, which includes, but is not limited to, course material and examinations, and students' books and supplies.

9.1.7. Using college funds, college-owned equipment, electronic resources or supplies for personal, pornographic or other unauthorized purpose.

9.1.8. Illegal or unauthorized distribution, possession, use of or being under the influence of alcohol or marijuana, illegal drugs or controlled substances on college property or at college-sponsored or supervised functions.

9.1.9. Personal or any other unauthorized possession of explosives, firearms, dangerous chemicals or other weapons on college property or at college-sponsored and supervised functions.

9.1.10. Physically or verbally abusing, coercing, menacing, threatening, intimidating or otherwise harassing any member of the College community regardless of geographic location. These conducts pertain to both in person and online behaviors.

9.1.11. Engaging in sexual misconduct. Sexual misconduct includes but is not limited to: sexual harassment, sexual assault, sexual abuse, stalking, dating violence, and domestic violence. See Administrative Procedure 47 (AP-047) on the RCC website for more information. Interpretations of the above terms may be provided by reference to law and to college policy.

#### 9.1.12. Misuse of Permission Code.

Permission Codes are given to students by instructors when a student wishes to add a class after the first week of term but before the add/drop deadline, or when a student is moved from the wait-list to being fully enrolled in the course. Students are not guaranteed a permission code – availability is subject to class size and logistical limitations. Permission Codes are to be used only by the individual given the code. Sharing a Permission Code with another student will result in both students being administratively dropped from the course.

### 9.2. Procedures for resolution of alleged violation of the RCC Student Code of Conduct

Complaints regarding alleged violation of the RCC Student Code of Conduct will be reviewed and resolved using the procedures outlined below. If the review or investigation confirms the student's violation of the RCC Student Code of Conduct, one or more disciplinary actions and sanctions listed in Section 9.3 will be imposed.

All documentation related to any such action will follow established filing procedures. These procedures will include written copies to the student and the Vice President of Student Services or Chief Student Services Officer, and a copy stored electronically in the RCC incident reporting database. Appropriate campus parties will be notified. Information about student disciplinary action is protected against improper disclosure and is not included in student academic records in accordance with FERPA and amendments.

#### 9.2.1. Direct resolution

When any member of the College community believes a student has violated one or more of the standards of the Student Code of Conduct, he or she is encouraged to seek resolution directly with the student. However, if personal safety is at risk, contact 9-1-1 or campus security personnel at 541-218-2930. All students and staff are encouraged to file an Incident Report located at: <https://roguenet.roguecc.edu/IncidentReport/>, including proposed resolution and/or action. Direct resolution is not appropriate for all cases. For example, direct resolution is not appropriate when a student is accused of a violation that relates to sexual misconduct.

#### 9.2.2. Compliance Coordinator

If resolution cannot be reached in direct manner between the College community member and the student, the complainant may contact the Compliance Coordinator by completing an Incident Report: <https://roguenet.roguecc.edu/IncidentReport/>, within three (3) working days, stating the complaint, the alleged violation of the RCC Student Code of Conduct, and other relevant information.

Within seven (7) working days of receiving the Incident Report from the College community member, the Compliance Coordinator will contact the student and other party(ies) involved regarding the complaint and resolution. The Compliance Coordinator may use multiple processes to help resolve the issue and will review the issues and actions of the parties involved, propose resolution, and determine appropriate sanction(s) for the student. Established filing procedures will be followed.

#### 9.2.3. Appeal to the Vice President of Student Services

Students receiving written notice of disciplinary action for an alleged violation of the RCC Student Code of Conduct have the right of final appeal in writing to the Vice President of Student Services within seven (7) working days for review.

Within ten (10) working days of receiving the student appeal, the Vice President of Student Services will review the complaint, investigation process, findings, and sanctions and may consult the administrative team in the review process to assure consistency and fairness within RCC. The review may include multiple processes with parties chosen by the College in resolving the issue. The Vice President of Student Services will report findings and conclusions of the final appeal to the student complainant and the RCC Compliance Coordinator. Established filing procedures will be followed.

### 9.3. Sanctions

One or more of the following sanctions may be imposed upon students who have violated the RCC Student Code of Conduct. All documentation related to any such action will be subject to established filing procedures.

#### 9.3.1. Reprimand

Any RCC staff member may initiate a reprimand with a verbal or written warning when



a student's specific conduct does not meet college standards and continuation of such conduct will result in further disciplinary action. An Incident Report and a copy of the written reprimand or documentation of a verbal reprimand will be sent to the Compliance Coordinator within two (2) working days. Established filing procedures will be followed.

#### 9.3.2. Immediate exclusion

Any RCC staff member may direct that a student be immediately excluded from RCC privileges, activities, and/or property as deemed appropriate and necessary to ensure the safety and rights of students and staff. The staff member will inform the student of the requirement for a meeting with the Compliance Coordinator to determine attendance eligibility following immediate exclusion. The staff member will file an Incident Report with the Compliance Coordinator within one (1) class day following the exclusion. Within one class day after receiving the Incident Report, the Compliance Coordinator, or his/her designee, will contact the student and schedule a meeting. The purpose of the meeting is for the following.

9.3.2.1. Share information and documentation regarding the incident and RCC Student Code of Conduct.

9.3.2.2. Attempt to resolve the problem that led to exclusion so that the student may resume attendance.

9.3.2.3. Determine appropriate disciplinary action that may be imposed.

If the student fails to attend the meeting or to respond to the Compliance Coordinator's request, the student forfeits all rights to resume attendance at RCC until such meeting occurs.

The Compliance Coordinator will communicate with all appropriate parties, in writing, the disciplinary action and/or the conditions upon which the student may resume attendance at the College. Established notification and filing procedures will be followed.

#### 9.3.3. Disciplinary Probation

The Compliance Coordinator, or designee, may direct a student to comply with specific conditions or restrictions while in attendance at RCC, in addition to the Student Code of Conduct, for a specified period of time. The Compliance Coordinator will communicate the specific behavior leading to this sanction and the specific conditions or restrictions

imposed for the specified period of time to the student, in writing. The student will sign the document provided by the College and agree to abide by its terms or forfeit all rights to continue attendance at RCC. Established filing procedures will be followed.

#### 9.3.4. Suspension

The Compliance Coordinator may direct a suspension defined as exclusion from RCC property, activities, and privileges for a fixed period of time appropriate to address the severity of the infraction. The Compliance Coordinator shall provide written notice to the student and established filing procedures will be followed.

#### 9.3.5. Expulsion

The Compliance Coordinator may direct termination of student status and denial of further college privileges. Conditions of readmission, if any, will be listed in the letter of expulsion given as a notice to the student by the Compliance Coordinator. Established filing procedures will be followed.

#### 9.3.6. Restitution

The Compliance Coordinator, in consultation with the administrative team and other parties involved, may direct restitution in addition to other disciplinary action. Restitution is defined as compensation or reimbursement for damage to or misappropriation of property, which may take the form of appropriate service to repair or otherwise compensate for damages. Conditions of restitution will be detailed in a letter to the student. Established filing procedures will be followed.

#### 9.3.7. Interim measures

The Compliance Coordinator may, to insure the safety of all students and the campus community, impose interim measures including, but not limited to a change in a student's class schedule; imposition of a "no contact" order; providing a safety escort; dropping a student from a class or classes, or any other measures as appropriate to protect a student or staff member. Such measures are temporary to insure the safety of all members of the RCC community while an investigation is conducted.

#### 9.3.8. Other

The Compliance Coordinator may impose additional sanctions or forms of disciplinary action including, but not limited to, directives for student behavior or plans of action.

## 10. STUDENT GRIEVANCE PROCEDURE

Note: If you need disability accommodations to successfully complete this process, contact the Disabilities Services Office: [web.roguecc.edu/disability-services](http://web.roguecc.edu/disability-services). On Redwood Campus, Wiseman Building, Tutoring Center, 541-956-7337 or at Riverside Campus, Building B, Room 9, 541-245-7537.

Harassment and sexual assault complaints will be filed according to AP-047, Discrimination, Harassment, and Sexual Violence. Go to [web.roguecc.edu/administrative-procedures](http://web.roguecc.edu/administrative-procedures) and find "Discrimination and Harassment" in the Table of Contents).

Grade appeals shall be filed according to procedures outlined in the Petition to Change of Academic Record Procedure section of the Change of Academic Record form: <http://www.roguecc.edu/Enrollment/forms/PetitiontoChangeAcademicRecord.pdf>).

### 10.1 Explanation

This Student Grievance Procedure provides a way for students to seek resolution to decisions, conditions and practices of RCC, its faculty and staff, which they allege are violations of this Statement, as identified, or other published college policies and procedures. As students pursue their educational goals, they will be treated with professionalism and respect by college employees or staff. An alleged violation may be referred to as a "grievance." Students shall not be retaliated against for filing a legitimate grievance.

This Student Grievance Procedure outlines the steps to resolve alleged violations of this Statement or other published college policies and procedures. Students will attempt to resolve alleged violations with the staff member(s) directly involved. Should a staff member directly involved in facilitating the resolution procedure be the object of an alleged violation or formal grievance, the College President will appoint a replacement.

### 10.2 Procedure

Students with a grievance shall follow RCC procedures to discuss, file, and resolve any grievance. The most up-to-date RCC grievance processes may be found online at <https://web.roguecc.edu/complaint-process>.

## Drug- and Alcohol-Free Campus

Rogue Community College is committed to providing an environment that fosters



excellence in learning for its students and community and in the work performance of all employees. The misuse and illegal use of alcohol, marijuana, and other drugs is contrary to this effort. In keeping with state and federal statutes, the illegal use, possession, distribution, manufacture, or sale of alcohol, cannabinoids (Marijuana), and other drugs, and/or being under the influence of alcohol,

marijuana and other drugs is not permitted on college-owned or college-controlled property. There shall be no consumption of alcohol at college-owned facilities unless such use is authorized by the College President. RCC complies with the Drug-Free Schools and Campuses Regulations (EDGAR Part 86) and the Drug-Free Workplace Act of 1990.

## Use of tobacco

[www.roguecc.edu/TPTF](http://www.roguecc.edu/TPTF)

Smoking is permitted only in designated smoking areas. All college employees, students, visitors, and contractors are required to comply with the policy. The sale, possession, or use of tobacco products by anyone under the age of 21 is prohibited by Oregon law.





# General Education Outcomes and Educational Programs Overview

## Institutional Learning Outcomes

RCC faculty have identified five Institutional Learning Outcomes (ILOs) that students should see referenced on course syllabi. These outcomes are essentially skills that have been determined to make students successful at RCC and in whatever lies beyond their RCC experience. Students may be assessed directly for achievement of these outcomes as part of regular course assessments using the following standards:

- **Application of Knowledge.** Students will synthesize and use knowledge in familiar and unfamiliar situations to effectively solve problems and complete tasks.
- **Approach to Learning.** Students will engage in and take responsibility for intentional learning, seek new knowledge and skills to guide their continuous and independent development, and adapt to new situations.
- **Communication.** Students will engage in quality communication using active listening and reading skills and expressing ideas appropriately in oral, written, and visual work.
- **Critical Thinking.** Students will think critically and creatively about problems and issues in classroom or school, home, work, and community settings to create positive, sustainable solutions.
- **Personal Growth.** Students will balance life and civic responsibilities, believe in themselves, accept and commit to change, self-reflect and be tolerant and respectful of themselves and others.

## Associate of Arts Oregon Transfer

The Associate of Arts Oregon Transfer degree clearly defines a program of study designed for students who intend to transfer to an Oregon university. By completing degree requirements (and major prerequisites if applicable) students will qualify for junior standing for registration purposes upon admission to any university in the state system.

The Associate of Arts Oregon Transfer degree can be earned by meeting the following requirements:

- Be admitted to the program.
- Complete a minimum of 90 term credits of college-level courses (a maximum of 12 career and technical credits are allowed) with a minimum grade of "C."
- Complete any required prerequisites with a minimum grade of "C."

- Complete a minimum of 24 credits toward the degree at RCC.

## General Education Outcomes

The Higher Education Coordinating Commission (HECC) has approved general education outcomes for foundational and discipline courses selected to fulfill AAOT requirements. All courses listed meet those identified outcomes. Upon successful completion of the AAOT degree, students having taken these courses will be able to do the following:

### ARTS & LETTERS

- Interpret and engage in the Arts & Letters, making use of the creative process to enrich the quality of life.
- Critically analyze values and ethics within a range of human experience and expression to engage more fully in local and global issues.

### CULTURAL LITERACY

Identify and analyze complex practices, values, and beliefs and the culturally and historically defined meanings of difference.

### INFORMATIONAL LITERACY

- Formulate a problem statement.
- Determine the nature and extent of the information needed to address the problem.
- Access relevant information effectively and efficiently.
- Evaluate information and its source critically.
- Understand many of the economic, legal, and social issues surrounding the use of information.

### MATHEMATICS

- Use appropriate mathematics to solve problems.
- Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.

### SCIENCE/COMPUTER SCIENCE

- Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions.
- Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically evaluate existing or alternative explanations, solve problems, and make evidence-based decisions in an ethical manner.

- Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.
- Contact Counseling and Advising for more specific information on programs and coursework.

### SOCIAL SCIENCE

- Apply analytical skills to social phenomena in order to understand human behavior.
- Apply knowledge and experience to foster personal growth and better appreciate the diverse social world in which we live.

### SPEECH/ORAL COMMUNICATION

- Engage in ethical communication processes that accomplish goals.
- Respond to the needs of diverse audiences and contexts.
- Build and manage relationships.

### WRITING

- Read actively, think critically, and write purposefully and capably for academic and, in some cases, professional audiences.
- Locate, evaluate, and ethically utilize information to communicate effectively.
- Demonstrate appropriate reasoning in response to complex issues.

## The Associate of Science Oregon Transfer - Business

The Associate of Science Oregon Transfer – Business degree defines a program of study to fulfill lower division general education requirements for a bachelor's degree at Oregon public universities. It is designed for students transferring to baccalaureate degree programs in a variety of business majors. Those completing the ASOT-Business degree are assured junior level standing and will have met the lower division general education requirements of any public institution in Oregon.

Students should contact the specific business school or program they will transfer to early in the first year of their ASOT-Business program to be advised about additional requirements and procedures for admission to that school or program.

The Associate of Science Oregon Transfer Business degree can be earned by meeting the following requirements:

- Be admitted to the program.
- Complete a minimum of 90 term credits of college-level courses (a maximum of 12



career and technical credits are allowed) with a minimum grade of "C."

- Complete any required prerequisites with a minimum grade of "C."
- Complete a minimum of 24 credits toward the degree at RCC.

NOTE: If students plan to complete a Bachelor of Arts (BA) degree at a four-year school, they must have a proficiency in a foreign language regardless of when they graduated from high school or equivalency program.

Students should check with the institution to which they intend to transfer, as certain majors may require additional coursework toward graduation.

## Associate of Science Oregon Transfer – Computer Science

The Associate of Science Oregon Transfer – Computer Science degree defines a program of study to fulfill lower division general education requirements for a bachelor's degree at Oregon public institutions. It 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 and will have met the lower division general education requirements of any public Oregon university.

Students should use the ASOT-Computer Science university-specific degree requirements guide for specific transfer requirements for individual schools. See an advisor for more information.

The Associate of Science Oregon Transfer – Computer Science degree can be earned by meeting the following requirements:

- Be admitted to the program.
- Complete a minimum of 90 term credits of college-level courses (a maximum of 12 career and technical credits are allowed) with a minimum grade of "C."
- Complete any required prerequisites.
- Complete a minimum of 24 credits toward the degree at RCC.

Students who have graduated from high school or completed a high school equivalency program in 1997 or after must have one of the following requirements for admission to an Oregon university:

- Two years of the same high school-level language.
- Two terms of college-level language with

a grade of "C" or better (may be first-year language which can be used as elective credits).

Note: If students plan to complete a Bachelor of Arts (BA) degree at a four-year school, they must have a proficiency in a foreign language regardless of when they graduated from high school or equivalency program.

Some schools require physics. 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.

## Associate of Science

The Associate of Science (AS) degree is designed for students transferring to baccalaureate degree programs in applied areas. The AS degree allows students to focus their studies in a particular discipline based upon signed articulation agreements with the universities that have agreed to accept RCC students. Students must work closely with advisors in their areas of interest to ensure electives are appropriate.

RCC currently has signed articulation agreements with Southern Oregon University for the following programs: Business, Computer Science, Criminal Justice, Early Childhood Development, Elementary Education, Emerging Media and Digital Arts, Health/Physical Education, Human Services, Outdoor Adventure Leadership; and with Oregon Tech for Business Management-Entrepreneurship/Small Business Management, Computer and Embedded Systems Engineering Technology, Manufacturing/Engineering Technology, Health Informatics, Information Technology, Pre-Engineering (Civil, Electrical, Mechanical, and Renewable Energy), and Software Engineering Technology.

The Associate of Science degree can be earned by meeting the following requirements:

- Be admitted to the program.
- Complete a minimum of 90 term credits of college transfer and career and technical courses with a minimum grade of "C" or "pass."
- Complete any required prerequisites with a minimum grade of "C."
- Complete a minimum of 24 credits toward the degree at RCC.

Students should be aware that if they 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.

Students who have graduated from high school or completed a high school equivalency program in 1997 or after must have one of the following requirements for admission to an Oregon university:

- Two years of the same high school-level foreign language.
- Two terms of college-level foreign language with a grade of "C" or better (may be first-year language, which can be used to partially meet the humanities elective required in the Associate of Science degree).

NOTE: If students plan to complete a Bachelor of Arts (BA) degree at a four-year school, they must have a proficiency in a foreign language regardless of when they graduated from high school or equivalency program. Students should inquire with their intended receiving institution for foreign language requirements.

## Associate of Applied Science

Students can earn an Associate of Applied Science degree in a two-year career and technical program by satisfying the following requirements:

- Be admitted to the program.
- Complete all required courses with a minimum grade of "C" or "pass." A complete list of requirements can be found in this catalog under the name of the specific program.
- Complete any required prerequisites with a minimum grade of "C."
- Complete a minimum of 24 credits toward the degree at RCC.
- Satisfactorily complete general education requirements required in all AAS degrees.

Associate of Applied Science degrees are offered in these areas:

Automotive Technology  
Business Technology  
Business Technology: Accounting Option  
Business Technology: Management and Marketing Option  
Computer Support Technician  
Criminal Justice  
Design and Digital Media  
Diesel Technology



Early Childhood Education  
 Electronics Technology  
 Family Support Services  
 Fire Science  
 Human Services  
 Industrial Welding Technology  
 Manufacturing/Engineering Technology  
 Mechatronics  
 Nursing  
 Paramedicine

## Associate of General Studies

The Associate of General Studies degree is designed to provide students the opportunity to acquire a broad education rather than pursuing a specific college major or career and technical program. The AGS degree includes, in addition to the general education courses listed below, 74-75 credits of 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 at the junior level.

Candidates for the Associate of General Studies degree must earn a minimum of 90 credits and satisfy the following requirements:

- Be admitted to the program.
- Complete any required prerequisites with a minimum grade of "C."
- Satisfactorily complete required general education courses.
- Complete a minimum of 24 credits toward the degree at RCC.

Students planning to transfer to a four-year university may select courses within the requirements of the AGS degree that

## Approved electives

The following courses may be used to fulfill AAS, ASOT-Business, and ASOT-Computer Science degree and certificate elective requirements in first aid and health, humanities, social science, and science disciplines with approval of advisor unless otherwise noted on graduation guide.

### First Aid and Health Electives

HE112 Emergency First Aid  
 HE131 Introduction to Exercise and Sport Science  
 HE250 Personal Health  
 HE252 First Aid/CPR  
 HE253 Wilderness First Aid  
 HE261 CPR/Basic Life Support Provider  
 HPE295 Health and Fitness for Life

### Humanities Electives

ART115, 116 Basic Design  
 ART131, 132, 133 Introduction to Drawing  
 ART204, 205, 206 History of Art \*  
 ASL101, 102, 103 First Year American Sign Language I, II, III  
 COMM201 Media and Society  
 COMM225 Small Group Communication and Problem Solving  
 COMM237 Communication and Gender \*  
 COMM270 Argument and Debate  
 ENG104, 105, 106 Introduction to Literature  
 ENG107, 108, 109 World Literature \*  
 ENG201, 202 Shakespeare I, II  
 ENG204, 205, 206 Survey of English Literature  
 ENG253, 254, 255 Survey of American Literature  
 ENG257 African American Literature \*  
 ENG260 Introduction to Women Writers \*  
 ENG275 The Bible as Literature

FR101, 102, 103 First Year French I, II, III  
 HUM101, 102, 103 Introduction to Humanities \*  
 HUM215, 216, 217, 218, 219 Native American Arts and Cultures \*  
 IS110 Introduction to International Studies I \*  
 MUS101 Music Fundamentals  
 MUS105 Music Appreciation  
 MUS108 Music in World Cultures  
 MUS111, 112, 113 Music Theory and Aural Skills I, II, III  
 MUS201 Introduction to Western Music  
 MUS205 History of Jazz  
 MUS206 Introduction to Rock Music  
 MUS261, 262, 263 History of Western Music, I, II, III  
 MUS264, 265, 266 History of Rock I, II, III  
 PHL101 Philosophical Problems  
 PHL102 Ethics  
 PHL103 Critical Reasoning  
 REL201 World Religions \*  
 REL243 Nature, Religion and Ecology \*  
 SP100 Basic Communication  
 SP111 Fundamentals of Public Speaking  
 SP115 Introduction to Intercultural Communication \*  
 SP218 Interpersonal Communication  
 SPAN101, 102, 103 First Year Spanish I, II, III  
 SPAN201, 202, 203 Second Year Spanish I, II, III \*  
 TA141, 142, 143 Fundamentals of Acting I, II, III  
 TA144, 145, 146 Improvisational Theater  
 TA153 Theater Rehearsal and Performance

### Social Science Electives

ANTH110 Introduction to Cultural Anthropology \*  
 ANTH150 Introduction to Archaeology  
 CJ100 Foundations and Ethics in Criminal Justice  
 CJ101 Introduction to Criminology \*\*  
 CJ110 Introduction to Law Enforcement  
 CJ120 Introduction to the Judicial Process  
 CJ130 Introduction to Corrections

CJ201 Juvenile Delinquency \*\*  
 CJ214 Criminal Justice and Diversity  
 CJ220 Law: Substantive Law and Liability  
 CJ221 Law: Constitutional Criminal Procedure  
 CJ243 Drugs, Crime and Addiction \*\*  
 ECON201 Introduction to Microeconomics  
 ECON202 Introduction to Macroeconomics  
 GEOG100 Introduction to Physical Geography \*\*\*\*  
 GEOG110 Introduction to Cultural and Human Geography \*  
 GEOG120 World Regional Geography  
 HST104 World Civilizations: Prehistory - Middle Ages  
 HST105 World Civilizations: Byzantium - Present\*  
 HST201 U.S. History through Reconstruction  
 HST202 History: Post-Reconstruction - Present  
 HST259 The Chicano/Latino Historical Experience \* \*\*  
 IS111 Introduction to International Studies II  
 PS201, 202, 203 U.S. Government I, II, III  
 PSY101 Psychology of Human Relations  
 PSY119 Psychology of Personal Growth  
 PSY201, 202 General Psychology I, II  
 PSY215 Life Span Human Development  
 PSY219 Introduction to Abnormal Psychology  
 PSY231 Human Sexuality  
 SOC204 Introduction to Sociology \*  
 SOC205 American Society \*  
 SOC213 Race and Ethnicity in the U.S. \*  
 SOC218 Sociology of Gender \*  
 SOC221 Juvenile Delinquency \*\*  
 SOC225 Social Problems and Solutions  
 SOC228 Environment and Society  
 SOC230 Introduction to Gerontology  
 SOC235 The Chicano/Latino Historical Experience \* \*\*  
 SOC243 Drugs, Crime and Addiction \*\*  
 SOC244 Introduction to Criminology \*\*

### Science Electives

BI100 Introductory Biology w/o Lab  
 BI101, 102, 103 Introduction to Biology I, II, III (non-majors) w/Lab  
 BI121, 122 Elementary Anatomy/Physiology I, II w/Lab  
 BI211, 212, 213 Principles of Biology I, II, III w/Lab  
 BI231, 232, 233 Anatomy and Physiology I, II, III w/Lab  
 BI234 Microbiology w/Lab  
 CHEM104 Introductory Chemistry w/Lab and Recitation  
 CHEM105 Introductory Organic Chemistry w/Lab  
 CHEM106 Introductory Biochemistry w/Lab  
 CHEM221, 222, 223 General Chemistry I, II, III w/Lab  
 ENV111 Introduction to Environmental Science w/o Lab  
 G100 Fundamentals of Geology w/o Lab  
 G101, 102, 103 Introduction to Geology I, II, III w/Lab  
 GS104 Physical Science w/Lab  
 GS106 Physical Science: Earth Science w/Lab  
 GS107 Astronomy w/Lab  
 GS108 Oceanography w/Lab  
 GS170 Regional Field Studies w/Lab\*\*\*  
 NFM225 Nutrition  
 PH201, 202, 203 General Physics w/Lab I, II, III  
 PH211, 212, 213 General Physics/Calculus w/Lab

\* Fulfills cultural literacy requirement for the Associate of Arts Oregon Transfer degree.

\*\* Indicates dual-numbered courses. Only one course can be counted for credit.

\*\*\* One field course allowed to meet program requirements.

\*\*\*\* GEOG100 transfers to Southern Oregon University as a non-lab science exploration course.



will apply to the following majors at OUS schools: Architecture, Art, Engineering, Pre-dental Hygiene, Pre-medical Imaging, Pre-professional Medicine (Dentistry, Medicine, Optometry, Pharmacy, Veterinary).

## Apprenticeships

Apprenticeship programs at Rogue Community College are your path to many great careers. RCC offers programs that combine part-time classroom instruction and full-time on-the-job training. Programs are competitive and include an application process and committee approval.

### Earn as you learn

Apprentices usually begin at half the salary of journey workers who have completed their training and have industry certification. Apprentices receive pay increases as they learn to perform more complex tasks. When they become journey workers, they increase their chances of finding a well-paying job in industry and may become supervisors or go into business for themselves.

### Construction Trades, General Apprenticeship

- HVAC
- Plumber
- Sheet Metal

Construction Trades Apprenticeship students can also earn Certificates and AAS degrees in all three Construction Trades programs.

### Electrician Apprenticeship Technologies

- Limited Maintenance Electrician
- Inside Electrician
- Manufacturing Plant Electrician
- Sign Maker/Erector

Electrician Apprenticeship students can also earn AAS degrees in all four Electrician programs, and certificates in Inside Electrician, Manufacturing Plant Electrician, and Sign Maker/Erector.

### Industrial Mechanics and Maintenance Technology

- Airframe and Power Plant Technician
- Boiler Operator
- Millwright

Industrial Mechanics and Maintenance Technology Apprenticeship students can also earn AAS degrees and certificates in all three Industrial Mechanics and Maintenance Technology Apprenticeship programs.

As an apprentice, you will:

- Learn to repair, install and maintain a variety of projects using trade-specific tools and techniques.
- Comply with current building codes.
- Comply with Occupational Safety and Health Administration (OSHA) regulations.
- Earn a Certificate of Completion and journey card from the Bureau of Labor and Industries.
- Have the opportunity to earn an Associate of Applied Science or Certificate by completing general education courses.

### Frequently Asked Questions

#### Q. What is Apprenticeship?

A. Apprenticeship is not just a job, but a career opportunity! It is occupational training that combines supervised on-the-job training experience with classroom instruction. When apprentices become journey workers, they increase their chances of finding a well-paying job in industry and may become supervisors or go into business for themselves.

#### Q. How long must I serve as an apprentice?

A. Typically, apprenticeships last two to five years, depending on industry requirements.

#### Q. How do I receive my on-the-job training?

A. After registering as an apprentice, you'll be assigned to an employer who is registered as a training agent with the committee. Such "training agents" have promised to provide the on-the-job training and supervision according to approved industry standards. The employer evaluates progress and makes recommendations to the apprenticeship committee regarding your advancement in the program.

#### Q. Can I expect steady work as an apprentice?

A. An apprentice works about as much as the average industry worker does. Most employers make the effort to have the apprentice work as steadily as possible.

#### Q. How do I apply for an apprenticeship program?

A. Individual apprenticeship committees notify the public when accepting applications. Apprenticeship announcements are posted at Bureau of Labor and Industries' (BOLI) offices, local schools, community colleges,

Oregon Employment Department offices, local newspapers and community organizations. Announcements contain the details about the application process.

#### Q. How long must I wait for an opening?

A. The waiting period varies by industry and may last from two weeks to two years. It is a competitive process and it's not unusual for people to apply more than once. The apprenticeship committee reviews applications for minimum qualifications. If an applicant is qualified, the application is ranked either by a test, an interview, an evaluation of past experience and education, or a random drawing. The applicant is placed on a qualified list called a pool of eligibles, in order of their ranking.

#### Q. How much pay does an apprentice receive?

A. Although it varies from industry to industry, the average starting wage of an apprentice is about 50 percent of a journey workers rate of pay. Apprentices usually earn a five-percent raise every six months if training and school performance is satisfactory.

#### Q. Are apprentices required to attend school?

A. Apprentices must attend related classroom training along with on-the-job-training experience. Most programs require approximately 144 hours of school per year. This usually works out to one or two evenings per week during the regular school year. Like other aspects of apprenticeship, the local committee determines the related training requirements according to industry standards. Apprentices can earn credit towards an associate degree at a community college for classroom hours or for the completion of an apprenticeship program.

#### Q. Are there age limits for apprentices?

A. Each industry establishes its own minimum age requirement, although the typical minimum age is 18. Except in very limited situations, there are no upper age limits on apprentices.

#### Q. What are the minimum educational requirements for apprenticeship?

A. Most apprenticeship programs require applicants to have a high school diploma or GED certificate. Some occupations require completion of specific subjects such as algebra, blueprint reading, or related shop work.



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**Q. Who pays for the classroom training?**

A. It varies among different occupations, industries and employers. In some cases, apprentices pay the cost of related training. In other cases, industry pays training costs.

**Q. What other costs must be paid by the apprentice?**

A. Costs vary by program. Apprentices must have reliable transportation to get to the job and perform work-related errands. Many

programs require the apprentice to provide a basic tool kit and/or appropriate work clothes and safety equipment, as well as books for the classes.

**Q. Can I use Veterans Benefits as an apprentice?**

A. If eligible, an apprentice may use Veterans Benefits while registered in an apprenticeship program.

**Q. How do I prepare for apprenticeship?**

A. Today's competitive industries require employees who are able to perform technical tasks, exercise good judgment, and possess a strong work ethic. The importance of a well-rounded high school education cannot be over emphasized. A strong background in math and science is important. Good attendance is a necessity.

For more information, contact the Apprenticeship department at 541-245-7912 or 541-245-7917.





## Courses that meet General Education Requirements

General Education requirements	Certificate	Associate of Applied Science	Associate of General Studies	Associate of Arts Oregon Transfer (ASOT)
<b>CREDITS</b>	Varies by program: 12 to 108 credits.	90-108 credits.	90 credits.	90 credits.
<b>Purpose</b>	Milestone for career, related to other certificates and/or degrees.	2 year Career Technical Education (CTE) degree (for employment), and labor market need.	Combination of education and career goals - not guaranteed to transfer.	Guaranteed transfer to all Oregon schools with junior standing.
	General Education	General Education	General Education	General Education
<b>Writing</b>	3-4 credits: BT113, WR115 or higher level comp.	3-4 credits: BT113, WR115 or higher level comp.	4 credits: WR121.	8 credits: WR121 and WR122 or WR227.
<b>Speech</b>		3-4 credits: SP100, SP111, SP115 or SP218.	3-4 credits/one course: SP100, SP111, SP115, SP218.	4 credits/one course: SP111, SP115, SP218.
<b>Alternatives to Writing and Speech (listed above)</b>	N/A	7-8 credits writing: WR115 and WR121 OR BT113 and BT114.		
<b>Math</b>	4 credits/one course: BT160, MTH63, MTH60 or higher level math.	4 credits/one course: BT160, MTH63, MTH60 or higher level math.	4-5 credits/one course: Math 105 or higher.	4-5 credits/one course: MTH105 or higher.
<b>Human Relations</b>	3 credits: PSY101 or BT101.	3 credits: PSY101 or BT101.	3 credits: PSY101 or BT101.	
<b>LIB127</b>	N/A	1 credit/course.	1 credit/course.	
<b>Demonstrated computer literacy</b>	0-4 credits: CS120 or documented proficiency.	0-4 credits: CS120 or documented proficiency.	0-4 credits: CS120 or documented proficiency.	
<b>Arts &amp; Letters (Humanities)</b>			3-4 credits / no more than 9 credits.	9-12 credits / three courses from two different disciplines.
<b>Social Science</b>			3-4 credits/ no more than 9 credits.	12-16 credits/ four courses from two or more disciplines.
<b>Science/Computer Science</b>			4-9 credits (lab is required).	15-20 credits / four courses from at least two disciplines including science, math and/or computer science, must include at least three lab courses in biological and/or physical sciences.
<b>Cultural Literacy</b>				3-4 credits/one course
<b>1st Aid/CPR/HPER</b>		1-3 credits.	3-4 credits/ no more than 9 credits.	3 credits (one or more classes).
<b>CWE/Practicum/Clinical</b>		3 credits.		
<b>Electives/Content Area</b>	Varies.	64-72 (as needed to bring total to 90-108).	51-57 (as needed to bring total to 90-108).	22-35 (as needed to bring total to 90).



General Education requirements	ASOT: Business	ASOT: Computer Science	Oregon Transfer Module (OTM)
CREDITS	90-108 credits.	90 credits	45 credits
Purpose	Guaranteed transfer to all Oregon schools with junior standing.	Guaranteed transfer to all Oregon schools with junior standing.	General education subset of AAOT.
	General Education	General Education	General Education
Writing	8 credits: WR121 and WR122 or WR227.	8 credits: WR121 and WR122 or WR227.	8 credits: WR121 and WR122 or WR227.
Speech	3-4 credits/one course: SP100, SP111, SP115, SP218.	3-4 credits/one course: SP100, SP111, SP115, SP218.	4 credits/one course: SP111, SP115, SP218.
Alternatives to Writing and Speech (listed above)			
Math	12-14 credits / three courses including one statistics course: (students should consult university-specific information to determine additional math requirements).	10 credits: MTH251 and MTH252.	4-5 credits/one course: Math 105 or higher.
Human Relations			
LIB127			
Demonstrated computer literacy	4 credits: BA131.	16 credits: CS160, CS161, CS162, and CS260.	
Arts & Letters (Humanities)	9-12 credits / three courses from two different disciplines.	9-12 credits / three courses from two different disciplines.	9-12 credits / three courses.
Social Science	14-16 credits/ four courses from two or more disciplines, must include ECON201 & ECON202.	12-16 credits/ four courses from two or more disciplines.	9-12 credits / three courses.
Science/Computer Science	Science: 15-20 credits / four courses from at least two disciplines, including three laboratory courses in biological and/or physical science.	Three laboratory courses in biological and/or physical science.	11-15 credits / three courses including at least one biological or physical science with a lab.
Cultural Literacy	3-4 credits/one course.	3-4 credits/one course.	3-4 credits/one course (can be embedded in Arts & Letters or Social Science above) recommended, not required.
1st Aid/CPR/HPER		3 credits (one or more classes).	
CWE/Practicum/Clinical			
Electives/Content Area	0-5 credits (as needed to bring total to 90).	6-17 (as needed to bring total to 90).	As need to bring to a minimum of 45 credits.



## Certificate programs

Career Pathways, less than one-year, and one year (three to four terms) certificate of completion programs prepare students to enter a variety of occupational fields. To qualify for one-and two-year certificates students must meet these requirements:

- Be admitted to the program.
- Complete all required courses with a minimum grade of "C" or "pass." (A complete list of requirements can be found in this catalog under the name of the specific program.)
- Complete any required prerequisites with a minimum grade of "C."
- Complete a minimum of 12 credits toward the certificate at RCC.
- Satisfactorily complete general education requirements required in all certificate programs.

### The following certificates are awarded:

Alcohol and Drug Counselor  
Automotive Specialist  
Basic Health Care  
Business Assistant  
Manufacturing/Engineering Technology:  
Computer Numerical Control (CNC)  
Technician  
Dental Assistant  
Design and Digital Media  
Diesel Specialist  
Early Childhood Education  
Electronics Technician  
Emergency Medical Services  
Family Support Services  
Fire Officer  
Fire and Life Safety  
High Technology Studies  
Industrial Welding Technology  
Massage Therapy  
Mechatronics Specialist  
Medical Administrative Assistant  
Medical Assistant  
Medical Coding Specialist  
Microcontroller Systems Technician  
Pharmacy Technician  
Practical Nursing  
Renewable Energy Technician  
Sterile Processing Technician

## Career Pathways

To qualify for less than one-year certificates or Career Pathways certificates, students must

meet the same requirements as outlined above with these exceptions:

- General education requirements may vary from those listed above.
- Complete at least 25 percent of the total credits at RCC.

The following less than one-year or Career Pathways certificates are awarded:

Business and Information Specialist  
Computer Support Technician: Computer  
Software Specialist  
Customer Service  
Design and Digital Media: Adobe ®  
Applications Technician  
Early Childhood Education (Basic)  
Early Childhood Education (Intermediate)  
Emergency Medical Services: Emergency  
Medical Technician  
Family Support Services  
Fire Science: Firefighter  
High Technology Studies: Plant Systems  
Technician  
Industrial Welding: Welder's Helper  
Massage Therapy: Entry-Level Therapist  
Manufacturing/Engineering Technology:  
Computer Numerical Control (CNC)  
Operator  
Mechatronics: Maintenance Technician  
Mechatronics: Production Technician  
Medical Assistant: Phlebotomy  
Retail Sales and Service  
Small Business Management

Career Pathways certificates of completion differ from traditional academic programs in that they are milestones on the path to degrees or certificates and are not eligible for commencement exercises. These completions will be noted on students' transcripts.

- [www.roguecc.edu/Pathways](http://www.roguecc.edu/Pathways)
- Redwood Campus, 541-956-7192
- Riverside Campus, 541-245-7552
- Table Rock Campus, 541-245-7863

Career Pathways focus on attaining certificates and degrees that lead to high-demand occupations and higher wages. A key component of Oregon's overall education, workforce development, and economic development strategies, Pathways support transitions for students coming to community college to reach their goals:

- High school to post-secondary education.
- Pre-college (ABE/GED/ELA/AS) preparation.
- Industry experience, workforce skills, and degree upgrades.

- Career seekers and changers.
- Transferring from community college to university.

Career Pathways roadmaps are a useful visual tool for exploring how continuing education leads to better jobs and wages. Visit the website listed above, and see the roadmap on page 49. Career Pathways provide opportunities to earn short-term certificates (12-44 credits) that prepare students for specific career opportunities. Career Pathways certificates can lead to completion of one-year certificates, two-year associates degrees, bachelor's and master's degrees, and employment. Students determine what path to take and work at their own pace to reach their career goals.

Specific Career Pathways certificates are available at RCC. See an academic advisor for details or visit the Career Pathways website listed above.

## Focus awards

Focus awards recognize student achievement in certain lower division collegiate interest areas and provide a way for students to deepen their knowledge of a particular subject. RCC focus awards consist of at least 18 credits, contain required core courses that must be completed at RCC, and are designed to complement the Associate of Arts Oregon Transfer degree, Associate of Science degrees, and/or the Oregon Transfer Module. Credits earned may transfer to a variety of programs at four-year colleges or universities as elective credits, program requirements, and/or graduation requirements for the receiving institution. Focus awards are developed and maintained by faculty within academic departments. They do not have official sanction or approval of the state and do not appear on student transcripts. RCC currently has one approved focus award in Sustainable Community Development (see Programs of Study section).

## Cooperative Work Experience (CWE)

Allows students to earn hands-on experience in their major area of study with local businesses while earning college credit. Cooperative Work Experience may be financial-aid eligible if it is part of an aid-eligible program. A maximum of 24 Cooperative Work Experience credits can be applied toward a degree and a maximum of 12 credits toward a certificate unless otherwise noted. Cooperative Work Experience credits must be taken within an approved program of study. Check with program advisors for additional information.



## Practicum/employment considerations

Students in such programs as Criminal Justice, Early Childhood Education, Human Services, or Nursing who have criminal records or certain physical limitations may be excluded from or limited by employers in some practicum or clinical experiences.

Students should be aware that a criminal history may be a barrier to future employment. In addition, some employers may not be able to accommodate certain physical limitations in filling positions. Students with concerns about these issues should speak directly to the department chair or program coordinator.

## Non-credit training certificates

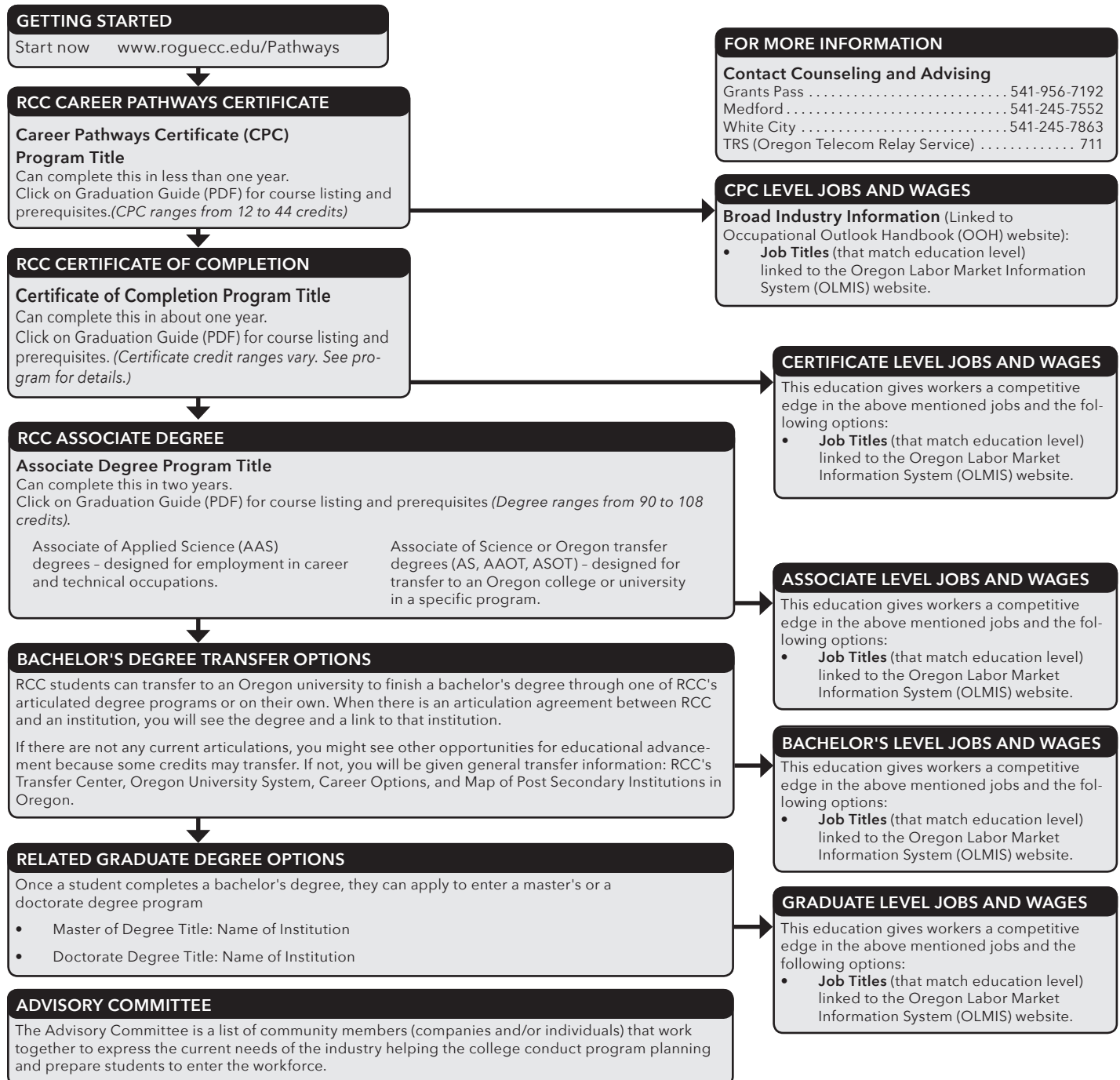
RCC currently offers two non-credit training certificates, which provide students with short-term training opportunities for jobs in high demand locally:

- Commercial Truck Driving
- Certified Production Technician

For more information, contact the Continuing Education and Workforce Development office at 541-956-7303.

## Career Pathways Roadmaps

[www.roguecc.edu/Programs/CareerPathways/](http://www.roguecc.edu/Programs/CareerPathways/)





# Transferring

## About transferring

[www.roguecc.edu/Transfer](http://www.roguecc.edu/Transfer)

- Counseling and Advising/Transfer Center, G Building, Riverside Campus, 245-7552
- Student Services Building, Redwood Campus, 956-7190 (for undeclared and/or exploring majors)

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 more than 30 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.

## 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 equivalencies with Montana State University – Northern, Oregon Tech, Southern Oregon University, Portland State University, University of Alaska/Fairbanks, 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.

## University residency requirements

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

## Reverse transfer

Students who earn a certificate or associate degree on the way to earning a bachelor's degree create a faster and more efficient track to baccalaureate achievement. Earning the degree or certificate 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 or certificate, the college will grant it. To find out if you qualify, apply for graduation at [www.roguecc.edu/Enrollment/Forms](http://www.roguecc.edu/Enrollment/Forms).

## Transfer options

Students attending RCC have several options for transfer to an Oregon public or private university.

## Associate of Arts Oregon Transfer degree (AAOT)

This degree is designed for students planning to complete an associate degree before transferring into a bachelor's degree program at one of Oregon's public universities.

The AAOT is accepted as a "block transfer" enabling students to enter as juniors with all lower division general education requirements completed. Students may be required to complete additional upper-division general education courses (courses numbered 300-400) at their transfer institutions. The AAOT, however, allows students flexibility in choosing courses to not only meet general education requirements but also courses required in their chosen academic majors.

The AAOT is not always the best choice for all majors. Some students may need to transfer after only one year at RCC in order to take essential lower-division major coursework required for the major that are offered only at the transfer school. Students should consult with their academic advisors for the best option.

The AAOT is generally accepted at selected Oregon private colleges and universities. These include Concordia University, Pacific

University, Warner Pacific University, George Fox University, Marylhurst University, and Corbin University. Additionally, the following out-of-state schools accept the AAOT: Hawaii Pacific University, Brigham Young University–Hawaii, Boise State University, Seattle Pacific University, and Washington State University.

Students are encouraged to contact the specific transfer school for the most current information.

## Associate of Science Oregon Transfer – Business (ASOT)

The Associate of Science Oregon Transfer degree in Business is designed for students transferring into business degree programs at Oregon public universities. The ASOT is accepted at all Oregon public universities as "block transfer," enabling students to enter a university with junior standing for registration purposes.

Completion of the ASOT does not guarantee admission to a specific business school or program. It is strongly recommended that students make direct contact with their business school or program for advising and admission-specific requirements prior to completing this degree.

## Associate of Science Oregon Transfer – Computer Science (ASOT)

The Associate of Science Oregon Transfer – Computer Science degree 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 and will have met the lower division general education requirements of any Oregon public university.

Completion of the ASOT does not guarantee admission to a specific computer science school or program. Students should use the ASOT-Computer Science university-specific degree requirements guide for specific transfer requirements for individual schools. See an advisor for more information.

## Associate of Science specific program articulations (AS degree)

RCC offers the Associate of Science degree in the specific areas listed below. Students completing this degree will have met all lower-division general education and academic major requirements to obtain junior status in specific programs at specific schools. Students



are strongly encouraged to work with faculty advisors in these articulated programs to ensure proper academic planning.

- Business (articulated with SOU).
- Business Management / Entrepreneurship / Small Business Management (articulated with Oregon Tech).
- Computer and Embedded Systems Engineering Technology (articulated with Oregon Tech).
- Criminal Justice (articulated with SOU).
- Computer Science (articulated with SOU).
- Early Childhood Development (articulated with SOU).
- Elementary Education (articulated with SOU).
- Emerging Media and Digital Arts (articulated with SOU).
- Pre-Engineering: Civil, Electrical, Mechanical, or Renewable Energy (articulated with Oregon Tech).
- Health and Physical Education (articulated with SOU).
- Human Services (articulated with SOU).
- Information Technology (articulated with Oregon Tech).
- Health Informatics (articulated with Oregon Tech).
- Manufacturing and Engineering Technology (articulated with Oregon Tech).
- Outdoor Adventure Leadership (articulated with SOU).
- Software Engineering Technology (articulated with Oregon Tech).

### **Associate of General Studies (AGS)**

The Associate of General Studies degree (AGS) offers students a useful alternative for direct transfer. It enables students to complete an associate degree tailored to the general education and academic major requirements of the transfer school. Educational planning for the AGS degree should be done with the assistance of academic advisors or counselors.

### **Oregon Transfer Module (OTM)**

The Oregon Transfer Module (OTM) provides a one-year curriculum for students who want to transfer to one of Oregon's public universities prior to completing a two-year degree. Students complete one year of general education courses that will be applied to the transfer university general education and academic major requirements. By fulfilling these requirements and meeting the admission standards of the transfer college, students will qualify for sophomore standing.

Students choosing this transfer option are advised to work closely with their faculty advisors to ensure selection of appropriate courses. Upon transfer, students will 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 university of their choice.

Courses in this module may also be applied to an Associate of Arts Oregon Transfer Degree (AAOT) or Associate of Science Oregon Transfer–Business degree (ASOT–Business), thus providing an additional option for students who may start on this track and decide instead to complete a two-year degree.

The Oregon Transfer Module differs from traditional certificates and degrees in that it is a milestone on the path to degree completion and is not eligible for commencement exercises. Such milestones will be noted on students' transcripts.

### **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., WR121, MTH111, 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.

### **Transfer agreements**

#### **Montana State University — Northern \***

Students completing the Associate of Applied Science degree in Diesel Technology may transfer to Montana State University – Northern (MSU-N) to pursue a Bachelor of Science degree in Diesel Technology. Students will be granted 52 semester technical credits or equivalent 78 quarter credits toward the degree, and a possible transfer of 12 semes-

ter credits towards the General Education requirements. For more information contact the RCC Diesel Technology program at 541-245-7809.

\* Renewal pending at time of catalog print.

### **Oregon Tech**

In addition to the Associate of Science programs listed above, students may complete pre-professional prerequisites for Dental Hygiene, Emergency Medical Services Management, Health Care Management, Pre- Medical Imaging Technology, Health Sciences, and Respiratory Care programs at Oregon Tech.

Students earning an Associate of Arts Oregon Transfer degree or an Associate of Applied Science degree in Human Services may transfer to the Bachelor of Science degree in Population Health Management or Applied Psychology at Oregon Tech. Students earning an Associate of Applied Science in Automotive Technology or Diesel Technology may transfer to the Technology and Management program at Oregon Tech.

### **Southern Oregon University**

Students earning a degree in areas not covered by an Associate of Science degree have the option of completing all general education coursework at RCC or enrolling at both RCC and Southern Oregon University in their academic major courses. By working with an RCC or SOU advisor, students can design a successful transfer plan. Planning ahead will save students time and money and will provide the opportunity to make a seamless transition to the university. The SOU/RCC joint enrollment program provides many advantages. Joint enrollment means RCC students have access to most SOU facilities, receive coordinated financial aid and admissions, and enjoy eligibility for SOU student or family housing as well as basic health insurance and medical treatment through the SOU Student Health Center. For more information about joint enrollment or transfer planning, call Counseling and Advising at 541-245-7552, or contact the SOU Office of Admissions, 541-552-6411, toll free at (800) 482-7672, or via email at [admissions@sou.edu](mailto:admissions@sou.edu).

### **Southern Oregon University Bachelor of Applied Science**

Southern Oregon University also offers a Bachelor of Applied Science (BAS) degree in Management for students who have completed an Associate of Applied Science degree in a technical field and want to earn a bachelor's degree. Up to 124 quarter hours may



be transferred to the BAS, and the remaining credits are completed at SOU. The BAS degree requires the completion of 180 quarter credits. If students intend to transfer to the BAS program, transfer courses should be chosen as program electives where possible. See an advisor for more information or visit [www.sou.edu/degreecompletion](http://www.sou.edu/degreecompletion).

### **University of Alaska Fairbanks**

University of Alaska Fairbanks (UAF) offers a Bachelor of Emergency Management (BEM) degree in Homeland Security and Emergency Management (HSEM). Students completing RCC's Associate of Applied Science degrees in Paramedicine, Fire Science, or Criminal Justice will receive credit for transfer into its bachelor's program. For more information contact RCC's Emergency Medical Services or Criminal Justice department at 541-245-7965.

### **University of Phoenix**

[www.phoenix.edu/rogucecc](http://www.phoenix.edu/rogucecc)

Students transferring to the University of Phoenix with a completed Associate of Arts from RCC will be considered as satisfying their lower division elective and general education requirements. While the chosen program pre-requisites and general education requirements will still need to be met, this otherwise makes the student "Required Course of Study" ready at University of Phoenix. Certain specialized programs are excluded. For additional information, contact Erin Hagemann, University of Phoenix Community Development Manager, at [Erin.Hagemann@phoenix.edu](mailto:Erin.Hagemann@phoenix.edu).

### **Western Governor's University**

Oregon Community College graduates can apply for the Go Further with WGU Grant (a competitive scholarship.) The scholarship can be used in addition to the 5 percent tuition discount. More information can be found at [www.wgu.edu](http://www.wgu.edu).

## **Affiliations**

### **Lane Community College**

RCC partners with Lane Community College 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.

For information regarding the Physical Therapy Assistant program, visit <https://www.lanecollege.edu/hp/pta>.

### **Linn-Benton Community College**

RCC partners with Linn-Benton Community College (LBCC) to provide training for occupational therapy assistants\* and surgical technician/technologists 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.

For details on the Occupational Therapy Assistant training, visit

<https://www.linnbenton.edu/future-students/programs-of-study/health-and-healthcare/ota.php#/>.

LBCC's Surgical Technologist program prepares students to work in the operating room as an integral part of the team of medical practitioners providing surgical care to patients in a variety of settings. The program prepares students to sit for the national certification exam required for licensing in the State of Oregon. Linn-Benton Community College awards a certificate in Surgical Technology, 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 Surgical Technology program can be completed. The program is structured as an online program with scheduled face-to-face labs at LBCC's Healthcare Occupations Center (HOC) in Lebanon with the possibility of some labs being scheduled locally for students (dependent upon availability of faculty and lab space and number of students in the cohort from a particular area). A 360 hour practicum work experience and 120 cases are part of the training. The practicum takes place at area hospitals and clinics. Students are responsible for transportation to and from practicum and lab sites. This program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

For details on the Surgical Technologist program training, visit <https://www.linnbenton.edu/surgical-technologist>.

\* Renewal pending at time of catalog print.



## Transfer advising and articulations

Transfer Subjects	Phone	Degree or Direct Transfer	Transfer Agreements
Architecture	541-956-7140 or 541-245-7527	AGS or Direct	
Art	541-956-7140 or 541-245-7527	AAOT, AGS or Direct	
Biological Sciences	541-956-7066 or 541-245-7527	AGS or Direct	
Business Administration	541-956-7066 or 541-245-7527	ASOT, AS or Direct	Southern Oregon University
Business Management (Entrepreneurial/ Small Business Option)	541-956-7066 or 541-245-7527	AS or Direct	Oregon Tech
Business – Oregon Transfer	541-956-7066 or 541-245-7527	ASOT or Direct	
Chemistry	541-956-7066 or 541-245-7527	AGS or Direct	
Computer Engineering Technology	541-956-7213 or 541-245-7527	AS or Direct	Oregon Tech
Computer Science	541-956-7213 or 541-245-7527	AS or Direct	Southern Oregon University
Computer Science – Oregon Transfer	541-956-7213 or 541-245-7527	ASOT or Direct	
Criminal Justice	541-245-7965	AS or Direct	Southern Oregon University
Dental Hygiene	541-956-7750 or 541-245-7750	AGS or Direct	Oregon Tech
Diesel Technology	541-245-7809	AAS or Direct	Montana State University Northern *
Early Childhood Development	541-956-7066 or 541-245-7504	AS or Direct	Southern Oregon University
Education (Elementary, Secondary)	541-956-7066 or 541- 245-7504	AS, AAOT or Direct	Southern Oregon University
Emergency Management	541-245-7965	AAS or Direct	University of Alaska Fairbanks
Emergency Medical Services Management	541-245-7965	AAS or Direct	Oregon Tech
Emerging Media and Digital Arts	541-956-7213 or 541-245-7527	AS or Direct	Southern Oregon University
Embedded Systems Engineering	541-245-7809	AS or Direct	Oregon Tech
English/Literature	541-956-7140 or 541-245-7504	AAOT, AS or Direct	
Environmental Science	541-956-7066 or 541-245-7527	AAOT or Direct	
Geology	541-956-7066 or 541-245-7527	AGS or Direct	
Health/Physical Education /Exercise Science	541-956-7504 or 541-245-7504	AS, AAOT or Direct	Southern Oregon University
Health Informatics	541-956-7213 or 541-245-7527	AS or Direct	Oregon Tech
History	541-956-7066 or 541-245-7504	AAOT or Direct	
Homeland Security and Emergency Management	541-245-7965	AAS or Direct	University of Alaska Fairbanks
Human Services	541-245-7504	AAS, AS	Southern Oregon University
Information Technology	541-956-7213 or 541-245-7527	AS or Direct	Oregon Tech
Manufacturing/Engineering Technology	541-245-7902	AAS, AS	Oregon Tech
Mathematics	541-956-7213 or 541-245-7527	AAOT or Direct	
Nursing (OHSU)	541-956-7308	AGS, AAS or Direct	
Outdoor Adventure Leadership	541-956-7140	AS or Direct	Southern Oregon University
Physics	541-956-7066 or 541-245-7527	AGS or Direct	
Pre-Dental Hygiene	541-956-7750 or 541-245-7750	AGS or Direct	Oregon Tech
Pre-Engineering	541-956-7902 or 541-245-7902	AS or Direct	Oregon Tech (AS) and Portland State (direct)
Pre-Medical Imaging Technology	541-956-7066 or 541-245-7504	AGS or Direct	Oregon Tech
Pre-Professional Medicine (Dentistry, Medicine, Optometry, Pharmacy, Veterinary Medicine)	541-956-7066 or 541-245-7527	AGS or Direct	
Psychology	541-956-7066 or 541-245-7504	AAOT or Direct	
Sociology/Social Work	541-956-7066 or 541-245-7504	AAOT or Direct	
Software Engineering Technology	541-956-7213 or 541-245-7527	AS or Direct	Oregon Tech
* Renewal pending at time of catalog print.			



# Programs of Study

Programs	Award	Credit length*
See the AAOT Graduation Guide on page 66 for additional information.	Associate of Arts Oregon Transfer	Two-year transfer degree
See the AGS Graduation Guide on page 67 for additional information.	Associate of General Studies	Two-year degree
See the OTM Graduation Guide on page 164 for additional information.	Oregon Transfer Module	One-year degree
<b>Allied Health</b>		
Basic Health Care	Certificate	Less than one year
Medical Administrative Assistant	Certificate	Less than one year
Medical Assistant	Certificate	Less than one year
Medical Coding Specialist	Certificate	Less than one year
Pharmacy Technician	Certificate	Less than one year
Sterile Processing Technician	Certificate	Less than one year
Medical Assistant: Phlebotomy	Career Pathway Certificate	One term
<b>Automotive</b>		
Automotive Technology	Associate of Applied Science	Two-year degree
Automotive Specialist	Certificate	One-year
<b>Business Technology</b>		
Business Technology	Associate of Applied Science	Two-year degree
Business Management/Entrepreneurship/Small Business Management	Associate of Science (transfer to Oregon Tech)	Two-year transfer degree
Business	Associate of Science (transfer to SOU)	Two-year transfer degree
Business	Associate of Science Oregon Transfer - Business	Two-year transfer degree
Business Assistant	Certificate	Less than one year
Business Assistant: Business and Information Specialist	Career Pathway Certificate	Less than one year
Business Assistant: Customer Service	Career Pathway Certificate	Less than one year
Business Assistant: Retail Sales and Service	Career Pathway Certificate	Less than one year
Business Assistant: Small Business Management	Career Pathway Certificate	Less than one year
<b>Computer Science and Computer Information Sciences</b>		
Computer Support Technician	Associate of Applied Science	Two-year degree
Information Technology	Associate of Science (transfer to Oregon Tech)	Two-year degree
Health Informatics	Associate of Science (transfer to Oregon Tech)	Two-year transfer degree
Software Engineering Technology	Associate of Science (transfer to Oregon Tech)	Two-year transfer degree
Computer Science	Associate of Science (transfer to SOU)	Two-year transfer degree
Emerging Media Digital Arts	Associate of Science (transfer to SOU)	Two-year transfer degree
Computer Science	Associate of Science – Oregon Transfer	Two-year transfer degree
Computer Support Technician: Computer Software Specialist	Career Pathway Certificate	Less than one year
<b>Criminal Justice</b>		
Criminal Justice	Associate of Applied Science	Two-year degree
Criminal Justice	Associate of Science (transfer to SOU)	Two-year transfer degree
<b>Dental Assisting</b>		
Dental Assisting	Certificate	One-year
<b>Design and Digital Media (formerly Graphic Design)</b>		
Design and Digital Media	Associate of Applied Science	Two-year degree
Design and Digital Media	Certificate	One-year
Design and Digital Media: Adobe® Applications Technician	Career Pathway Certificate	Less than one year
<b>Diesel Technology</b>		
Diesel Technology	Associate of Applied Science	Two-year degree
Diesel Specialist	Certificate	One-year
<b>Early Childhood Education</b>		
Early Childhood Education	Associate of Applied Science	Two-year degree
Early Childhood Development	Associate of Science (transfer to SOU)	Two-year transfer degree
Elementary Education	Associate of Science (transfer to SOU)	Two-year transfer degree
Early Childhood Education	Certificate	One-year
Early Childhood Education (Basic)	Career Pathway Certificate	Less than one year
Early Childhood Education (Intermediate)	Career Pathway Certificate	Less than one year



Programs	Award	Credit length*
<b>Electronics Technology</b>		
Electronics Technology	Associate of Applied Science	Two-year degree
Computer and Embedded Systems Engineering	Associate of Science (transfer to Oregon Tech)	Two-year transfer degree
Electronics Technician	Certificate	One-year
High Technology Studies	Certificate	One-year
Microcontroller	Certificate	One-year
Renewable Energy Technician	Certificate	One-year
High Tech Studies: Plant Systems Technician	Career Pathway Certificate	Less than one year
<b>Emergency Services</b>		
Paramedicine	Associate of Applied Science	Two-year degree
Emergency Medical Services	Certificate	Less than one year
Emergency Medical Services: EMT	Career Pathway Certificate	Less than one year
<b>Family Support Services</b>		
Family Support Services	Associate of Applied Science	Two-year degree
Family Support Services	Career Pathway Certificate	Less than one year
Family Support Services	Certificate	One-year
<b>Fire Science</b>		
Fire Science	Associate of Applied Science	Two-year degree
Fire Officer	Certificate	One-year
Fire and Life Safety	Certificate	Less than one year
Fire Science: Firefighter	Career Pathway Certificate	Less than one year
<b>Health and Physical Education</b>		
Health and Physical Education	Associate of Science (transfer to SOU)	Two-year transfer degree
Outdoor Adventure Leadership	Associate of Science (transfer to SOU)	Two-year transfer degree
<b>Manufacturing Technology</b>		
Manufacturing and Engineering Technology	Associate of Applied Science	Two-year degree
Manufacturing and Engineering Technology	Associate of Science (transfer to Oregon Tech)	Two-year transfer degree
Manufacturing and Engineering Technology : CNC Technician	Certificate	Less than one year
Manufacturing and Engineering Technology : CNC Operator	Career Pathway Certificate	Less than one year
<b>Massage Therapy</b>		
Massage Therapy	Certificate	One-year
Massage Therapy: Entry Level Therapist	Career Pathway Certificate	Less than one year
<b>Mechatronics</b>		
Mechatronics	Associate of Applied Science	Two-year degree
Mechatronics Specialist	Certificate	Less than one year
Mechatronics: Mechatronics Maintenance Technician	Career Pathway Certificate	Less than one year
Mechatronics: Production Technician	Career Pathway Certificate	Less than one year
<b>Nursing</b>		
Nursing	Associate of Applied Science	Two-year degree
Practical Nursing	Certificate	Less than one year
<b>Pre-Engineering</b>		
Pre-Engineering (Civil, Electrical, Mechanical, and Renewable Energy)	Associate of Science (transfer to Oregon Tech)	Two-year degree
<b>Social Science</b>		
Human Services	Associate of Applied Science	Two-year degree
Human Services	Associate of Science (transfer to SOU)	Two-year transfer degree
Alcohol & Drug Counselor	Certificate	One-year
Sustainable Community Development	Focus Award	Less than one year
<b>Welding</b>		
Industrial Welding Technology	Associate of Applied Science	Two-year degree
Industrial Welding Technology	Certificate	Less than one year
Industrial Welding Technology: Welder's Helper	Career Pathway Certificate	Less than one year
*Estimated, excluding required pre-requisite courses		



Interests	
Associate of General Studies	Architecture
	Art
	Biology
	Chemistry
	Geology
	Physics
	Pre- Dental Hygiene (transfer to Oregon Tech)
	Pre- Medical Imaging (transfer to Oregon Tech)
	Pre- Professional Medicine (Dentistry, Medicine, Optometry, Pharmacy, Veterinarian)
Associate of Arts Oregon Transfer	Art
	Education-Elementary
	English and Literature
	Environmental Science
	Health, Exercise Specialist and Physical Education
	History
	Math
	Psychology
	Sociology/Social Work
Apprenticeships	
Associate of Applied Science	Construction Trades, General Apprenticeship
Certificate	Construction Trades, General Apprenticeship
Associate of Applied Science	Electrician Apprenticeship Technologies
Certificate	Electrician Apprenticeship Technologies
Certificate	Electrician Apprenticeship Technologies: Limited
Associate of Applied Science	Industrial Mechanics and Maintenance Technology Apprenticeship
Certificate	Industrial Mechanics and Maintenance Technology Apprenticeship
Career Pathways Certificate	Industrial Mechanics and Maintenance Technology Apprenticeship







# Alcohol and Drug Counselor Certificate of Completion

## About the Program

Alcohol and Drug Counselor is a four-term certificate program. It is designed for individuals who have completed a bachelor's degree and need further coursework 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. Because some courses are offered only once per year, students may not be able to complete all requirements in a calendar year.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes ([www.bls.gov/SOC/](http://www.bls.gov/SOC/)), graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. For a list of learning outcomes for this discipline or program, see [www.roguecc.edu/Programs/LearningOutcomes](http://www.roguecc.edu/Programs/LearningOutcomes).

## 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 social science programs are:

Apply principals of ethical decision making in the human services field and practice ethical behavior in relation to self and others within the helping relationship.

Establish rapport and a therapeutic alliance with clients through the demonstration of empathy, genuineness, congruence, and unconditional positive regard.

Promote personal growth in self and others by practicing positive living, optimism, self-examination and willingness to change.

Exhibit sensitivity and insight into the wide variety of problems in living experienced by individuals and groups in contemporary society.

Demonstrate clinical skills of screening, assessment, treatment planning, termination and referral.

Incorporate knowledge about the interrelated effects of addictions, poverty, mental and physical illness, and homelessness on family dynamics and intimate relationships in an integrated approach to addressing issues of family and intimate partner violence, child abuse and neglect.

Demonstrate specific skills in active listening, motivational interviewing, group counseling, crisis intervention and management, and counseling chemically dependent, traumatized, mentally ill and emotionally disturbed clients, as well as those with co-occurring mental health and addictions diagnoses.

Function effectively as a member of a team in providing services, designing programs, and working collaboratively among agencies and organizations for the benefit of clients and the community.

Actively engage in continuing education, lifelong learning and pro-active self-care.

## Entry Requirements

Students must have completed a bachelor's degree from a regionally accredited institution. Human Services is a limited-entry program requiring completion of an application that includes a writing sample and personal references. For more information on how to apply, including application deadlines, visit the Human Services website, [www.roguecc.edu/humanservices](http://www.roguecc.edu/humanservices). Students should be aware that certain prerequisites may apply for core course requirements.

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.

## 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 adviser 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 certificates. Seven credits (231 hours) of documented practicum experience in an alcohol and drug treatment agency setting, supervised by a professional, is required.

## Prerequisites <sup>1</sup>

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or BT160 Business Math or higher level math	4
PSY101	Psychology of Human Relations	3
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I or higher level composition	4
<b>Total Prerequisite Credits</b>		<b>15-19</b>

## Required Courses

Course No.	Course Title	Credits
HE208	HIV and Infectious Diseases <sup>2</sup>	1
HS100	Introduction to Human Services	3
HS115	Principles of Client Record Management	1
HS155	Interviewing Theory and Techniques	4
HS158	Trauma-informed Care: Theory and Practice	3
HS170	Introduction to Practicum	3
HS175	Ethics for Counselors	1
HS202	Counseling the Chemically Dependent Client I	3
HS210	Motivational Interviewing	3
HS260	Group Counseling	4
HS261G	Human Services Practicum and Seminar <sup>3</sup>	7
HS268	Co-occurring Disorders: Introductory Theory and Counseling	3
PSY219	Introduction to Abnormal Psychology <sup>4</sup>	4
PSY231	Human Sexuality or HS204 Counseling Chemically Dependent Client II or PSY228 Introduction to Positive Psychology or SOC230 Introduction to Gerontology	3-4
SOC213	Race and Ethnicity in the U.S.	4
SOC243	Drugs, Crime and Addiction	4

**TOTAL PROGRAM CREDITS 51-52**

<sup>1</sup> Required for graduation. May include additional classes based on placement test scores.

<sup>2</sup> May be completed fall or spring term.

<sup>3</sup> May be spread out over second and third terms.

<sup>4</sup> Requires prerequisites of PSY201 and PSY202.

Grants Pass or Medford ..... 541-245-7504  
Toll free in Oregon ..... 800-411-6508, Ext. 7504  
email ..... [humanservices@roguecc.edu](mailto:humanservices@roguecc.edu)  
Web address ..... [www.roguecc.edu/humanservices](http://www.roguecc.edu/humanservices)  
TTY ..... Oregon Telecom Relay Service, 711



## Architecture Interest

### Associate of General Studies Degree

A total of 90 credits are required to complete the Associate of General Studies (AGS) degree. 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 graduation guide for full degree requirements. The following list includes recommended courses for students who have an interest in architecture, primarily focused on developing skills necessary for entry into an architecture, but may also be accepted as core required freshman architecture courses by the specific institution.

Students must research the specific requirements of the architectural program they plan to transfer into; all such programs, in Oregon and nationally, are rigorous, conservatory-based programs, requiring generally five years of full-time study, accepting limited transfer credits. Students will have to be accepted into the program before they can begin study. The great majority of the classwork is program-specific, students work in a cohort setting, and the courses are offered only at the transfer institution. Students are encouraged to work closely with their RCC academic advisors and visit the transfer school of choice website for specific admission and academic major requirements.

Course No.	Course Title	Credits
ART132	Introduction to Drawing (Line) <sup>1</sup>	3
ART204	Art History I <sup>1</sup>	4
ART205	Art History II <sup>1</sup>	4
ART206	Art History III <sup>1</sup>	4
ART276	Sculpture I <sup>1</sup>	3
DDM160	Digital Imaging (Photoshop) <sup>1</sup>	3
MTH111	College Algebra	4
MTH112	Elementary Functions	4
PH201	General Physics I with lab and recitation <sup>1</sup>	5
PH202	General Physics II with lab and recitation <sup>1</sup>	5
PH203	General Physics III with lab and recitation <sup>1</sup>	5
WR121	English Composition I	4
WR122	English Composition II	4

<sup>1</sup> University-recommended courses. Check with the specific transfer institution for more details.

Oregon public universities offering degrees in architecture:

Portland State University	www.pdx.edu
University of Oregon	www.uoregon.edu

## Art Interest

### Associate of Arts Oregon Transfer Degree

A total of 90 credits are required to complete the Associate of Arts Oregon Transfer (AAOT) degree. 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 graduation guide 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.

Course No.	Course Title	Credits	AAOT Category
ART115	Basic Design I	3	Elective
ART116	Basic Design II	3	Elective
ART131	Introduction to Drawing	3	Elective
ART204	History of Art I	4	Humanities
ART205	History of Art II	4	Humanities
ART206	History of Art III	4	Humanities
ART253,254,255	Introduction to Ceramics I, II, III	3	Elective
ART276,277,278	Sculpture I, II, III	3	Elective
ART281,282,283	Painting I, II, III	3	Elective
MTH105	Intro to Contemporary Mathematics	4	Math
SPAN201	Second Year Spanish I	4	Humanities

SPAN202	Second Year Spanish II	4	Humanities
SPAN203	Second Year Spanish III	4	Humanities

Note: Three courses required in the Humanities category. Additional courses would count as electives.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	www.eou.edu
Oregon State University	www.oregonstate.edu
Oregon State University – Cascades	www.osucascades.edu
Portland State University	www.pdx.edu
Southern Oregon University	www.sou.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

## Art Interest

### Associate of General Studies Degree

A total of 90 credits are required to complete the Associate of General Studies degree. 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 graduation guide 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.

Course No.	Course Title	Credits
ART115	Basic Design I (Composition)	3
ART116	Basic Design II (Color Theory)	3
ART131	Introduction to Drawing (Value)	3
ART132	Introduction to Drawing (Line)	3
ART198	Independent Study: Portfolio	1
ART204	History of Art I	4
ART205	History of Art II	4
ART206	History of Art III	4
ART234	Figure Drawing I	3
ART237	Illustration (Black and White Media)	3
ART253	Ceramics I	3
ART257	Beginning Jewelry and Metalsmithing	3
ART276	Sculpture I	3
ART281	Painting I	3
ART294	Watercolor I	3
	Advanced studio courses	9-12
	(ART282/283 Painting II, III, ART277/278	
	Sculpture II, III, ART235/236 Figure Drawing II, III,	
	ART254/255 Ceramics II, III, ART258/259 Intermediate/	
	Advanced Jewelry and Metalsmithing, ART295/296	
	Watercolor II, III, ART238/239 Illustration II, III)	
CIS120	Concepts in Computing I with lab	4
DDM160	Digital Imaging (Photoshop)	3
LIB127	Introduction to Academic Research	1
MTH105	Introduction to Contemporary Math or higher	4
PSY101	Psychology of Human Relations	3
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I	4
	Lab Science	4
	Social Science	4
	Physical Activity Course	3



# Associate of Arts Oregon Transfer Degree

## 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 advisers to maximize the benefits of this degree.

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. For a list of learning outcomes for this discipline or program, see [www.roguecc.edu/Programs/LearningOutcomes](http://www.roguecc.edu/Programs/LearningOutcomes).

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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.

## Foundational Skills Requirements

Course No.	Course Title	Credits
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### Writing Skills (minimum 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 WR121 and either WR122 or WR227.

WR121	English Composition I	4
WR122	English Composition II or WR227 Technical Writing	4

### Oral Communication (minimum one course required)

SP111	Fundamentals of Public Speaking	4
SP115	Intercultural Communication <sup>1</sup>	4
SP218	Interpersonal Communication	4

### Mathematics (minimum one course required; prerequisite: MTH95 or MTH96)

MTH105	Introduction to Contemporary Mathematics <sup>2</sup>	4
MTH111	College Algebra	4
MTH112	Elementary Functions	4
MTH211,212,213	Fundamentals of Elementary Math I, II, III	5-5-5
MTH243	Probability and Statistics <sup>2</sup>	4
MTH244	Inferential Statistics	4
MTH251,252,253	Calculus I, II, III	5-5-5
MTH254	Vector Calculus	5
MTH256	Differential Equations	5
MTH261	Linear Algebra	5

### Fitness/Health/Physical Education (minimum one or more courses totaling at least 3 credits)

HE112	Emergency First Aid	1
HE199	Special Studies	1
HE208	HIV and Infectious Diseases	1
HE250	Personal Health	3
HE252	First Aid/CPR	3
HE253	Wilderness First Aid	3
HE259	Care and Prevention of Athletic Injury	3
HE261	CPR/Basic Life Support Provider	1
HPE295	Health and Fitness for Life	3
PE185	Activity Courses	1-3
PE199	Special Studies	variable

## Discipline Studies Requirements

Course No.	Course Title	Credits
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### Humanities Requirement (minimum three courses from the following list chosen from at least two disciplines) <sup>4</sup>

ART204,205,206	History of Art I, II, III <sup>1</sup> (sequence recommended for art majors transferring to a university art program plus one additional course from another discipline)	4-4-4
COMM225	Small Group Communication	4
COMM237	Communication and Gender <sup>1</sup>	4
COMM270	Argumentation and Debate	3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature <sup>1</sup>	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Introduction to English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature <sup>1</sup>	4
ENG260	Introduction to Women Writers <sup>1</sup>	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities <sup>1</sup>	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures <sup>1</sup>	4-4-4-4-4
IS110	Introduction to International Studies <sup>1</sup>	4
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems, Ethics, Critical Reasoning	4-4-4
REL201	World Religions <sup>1</sup>	4
REL243	Nature, Religion and Ecology <sup>1</sup>	4
SP100	Basic Communication	3
SP111	Fundamentals of Public Speaking <sup>4</sup>	4
SP115	Intercultural Communication <sup>1, 4</sup>	4
SP218	Interpersonal Communication <sup>4</sup>	4
SPAN201,202,203	Second Year Spanish I, II, III <sup>1, 3</sup>	4-4-4

### Social Science Requirement (at least four courses from the following list chosen from at least two disciplines)

ANTH110	Introduction to Cultural Anthropology <sup>1</sup>	4
ANTH150	Introduction to Archaeology	4
CJ100	Foundations and Ethics in Criminal Justice	4
CJ214	Crime, Justice and Diversity <sup>1</sup>	4
ECON201	Principles of Microeconomics	4
ECON202	Principles of Macroeconomics	4
GEOG110	Introduction to Cultural/Human Geography <sup>1</sup>	3
GEOG120	World Regional Geography	3



HST104	World Civilizations: Prehistory - Middle Ages <sup>1</sup>	4
HST105	World Civilizations: Byzantium - Present <sup>1</sup>	4
HST201	U.S. History through Reconstruction <sup>1</sup>	4
HST202	U.S. History: Post-Reconstruction - Present <sup>1</sup>	4
PS201,202, 203	U.S. Government I, II, III	3-3-3
PSY201,202	General Psychology I, II	4-4
PSY215	Life Span Human Development	4
PSY219	Introduction to Abnormal Psychology (not recommended for psychology majors)	4
SOC204,205	Introduction to Sociology, American Society <sup>1</sup>	4-4
SOC213	Race and Ethnicity in the U.S. <sup>1</sup>	4
SOC218	Sociology of Gender <sup>1</sup>	4
SOC221/CJ201	Juvenile Delinquency	4
SOC225	Social Problems and Solutions <sup>1</sup>	4
SOC228	Environment and Society <sup>1</sup>	4
SOC235/HST259	The Chicano/Latino Historical Experience <sup>1</sup>	4
SOC243/CJ243	Drugs, Crime and Addiction	4
SOC244/CJ101	Introduction to Criminology	4

**Science/Math/Computer Science Requirement (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: 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).**

#### Lab Science Courses

BI101,102,103	Introduction to Biology I, II, III with lab (non-majors)	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM105R	Introductory Organic Chemistry Recitation	1
CHEM106	Introductory Biochemistry with lab	4
CHEM106R	Introductory Biochemistry Recitation	1
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GS104	Physical Science with lab	4
GS106	Physical Science: Earth Science with lab	4
GS107	Physical Science: Astronomy with lab	4
GS108	Physical Science: Oceanography with lab	4
GS170 *	Regional Field Studies (includes lab)	4
PH201,202,203	General Physics, I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

#### Non-lab Science/Math/Computer Science Courses

CS160	Introduction to Computer Science	4
CS161J,162J	Computer Science I, II (Java)	4-4
CS162U	Computer Science II (C++)	4
CS260	Data Structures I	4
ENV111	Introduction to Environmental Science	3
MTH105	Introduction to Contemporary Mathematics <sup>5</sup>	4
MTH111	College Algebra <sup>5</sup>	4
MTH112	Elementary Functions <sup>5</sup>	4
MTH211,212,213	Fundamentals Elementary Math I, II, III <sup>5</sup>	5-5-5
MTH243	Probability and Statistics <sup>5</sup>	4
MTH244	Inferential Statistics <sup>5</sup>	4
MTH251,252,253	Calculus I, II, III <sup>5</sup>	5-5-5
MTH254	Vector Calculus <sup>5</sup>	5
MTH256	Differential Equations <sup>5</sup>	5
MTH261	Linear Algebra <sup>5</sup>	5
NFM225	Nutrition	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.

Note: At the discretion of the department, a maximum of 12 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 advisor for more information.

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

<sup>1</sup> Meets cultural literacy criteria (one course required).

<sup>2</sup> MTH105 and MTH243 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.

<sup>3</sup> Students who have graduated from high school or completed a high school equivalency program in 1997 or after must have the following requirement for admission to a four-year Oregon university:

1) Two years of the same high school-level foreign language; or 2) two terms of college-level foreign language with a grade of "C" or better (may be first-year foreign language, which can be used as elective credits on the Associate of Arts Oregon Transfer degree). If students plan to complete a Bachelor of Arts (BA) degree at a four-year school, they must complete three terms of 200-level foreign language with a "C" or better or demonstrate a level of proficiency set forth by the four-year school. Students should inquire with their intended receiving institution for foreign language requirements.

<sup>4</sup> May be taken if not used to fulfill oral communication foundational requirement.

<sup>5</sup> May be taken if not used to fulfill mathematics foundational requirement.

For more information contact a counselor or an advisor:

Grants Pass	541-956-7192
Medford	541-245-7552
Toll free in Oregon	800-411-6508, Ext. 7192 or 7552
email	aaot@rogucecc.edu
Web address	www.rogucecc.edu
TTY	Oregon Telecom Relay Service, 711

## Associate of General Studies Degree

#### 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 fulfill AAOT degree requirements. All courses listed meet those identified outcomes. For more information see this catalog or visit [www.rogucecc.edu/general-ed-outcomes](http://www.rogucecc.edu/general-ed-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. In addition, students may also be required to enroll in classes that would increase their employability and success.

#### 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.

## General Education Requirements

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CIS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
LIB127	Introduction to Academic Research	1
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
SP100	Basic Communication <sup>1</sup> or SP111 Fundamentals of Public Speaking or SP115 Introduction to Intercultural Communication or SP218 Interpersonal Communication	3-4
MTH105	Introduction to Contemporary Math <sup>2</sup> or MTH111 College Algebra or MTH211 Fundamentals of Elementary Math or MTH243 Probability and Statistics with lab <sup>2</sup> or MTH251 Calculus I (Differential) with lab or higher level math	4-5
WR121	English Composition I	4
<b>Total General Education Credits</b>		<b>15-21</b>

## Core Requirements

Course No.	Course Title	Credits
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
—	Science/Computer Science (one lab science is required)	4-9
—	Social Science	3-9
—	Physical Education/Health	3-9
<b>Minimum Total Required Core Credits</b>		<b>18</b>

## Other Requirements

Course No.	Course Title	Credits
—	Lower division transfer and career and technical courses	51-57
<b>Total Other Credits</b>		<b>51-57</b>
<b>MINIMUM TOTAL PROGRAM CREDITS</b>		<b>90</b>

<sup>1</sup> Note: Certain Oregon universities will not accept SP100 as meeting the oral communication or speech requirement. If you plan to transfer to an Oregon university, ask your advisor if completing the AAOT Oregon Transfer Degree may be your best option.

<sup>2</sup> MTH105 and MTH243 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 a counselor or an advisor at:

Grants Pass ..... 541-956-7192  
 Medford ..... 541-245-7552  
 Toll free in Oregon ..... 800-411-6508, Ext. 7192 or 7552  
 email ..... [ags@rogucecc.edu](mailto:ags@rogucecc.edu)  
 Web address ..... [www.rogucecc.edu](http://www.rogucecc.edu)  
 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.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.rogucecc.edu/GainfulEmployment](http://www.rogucecc.edu/GainfulEmployment).

### 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 automotive technology are:

- Diagnose and repair all major vehicle systems.
- Document repairs of vehicles accurately and descriptively of concern, cause and correction.
- Effectively locate and utilize technical information required for vehicle repairs.
- Work safely and responsibly within all shop standards and environmental guidelines.
- Successfully pass at least two Automotive Service Excellence (ASE) technical skill assessments.
- Function collaboratively as a member of a team to achieve specified and measurable results.
- Demonstrate comprehensive knowledge of employer expectations and ethical work practice.
- Demonstrate accuracy, proficiency and quality in task performance.
- Strategize professional growth in automotive industry.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### 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.



## Prerequisites

Course No.	Course Title	Credits
MTH20	Pre-algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
<b>Total Prerequisite Credits</b>		<b>0-7</b>

## General Education Requirements

Course No.	Course Title	Credits
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
HE112	Emergency First Aid	1
WR121	English Composition I	4
<b>Total General Education Requirements</b>		<b>12-16</b>

## Technical Requirements

Course No.	Course Title	Credits
<b>First Term</b>		
AM120	Automotive Maintenance and Trades Practices	6
AM122	Gasoline Engines Rebuild	7
		13
<b>Second Term</b>		
AM111	Electricity for Automotive Technicians	7
AM131	Engine Dynamics and Diagnosis	7
		14
<b>Third Term</b>		
AM141	Manual Transmissions and Axles	6
AM151	Automotive Brake Systems	6
		12
<b>Fourth Term (Summer)</b>		
AM190	Automotive Repair Lab I	4
		4
<b>Total Technical Credits</b>		<b>43</b>
<b>TOTAL PROGRAM CREDITS</b>		<b>55-59</b>

For more information contact the Automotive Technology Department:  
 Grants Pass or Medford ..... 541-956-7140  
 Toll free in Oregon ..... 800-411-6508, Ext. 7140  
 email ..... [automotivetech@rogucecc.edu](mailto:automotivetech@rogucecc.edu)  
 Web address ..... [www.rogucecc.edu/automotive](http://www.rogucecc.edu/automotive)  
 TTY ..... Oregon Telecom Relay Service, 711

## Automotive Technology Associate of Applied Science Degree

### 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 <http://www.oit.edu/academics/academic-agreements/articulations>.

## 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 automotive technology are:

- Diagnose and repair all major vehicle systems.
- Document repairs of vehicles accurately and descriptive of concern, cause, and correction.
- Effectively locate and utilize technical information required for vehicle repairs.
- Work safely and responsibly within all shop standards and environmental guidelines.
- Successfully pass at least two Automotive Service Excellence (ASE) technical skill assessments.
- Function collaboratively as a member of a team to achieve specified and measurable results.
- Demonstrate comprehensive knowledge of employer expectations and ethical work practice.
- Demonstrate accuracy, proficiency and quality in task performance.
- Strategize professional growth in automotive industry.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success. 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.

## Prerequisites

Course No.	Course Title	Credits
MTH20	Pre-algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
<b>Total Prerequisite Credits</b>		<b>0-7</b>

## General Education Requirements

Course No.	Course Title	Credits
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
HE112	Emergency First Aid or HE261 CPR/Basic Life Support Provider	1
LIB127	Introduction to Academic Research	1
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
SP100	Basic Communication or SP111 Fundamentals of Public Speaking or SP218 Interpersonal Communication or	



WR121	WR122 English Composition II	3-4
	English Composition I	4
<b>Total General Education Credits</b>		<b>16-21</b>

## First Year Technical Requirements

Course No.	Course Title	Credits
<b>First Term</b>		
AM120	Automotive Maintenance and Trades Practices	6
AM122	Gasoline Engines Rebuild	7
		13
<b>Second Term</b>		
AM111	Electricity for Automotive Technicians	7
AM131	Engine Dynamics and Diagnosis	7
		14
<b>Third Term</b>		
AM141	Manual Transmissions and Transaxles	6
AM151	Automotive Brake Systems	6
		12
<b>Fourth Term (Summer)</b>		
AM190	Automotive Repair Lab I <sup>1</sup>	4
AM270	Air Conditioning for Automotive Technicians	5
		9
<b>Total First Year Credits</b>		<b>48</b>

## Second Year Technical Requirements <sup>2</sup>

Course No.	Course Title	Credits
<b>Fifth Term</b>		
AM160	Automotive Suspension and Steering Systems	6
AM232	Computerized Engine Management Systems	7
		13
<b>Sixth Term</b>		
AM233	Advanced Automotive Computer Systems	7
AM242	Automatic Transmissions and Transaxles	7
		14
<b>Seventh Term</b>		
AM210	Mechanical Careers Development or BA109 Ready, Set, Work: Techniques for Landing a Job	2-3
AM252	Advanced Diagnostic Lab	4
AM280	Cooperative Work Experience/Automotive or AM290 Automotive Repair Lab II <sup>2</sup>	4
		10-11
<b>Total Second Year Credits</b>		<b>37-38</b>
<b>TOTAL PROGRAM CREDITS</b>		<b>101-107</b>

## Approved Program Electives

Course No.	Course Title	Credits
AM199	Selected Topic Workshop	1

<sup>1</sup> Can be taken anytime during the program with permission of adviser.

<sup>2</sup> Students must be making progress in completing general education requirements prior to entry into the second year.

For more information contact the Automotive Technology Department:

Grants Pass or Medford ..... 541-956-7140  
Toll free in Oregon ..... 800-411-6508, Ext. 7140  
email ..... [automotivetech@rogucecc.edu](mailto:automotivetech@rogucecc.edu)  
Web address ..... [www.rogucecc.edu/Automotive](http://www.rogucecc.edu/Automotive)  
TTY ..... Oregon Telecom Relay Service, 711

## Basic Health Care Certificate of Completion

### About the Program

The Basic Health Care two term certificate prepares students for work in entry-level positions in the health care industry. Students gain knowledge and skills pertinent to work in the medical industry and are provided a basis of preparation to pursue further training and employment in allied health career fields and beyond. This certificate is unique in that it provides a diverse range of electives allowing students to select from a variety of specialty tracks that guide them toward completion of an additional certificate or degree program.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.rogucecc.edu/GainfulEmployment](http://www.rogucecc.edu/GainfulEmployment).

Additionally, the program provides support to health care employers through professional development for support workers in academic, personal effectiveness, workplace, and industry-wide technical health care competencies.

### 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 program are:

- Communicate effectively with awareness and sensitivity to diverse populations and needs.
- Practice self-care in order to manage workplace stressors.
- Developed ability to make effective decisions in a complex and dynamic environment.
- Craft a professional style that integrates responsibility, accountability, respect and teamwork.
- Foster and develop competency with regulations and language in healthcare systems.
- Sharpen self-confidence and diplomacy within a professional skills set in order to advocate for the patient.
- Excel at computer skills required for job performance.
- Match natural abilities and interests with attributes and requirements for success in healthcare careers in order to identify and pursue potential career pathways.
- Gain awareness of current issues and trends within the healthcare industry as well as the knowledge to locate current information concerning these topics.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

It is important that students work closely with an adviser to select courses appropriate to their career goals. Students who are enrolled in the Basic Health Care certificate are not given advanced placement into limited-entry programs described in the specialty tracks. Some tracks have limits and restrictions that could impede placement.

### Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies and the program coordinator's approval. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the program coordinator before being accepted toward core requirements. Each College Now credit student must meet with the coordinator 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.



## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8
<b>Total Prerequisite Credits</b>		<b>0-16</b>

## Required Courses

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
BI100SB	Biology of Human Body Systems <sup>1</sup>	3
CG155	Exploring Careers in Health Care <sup>2</sup> or BT101 Human Relations in Organizations or PSY101 Psychology of Human Relations	3
HCI120	Introduction to Health Care Industry <sup>2</sup> Health Electives (choose 3 to 4 credits from the following courses): HE112 Emergency First Aid HE250 Personal Health HE252 First Aid/CPR HE261 CPR/Basic Life Support Provider HPE295 Health and Fitness for Life PSY215 Life Span Human Development	3
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition Approved specialty track electives	3-4 6-10

**TOTAL PROGRAM CREDITS** **24-30**

## Specialty Track Electives (6-10 credits required)

Electives have been organized into tracks that will lead toward additional certifications or degrees. 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. Some specialty tracks listed require admission through a limited-entry application process that could restrict student accessibility.

### Community Health Worker (6 credits)

HC100	Community Health Worker	6
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### Dental Assisting (Choose 8-9 credits)

BI211	General Biology I with lab	4
CHEM104	Introductory Chemistry I with lab and recitation	5
SP111	Fundamentals of Public Speaking	4
SRV101	Service Learning	1

### EMT/Paramedic 1 (10 credits)

ES131, ES131L	Emergency Medical Technician Part I and Lab	4-1
ES132, ES132L	Emergency Medical Technician Part II and Lab	4-1

### Exercise Specialist 1 (8 credits)

NFM225	Nutrition	4
SOC230	Introduction to Gerontology or PSY215 Life Span Human Development (if not taken as part of core)	4

### Health Care Informatics (6 credits)

HCI210	Legal Aspects of Medical Records	3
HCI255	Introduction to Health Care Informatics	3

### Human Services (Choose 7-8 credits)

CJ243/SOC243	Drugs, Crime and Addiction	4
HS158	Trauma-informed Care: Theory and Practice	3
SOC230	Introduction to Gerontology	4
PSY201	General Psychology I	4

### Massage Therapy <sup>1, 3</sup> (Choose 6-10 credits)

BI121	Elementary Anatomy and Physiology I with lab (if not taken as part of core)	4
MT100	Massage I – Basic Swedish <sup>3</sup>	3
MT101	Asian Bodywork I <sup>3</sup>	2
NFM225	Nutrition	4

### Medical Administrative Assistant (Choose 6-10 credits)

CG144	Introduction to Assertiveness	1
EMS165	Introduction to Pharmacology for Health Occupations	2
SPAN101/102/103	First Year Spanish I, II, III	4-4-4
SRV101	Service Learning	1

### Medical Assistant (Choose 6-10 credits)

AH110	Medical Terminology: Clinical	3
BT111	Conflict Management	2
CG144	Introduction to Assertiveness	1
CG155	Exploring Careers in Health Care (if not taken as part of core)	3
SP100	Basic Communication	3
SRV101	Service Learning	1
WR110	Understanding English Grammar	2

### Medical Coding Specialist (Choose 7-10 credits)

CG155	Exploring Careers in Health Care (if not taken as part of core)	3
CIS125SS	Spreadsheet Applications	4
SOC213	Race and Ethnicity in the U.S.	4
SPAN101/102/103	First Year Spanish I, II, III	4-4-4

### Nursing 1 (Choose 8 credits)

BI211	General Biology I with lab	4
NFM225	Nutrition	4
PSY201	General Psychology I	4
SP111	Fundamentals of Public Speaking	4

### Pharmacy Technician (Choose 6-10 credits)

CG144	Introduction to Assertiveness	1
CG155	Exploring Careers in Health Care (if not taken as part of core)	3
SPAN101/102/103	First Year Spanish I, II, III	4-4-4
SRV101	Service Learning	1
WR110	Understanding English Grammar	2

### Sterile Processing Technician (7-8 credits)

BI234	Microbiology with lab	4
CG155	Exploring Careers in Health Care (if not taken as part of core)	3
SPAN101/102/103	First Year Spanish I, II, III	4-4-4
SRV101	Service Learning	1

<sup>1</sup> Some programs require higher-level anatomy and physiology coursework (BI121/BI122 or BI231/BI232/BI233). See specific program graduation guides for details. Students who have completed either BI121 and BI122 or BI231, BI232 and BI233 (the entire sequence of either series) with an equivalent "C" or better grade do not need to take BI100SB.

<sup>2</sup> Corequisite: WR115.

<sup>3</sup> Massage courses are available only with instructor approval and are limited in availability.

For more information contact the Allied Health Department:

Grants Pass or Medford. . . . . 541-245-7841  
Toll free in Oregon . . . . . 800-411-6508, Ext. 7841  
email . . . . . alliedhealth@rogucecc.edu  
Web address . . . . . www.rogucecc.edu/alliedhealth  
TTY . . . . . Oregon Telecom Relay Service, 711



## Biology Interest

### Associate of General Studies Degree

A total of 90 credits are required to complete the Associate of General Studies (AGS) degree. 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 graduation guide 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.

Course No.	Course Title	Credits	AGS Category
BI211	General Biology I	4	Science
BI212	General Biology II	4	Science
BI213	General Biology III	4	Science
CHEM105	Introductory Organic Chemistry	4	Science
CHEM105R	Introductory Organic Chemistry Recitation	1	Science
CHEM106	Introductory Biochemistry	4	Science
CHEM106R	Introductory Biochemistry Recitation	1	Science
CHEM221	General Chemistry I	5	Science
CHEM222	General Chemistry II	5	Science
CHEM223	General Chemistry III	5	Science
MTH243	Probability and Statistics	4	Math
MTH251	Calculus I	5	Math
MTH252	Calculus II	5	Math
PH201	General Physics I	5	Science
PH202	General Physics II	5	Science
PH203	General Physics III	5	Science
WR227	Technical Writing	4	Elective

Note: Four courses required in the Science/Math category, additional courses would count as electives.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	www.eou.edu
Oregon Tech	www.oit.edu
Oregon State University	www.oregonstate.edu
Southern Oregon University	www.sou.edu
Portland State University	www.pdx.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

## 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.

#### 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 business programs are:

**Business Ethics:** Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

**Communication/Information Literacy:** Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience and situation.

**Critical Evaluation/Decision Making:** Demonstrate critical thinking and problem-solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

**Interpersonal Skills:** Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

#### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

#### 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.

#### General Requirements 27-30

Course No.	Course Title	Credits
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#### Writing Skills (two courses required) 8

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 WR121 and either WR122 or WR227.

WR121	English Composition I and	4
WR122	English Composition II or	
	WR227 Technical Writing	4

#### Oral Communication (one course required) 3-4

SP100	Basic Communication <sup>1</sup>	3
SP111	Fundamentals of Public Speaking	4
SP115	Intercultural Communication <sup>1,2</sup>	4
SP218	Interpersonal Communication	4

#### Mathematics (three courses required) 12-14

Students should consult university-specific information to determine any additional mathematics requirements.

MTH243	Probability and Statistics	4
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Plus two additional math courses from the following list:

MTH111	College Algebra	4
MTH112	Elementary Functions	4
MTH211,212,213	Fundamentals of Elementary Math I, II, III	5-5-5
MTH244	Inferential Statistics	4
MTH251	Calculus I (Differential)	5
MTH252	Calculus II (Integral)	5
MTH253	Calculus III	5
MTH254	Vector Calculus	5
MTH256	Differential Equations	5
MTH261	Linear Algebra	5

#### Computer Applications 4

BA131	Introduction to Business Computing	4
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## Distribution Requirements

38-48

(must include one course from any discipline that meets the statewide criteria for cultural literacy – see catalog for details)

## Humanities 3 (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; American Sign Language is considered a world language (see catalog for approved list of humanities electives).

## Social Science (14-16 credits)

Complete four courses from the following list:

ECON201	Principles of Microeconomics	4
ECON202	Principles of Macroeconomics	4
—	Approved social science elective (see catalog for approved list of social science electives)	6-8

## Science (15-20 credits)

Complete four courses from at least two disciplines/prefixes from the following list, three of which must be lab courses.

BI100GB	Introductory Biology (non-lab course)	3
BI100SB	Biology of Human Body Systems (non-lab course)	3
BI101,102,103	Introduction to Biology I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM105R	Introductory Organic Chemistry Recitation	1
CHEM106	Introductory Biochemistry with lab	4
CHEM106R	Introductory Biochemistry Recitation	1
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
G100	Fundamentals of Geology (non-lab course)	3
G101,102,103	Introduction to Geology with lab	4-4-4
GS104	Physical Science with lab	4
GS106	Physical Science: Earth Science with lab	4
GS107	Physical Science: Astronomy with lab	4
GS108	Physical Science: Oceanography with lab	4
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

## Business-specific Requirements (minimum of 20 credits)

BA101	Introduction to Business <sup>4</sup>	4
BA211	Financial Accounting I	4
BA212	Financial Accounting II <sup>5</sup>	4
BA213	Managerial Accounting	4
BA226	Business Law	4

## Electives

0-10

Complete a sufficient number of college-level (numbered 100 and above) courses to meet the total degree requirement of at least 90 credits. Although a maximum of 12 career and technical course credits can be transferred to a four-year institution, a maximum of 6 career and technical credits may be used toward this degree. Note: WR115 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.

Some OUS business schools require two terms of statistics and two terms of calculus prior to being accepted into their programs. It is recommended that students contact the specific OUS business school or program early in the first year of their ASOT – Business program to be advised about additional requirements and procedures for admission to the school or program.

## TOTAL PROGRAM CREDITS

90-108

<sup>1</sup> SP100 and SP115 may not be accepted as an oral communication course if students do not complete this degree before transferring to an Oregon university.

<sup>2</sup> Meets cultural literacy criteria (one course required). See catalog for additional courses that meet the criteria.

<sup>3</sup> Students who have graduated from high school or completed a high school equivalency program in 1997 or after must have the following requirement for admission to a four-year Oregon state college or university: 1) Two years of the same high school-level world language, or 2) two terms of college-level world language with a grade of "C" or better (may be first-year world language, which can be used as elective credits). Note: If students plan to complete a Bachelor of Arts (BA) degree at a four-year school, they must have a proficiency in a world language regardless of when they graduated from high school or equivalency program. Students should inquire with their intended receiving institution for foreign language requirements.

<sup>4</sup> Students who have completed BA101 as a 3 credit course have met this requirement.

<sup>5</sup> Students who completed BA211 at RCC prior to July 1, 2017, will have met this requirement.

For more information contact the Business Technology Department:

Grants Pass	541-956-7066
Medford	541-245-7527
Toll free in Oregon	800-411-6508, Ext. 7066 or Ext. 7527
email	rwcbusiness@rogucecc.edu or rvcbusiness@rogucecc.edu
Web address	www.rogucecc.edu/business
TTY	Oregon Telecom Relay Service, 711

## Business Assistant Certificate of Completion

### About the Program

The Business Assistant four-term certificate program is designed to prepare students for entry-level positions in bookkeeping and small business fields (Accounting Assistant Specialty), administrative fields (Administrative Support Specialty), or supervisory management fields (Assistant Manager Specialty).

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.rogucecc.edu/GainfulEmployment](http://www.rogucecc.edu/GainfulEmployment).

### 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 business programs are:

**Business Ethics:** Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team oriented business environment.

**Communication/Information Literacy:** Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

**Critical Evaluation/Decision Making:** Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

**Interpersonal Skills:** Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### 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 chair before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. 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 adviser and review the roadmap at [www.roguecc.edu/Programs/CareerPathways](http://www.roguecc.edu/Programs/CareerPathways).

## Graduation Requirements

Students completing all courses in this program with a grade of "C" or better will earn a Business Assistant certificate. 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS__	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91. Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8
<b>Total Prerequisite Credits</b>		<b>0-16</b>

## Required Core Courses

Course No.	Course Title	Credits
BA101	Introduction to Business	4
BA109	Ready, Set, Work: Techniques for Landing a Job	2
BA131	Introduction to Business Computing	4
BA211	Financial Accounting I	4
BA218	Personal Finance	3
BT101	Human Relations in Organizations	3
BT113	Business English I <sup>1</sup>	4
BT114	Business English II <sup>1</sup>	4
BT160	Business Math	4
BT178	Customer Service	3
CIS125WW	Word Processing Applications (Word)	3
LIB127	Introduction to Academic Research	1

**Total Required Core Credits** **39**

Students enrolled in the Business Assistant program must select one of the following specialties:

### Accounting Assistant Specialty Track

Course No.	Course Title	Credits
BA177	Payroll and Tax	3
BA212	Financial Accounting II <sup>2</sup>	4
BA213	Managerial Accounting	4
BA228	Computer Accounting Applications	2
		13

### Administrative Support Specialty Track

Course No.	Course Title	Credits
BA214	Business Communications	4
BT105	Business Ethics	3
BT111	Conflict Management	2
—	Approved program electives	2-4
		11-13

### Assistant Manager Specialty Track

Course No.	Course Title	Credits
BA206	Management Fundamentals	3
BA226	Business Law	4
BT102	Introduction to Supervision	3

— Approved program electives **2-4**  
12-14

## TOTAL PROGRAM CREDITS

**50-53**

## Approved Program Electives

(2-4 credits required for Administrative Support Specialty and for the Assistant Manager Specialty)

Course No.	Course Title	Credits
BA199	Special Studies in Business	variable
BA206	Management Fundamentals	3
BA212	Financial Accounting II <sup>2</sup>	4
BA213	Managerial Accounting	4
BA223	Principles of Marketing	3
BA224	Human Resource Management	3
BA226	Business Law	4
BA228	Computer Accounting	2
BA238	The Art of Selling	3
BA243	Social Media Marketing	3
BA249	Retail Management	3
BA285	Advanced Business Applications: Excel	4
BT102	Introduction to Supervision	3
BT105	Business Ethics	3
BT106	Advertising	3
BT111	Conflict Management	2
BT121	Digital Marketing and e-Commerce	4
BT250	Entrepreneurship	3
—	Any CIS125 application class not taken to fulfill core or specialty requirements	1-4
ECON115	Introduction to Economics	3
WR110	Understanding English Grammar	2
—	Any world language	4

<sup>1</sup> Students who have successfully completed the 3-credit versions of BT113 and BT114 will have met the requirements, but will need at least 50-54 applicable business credits to receive this certificate.

<sup>2</sup> Students who completed BA211 at RCC prior to July 1, 2017, will have met this requirement.

For more information contact the Business Technology Department:

Grants Pass ..... 541-956-7066  
Medford ..... 541-245-7527  
Toll free in Oregon ..... 800-411-6508, Ext. 7066 or Ext. 7527  
email ..... [rwcbusiness@roguecc.edu](mailto:rwcbusiness@roguecc.edu) or [rvcbusiness@roguecc.edu](mailto:rvcbusiness@roguecc.edu)  
Web address ..... [www.roguecc.edu/business](http://www.roguecc.edu/business)  
TTY ..... Oregon Telecom Relay Service, 711

## Business Assistant: Business and Information Specialist Career Pathways Certificate

## About the Program

The Business and Information Specialist Career Pathway three-term certificate prepares students for entry-level office positions requiring "soft skills" in dealing with clients, customers, vendors and the public, as well as filing, records management, computer applications, and basic written communication duties. Courses included in this pathway can be applied toward completion of the one-year Business Assistant certificate and the Associate of Applied Science in Business Technology degree.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).



## 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 business programs are:

**Business Ethics:** Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

**Communication/Information Literacy:** Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

**Critical Evaluation/Decision Making:** Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

**Interpersonal Skills:** Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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 chair before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. High school College Now credit will be accepted in accordance with the current articulation agreement.

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 adviser and review the roadmap at [www.roguecc.edu/Programs/CareerPathways](http://www.roguecc.edu/Programs/CareerPathways).

### Customer Service — Career Pathways Certificate (29 credits)

- Cashier <sup>1</sup>
- Customer service representative <sup>1</sup>

### Retail Sales and Service — Career Pathways Certificate (32 credits)

- Counter and rental clerk <sup>1</sup>
- Retail salesperson <sup>1</sup>
- Stock clerk and order filler <sup>1</sup>

### Business and Information Specialist — Career Pathways Certificate (31 credits)

- Call center operator <sup>1</sup>
- File clerk <sup>1</sup>
- General office clerk <sup>1</sup>
- Office machine operator <sup>1</sup>
- Receptionist and information clerk <sup>1</sup>

### Small Business Management — Career Pathways Certificate (40 credits)

- Small business manager <sup>1</sup>
- Retail sales supervisor <sup>1</sup>

### Business Assistant, Certificate of Completion (50-53 credits)

#### Assistant Manager Specialty Track

- Supervisor <sup>1</sup>
- Retail manager <sup>1</sup>
- Assistant manager <sup>1</sup>

#### Administrative Support Specialty Track

- Human resources assistant <sup>1</sup>
- Office and Administrative support worker <sup>1</sup>
- Secretary <sup>1</sup>
- Telemarketer <sup>1</sup>

#### Accounting Assistant Specialty Track

- Accountant/bookkeeper <sup>1</sup>
- Payroll and time keeper clerk <sup>1</sup>

### Business Technology, Associate of Applied Science (AAS) (91-95 credits)

- Department manager <sup>1</sup>
- Office manager <sup>1</sup>

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.roguecc.edu/CareerPathways/](http://www.roguecc.edu/CareerPathways/).

## Completion Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their pathways certificate. 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

**Total Prerequisite Credits** **0-16**

## Required Core Courses

Course No.	Course Title	Credits
BA131	Introduction to Business Computing	4
BA285	Advanced Business Applications: Excel <sup>1</sup>	4
BT101	Human Relations in Organizations	3
BT111	Conflict Management	2
BT113	Business English I <sup>2</sup>	4
BT114	Business English II <sup>2</sup>	4
BT160	Business Math	4
BT178	Customer Service	3
CIS125WW	Word Processing Applications	2

**TOTAL PROGRAM CREDITS** **31**

<sup>1</sup> Students who have successfully completed the 3-credit version of CS125ss Spreadsheet Applications will have met the requirement, but will need at least 31 applicable business credits to receive this certificate.

<sup>2</sup> Students who have successfully completed the 3-credit versions of BT113 and BT114 will have met the requirements, but will need at least 31 applicable business credits to receive this certificate.

For more information contact the Business Technology Department:

Grants Pass ..... 541-956-7066  
 Medford ..... 541-245-7527  
 Toll free in Oregon ..... 800-411-6508, Ext. 7066 or Ext. 7527  
 email ..... [rwcbusiness@roguecc.edu](mailto:rwcbusiness@roguecc.edu) or [rvcbusiness@roguecc.edu](mailto:rvcbusiness@roguecc.edu)  
 Web address ..... [www.roguecc.edu/business](http://www.roguecc.edu/business)  
 TTY ..... Oregon Telecom Relay Service, 711



## Business Assistant: Customer Service Career Pathways Certificate

### About the Program

The Customer Service Career Pathway three-term certificate prepares students for entry-level customer service positions in a variety of fields where the ability to effectively deal with the public is required. Courses included in this pathway can be applied toward completion of the one-year Business Assistant certificate and the Associate of Applied Science in Business Technology degree.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

### 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 business programs are:

**Business Ethics:** Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

**Communication/Information Literacy:** Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

**Critical Evaluation/Decision Making:** Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

**Interpersonal Skills:** Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### 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 chair before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. High school College Now credit will be accepted in accordance with the current articulation agreement.

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 and review the roadmap at [www.roguecc.edu/Programs/CareerPathways](http://www.roguecc.edu/Programs/CareerPathways).

#### Customer Service — Career Pathways Certificate (29 credits)

- Cashier <sup>1</sup>
- Customer service representative <sup>1</sup>

#### Retail Sales and Service — Career Pathways Certificate (32 credits)

- Counter and rental clerk <sup>1</sup>
- Retail salesperson <sup>1</sup>
- Stock clerk and order filler <sup>1</sup>

#### Business and Information Specialist — Career Pathways Certificate (31 credits)

- Call center operator <sup>1</sup>
- File clerk <sup>1</sup>
- General office clerk <sup>1</sup>
- Office machine operator <sup>1</sup>
- Receptionist and information clerk <sup>1</sup>

#### Small Business Management — Career Pathways Certificate (40 credits)

- Small business manager <sup>1</sup>
- Retail sales supervisor <sup>1</sup>

#### Business Assistant, Certificate of Completion (50-53 credits)

##### Assistant Manager Specialty Track

- Supervisor <sup>1</sup>
- Retail manager <sup>1</sup>
- Assistant manager <sup>1</sup>

##### Administrative Support Specialty Track

- Human resources assistant <sup>1</sup>
- Office and Administrative support worker <sup>1</sup>
- Secretary <sup>1</sup>
- Telemarketer <sup>1</sup>

##### Accounting Assistant Specialty Track

- Accountant/bookkeeper <sup>1</sup>
- Payroll and time keeper clerk <sup>1</sup>

#### Business Technology, Associate of Applied Science (AAS) (91-95 credits)

- Department manager <sup>1</sup>
- Office manager <sup>1</sup>

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.roguecc.edu/CareerPathways/](http://www.roguecc.edu/CareerPathways/)

### Completion Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their pathways certificate. 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.

### Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8
<b>Total Prerequisite Credits</b>		<b>0-16</b>

### Required Core Courses

Course No.	Course Title	Credits
BA101	Introduction to Business	4
BA131	Introduction to Business Computing	4
BT101	Human Relations in Organizations	3
BT105	Business Ethics	3
BT113	Business English I <sup>1</sup>	4
BT114	Business English II <sup>1</sup>	4
BT160	Business Math	4
BT178	Customer Service	2
<b>TOTAL PROGRAM CREDITS</b>		<b>29</b>



<sup>1</sup> Students who have successfully completed the 3-credit versions of BT113 and BT114 will have met the requirement, but will need at least 29 applicable business credits to receive this certificate.

For more information contact the Business Technology Department:

Grants Pass ..... 541-956-7066  
 Medford ..... 541-245-7527  
 Toll free in Oregon ..... 800-411-6508, Ext. 7066 or Ext. 7527  
 email ..... [rwcbusiness@rogucecc.edu](mailto:rwcbusiness@rogucecc.edu) or [rvcbusiness@rogucecc.edu](mailto:rvcbusiness@rogucecc.edu)  
 Web address ..... [www.rogucecc.edu/business](http://www.rogucecc.edu/business)  
 TTY ..... Oregon Telecom Relay Service, 711

## Business Assistant: Retail Sales and Service Career Pathways Certificate

### About the Program

The Retail Sales and Service Career Pathway two- to three-term certificate prepares students for entry-level positions in the field of retailing, sales, and merchandising. Courses included in this pathway can be applied toward completion of the one-year Business Assistant certificate and the Associate of Applied Science in Business Technology degree.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.rogucecc.edu/GainfulEmployment](http://www.rogucecc.edu/GainfulEmployment).

### 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 business programs are:

**Business Ethics:** Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

**Communication/Information Literacy:** Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

**Critical Evaluation/Decision Making:** Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

**Interpersonal Skills:** Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### 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 chair before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. High school College Now credit will be accepted in accordance with the current articulation agreement.

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 and review the roadmap at [www.rogucecc.edu/Programs/CareerPathways](http://www.rogucecc.edu/Programs/CareerPathways).

#### Customer Service — Career Pathways Certificate (29 credits)

- Cashier<sup>1</sup>
- Customer service representative<sup>1</sup>

#### Retail Sales and Service — Career Pathways Certificate (32 credits)

- Counter and rental clerk<sup>1</sup>
- Retail salesperson<sup>1</sup>
- Stock clerk and order filler<sup>1</sup>

#### Business and Information Specialist — Career Pathways Certificate (31 credits)

- Call center operator<sup>1</sup>
- File clerk<sup>1</sup>
- General office clerk<sup>1</sup>
- Office machine operator<sup>1</sup>
- Receptionist and information clerk<sup>1</sup>

#### Small Business Management — Career Pathways Certificate (40 credits)

- Small business manager<sup>1</sup>
- Retail sales supervisor<sup>1</sup>

#### Business Assistant, Certificate of Completion (50-53 credits)

##### Assistant Manager Specialty Track

- Supervisor<sup>1</sup>
- Retail manager<sup>1</sup>
- Assistant manager<sup>1</sup>

##### Administrative Support Specialty Track

- Human resources assistant<sup>1</sup>
- Office and Administrative support worker<sup>1</sup>
- Secretary<sup>1</sup>
- Telemarketer<sup>1</sup>

##### Accounting Assistant Specialty Track

- Accountant/bookkeeper<sup>1</sup>
- Payroll and time keeper clerk<sup>1</sup>

#### Business Technology, Associate of Applied Science (AAS) (91-95 credits)

- Department manager<sup>1</sup>
- Office manager<sup>1</sup>

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.rogucecc.edu/CareerPathways/](http://www.rogucecc.edu/CareerPathways/).

### Completion Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their pathways certificate. 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.

### Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH20	Pre-algebra or designated placement test score.	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

#### Total Prerequisite Credits

0-16

### Required Core Courses

Course No.	Course Title	Credits
BA101	Introduction to Business	4
BA131	Introduction to Business Computing	4



BA238	The Art of Selling	3
BA249	Retail Management	3
BT101	Human Relations in Organizations	3
BT113	Business English I <sup>1</sup>	4
BT114	Business English II <sup>1</sup>	4
BT160	Business Math	4
BT178	Customer Service	3

**TOTAL REQUIRED CREDITS 32**

<sup>1</sup> Students who have successfully completed the 3-credit versions of BT113 and BT114 will have met the requirement, but will need at least 32 applicable business credits to receive this certificate.

For more information contact the Business Technology Department:

Grants Pass ..... 541-956-7066  
Medford ..... 541-245-7527  
Toll free in Oregon ..... 800-411-6508, Ext. 7066 or Ext. 7527  
email ..... [rwcbusiness@rogucecc.edu](mailto:rwcbusiness@rogucecc.edu) or [rvcbusiness@rogucecc.edu](mailto:rvcbusiness@rogucecc.edu)  
Web address ..... [www.rogucecc.edu/business](http://www.rogucecc.edu/business)  
TTY ..... Oregon Telecom Relay Service, 711

## Business Assistant: Small Business Management Career Pathways Certificate

### About the Program

The Small Business Management Career Pathway three-term certificate is designed for those individuals who are considering owning and operating their own business. This includes, but not limited to, business majors, students who want to build on skills already learned in the workplace, community members, and students enrolled in other technical programs. Courses included in this pathway can be applied toward completion of the one-year Business Assistant certificate and the Associate of Applied Science in Business Technology degree.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.rogucecc.edu/GainfulEmployment](http://www.rogucecc.edu/GainfulEmployment).

### 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 business programs are:

**Business Ethics:** Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

**Communication/Information Literacy:** Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

**Critical Evaluation/Decision Making:** Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

**Interpersonal Skills:** Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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 chair before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. High school College Now credit will be accepted in accordance with the current articulation agreement.

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 and review the roadmap at [www.rogucecc.edu/Programs/CareerPathways](http://www.rogucecc.edu/Programs/CareerPathways).

#### Customer Service — Career Pathways Certificate (29 credits)

- Cashier <sup>1</sup>
- Customer service representative <sup>1</sup>

#### Retail Sales and Service — Career Pathways Certificate (32 credits)

- Counter and rental clerk <sup>1</sup>
- Retail salesperson <sup>1</sup>
- Stock clerk and order filler <sup>1</sup>

#### Business and Information Specialist — Career Pathways Certificate (31 credits)

- Call center operator <sup>1</sup>
- File clerk <sup>1</sup>
- General office clerk <sup>1</sup>
- Office machine operator <sup>1</sup>
- Receptionist and information clerk <sup>1</sup>

#### Small Business Management — Career Pathways Certificate (40 credits)

- Small business manager <sup>1</sup>
- Retail sales supervisor <sup>1</sup>

#### Business Assistant, Certificate of Completion (50-53 credits)

##### Assistant Manager Specialty Track

- Supervisor <sup>1</sup>
- Retail manager <sup>1</sup>
- Assistant manager <sup>1</sup>

##### Administrative Support Specialty Track

- Human resources assistant <sup>1</sup>
- Office and Administrative support worker <sup>1</sup>
- Secretary <sup>1</sup>
- Telemarketer <sup>1</sup>

##### Accounting Assistant Specialty Track

- Accountant/bookkeeper <sup>1</sup>
- Payroll and time keeper clerk <sup>1</sup>

#### Business Technology, Associate of Applied Science (AAS) (91-95 credits)

- Department manager <sup>1</sup>
- Office manager <sup>1</sup>

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.rogucecc.edu/CareerPathways/](http://www.rogucecc.edu/CareerPathways/)

## Completion Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their pathways certificate. 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.



## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8
<b>Total Prerequisite Credits</b>		<b>0-16</b>

## Required Core Courses

Course No.	Course Title	Credits
BA101	Introduction to Business	4
BA131	Introduction to Business Computing	4
BA211	Financial Accounting I	4
BA223	Principles of Marketing	3
BA226	Business Law	4
BT101	Human Relations in Organizations	3
BT102	Introduction to Supervision or BA206 Management Fundamentals	3
BT113	Business English I 1	4
BT114	Business English II 1	4
BT160	Business Math	4
BT250	Entrepreneurship	3

**TOTAL PROGRAM CREDITS 40**

<sup>1</sup> Students who have successfully completed the 3-credit versions of BT113 and BT114 will have met the requirement, but will need at least 40 applicable business credits to receive this certificate.

For more information contact the Business Technology Department:

Grants Pass .....	541-956-7066
Medford .....	541-245-7527
Toll free in Oregon .....	800-411-6508, Ext. 7066 or Ext. 7527
email .....	rwcbusiness@rogucecc.edu or rvcbusiness@rogucecc.edu
Web address .....	www.rogucecc.edu/business
TTY .....	Oregon Telecom Relay Service, 711

## Business Management — Entrepreneurship/Small Business Management Transfer to Oregon Tech Associate of Science Degree

## About the Program

The Associate of Science (AS) degree is based on a signed articulation agreement with Oregon Tech. Students transferring to its baccalaureate degree program in Management – Entrepreneurship/Small Business Management are guaranteed junior standing in the program. Students must work closely with advisors in their areas of interest to ensure electives are appropriate. The curriculum allows for 45 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.

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. Courses in this program may also be applied to Oregon Tech's Bachelor of Science in Healthcare Management, Administration Option. See a Business Advisor for more information.

## 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 business programs are:

**Business Ethics:** Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

**Communication/Information Literacy:** Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

**Critical Evaluation/Decision Making:** Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

**Interpersonal Skills:** Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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 four 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.

## Prerequisites

Course No.	Course Title	Credits
CS__	Approved 3-4 credit computer science class, CS120 or above, or documented computer proficiency <sup>1</sup>	0-4
MTH95	Intermediate Algebra or designated placement test score	0-4
RD90	College Reading or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
<b>Total Prerequisite Credits</b>		<b>0-15</b>

## General Education Requirements

Course No.	Course Title	Credits
CS/CIS__	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
MTH95	Intermediate Algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score.	0-3
<b>Total Prerequisite Credits</b>		<b>0-11</b>

## General Education Requirements

Course No.	Course Title	Credits
BA214	Business Communications or SP115 Introduction to Intercultural Communication or SP218 Interpersonal Communication	4
LIB127	Introduction to Academic Research	1
MTH111	College Algebra	4
MTH243	Probability and Statistics with lab	4
MTH244	Inferential Statistics	4
PSY202	General Psychology II	4
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I <sup>2</sup>	4
WR122	English Composition II <sup>2</sup>	4



WR227	Technical Writing	4
	Approved humanities electives <sup>3</sup>	6-8
	Approved lab science elective <sup>4</sup>	4-5

**Total General Education Credits 47-50**

## Core Requirements

Course No.	Course Title	Credits
BA101	Introduction to Business	4
BA131	Introduction to Business Computing	4
BA177	Payroll and Tax Procedures	3
BA206	Management Fundamentals	3
BA211	Financial Accounting I	4
BA212	Financial Accounting II <sup>5</sup>	4
BA213	Managerial Accounting	4
BA223	Principles of Marketing	3
BA224	Human Resource Management	3
BA226	Business Law	4
BA285	Advanced Business Applications: Excel <sup>6</sup>	4
CIS125DB	Data Base Management Systems	3
ECON201	Microeconomics	4
ECON202	Macroeconomics	4

**Total Core Credits 51**

**TOTAL PROGRAM CREDITS 98-101**

<sup>1</sup> Required for graduation.

<sup>2</sup> The 3-credit version of any speech or humanities course taken prior to 2009 will meet the same degree requirements as the current 4-credit version. Students must still complete all required courses in this degree and at least 98 transfer-level, applicable credits to receive this degree.

## 3 Approved Humanities Electives

(Complete 6-8 credits from the following list. A maximum of 3 performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4

**80**

REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

## 4 Approved Lab Science Electives

(Complete one course from the following list.)

Course No.	Course Title	Credits
BI101,102,103	Introduction to Biology I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GS104	Physical Science with lab	4
GS106	Physical Science: Earth Science with lab	4
GS107	Physical Science: Astronomy with lab	4
GS108	Physical Science: Oceanography with lab	4
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

<sup>5</sup> Students who completed BA211 at RCC prior to July 1, 2017, will have met this requirement.

<sup>6</sup> Students who have previously taken CS125SS Spreadsheet Applications, 3 cr., will have met the requirement, but still need at least 98 applicable credits to receive this degree.

For more information contact the Business Technology Department:

Grants Pass	541-956-7066
Medford	541-245-7527
Toll free in Oregon	800-411-6508, Ext. 7066 or 7527
email	rwcbusiness@rogucecc.edu or rvcbusiness@rogucecc.edu
Web address	www.rogucecc.edu/business
TTY	Oregon Telecom Relay Service, 711

## Business Technology Associate of Applied Science Degree

### About the Program

The Business Technology 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 Technology AAS degree. There are also two program options should students want to pursue a specialized focus area.

For students who desire employment as bookkeepers, accounting assistants and billing clerks, the Accounting Option provides advanced study in practical accounting using both manual and computerized accounting systems.

Students who plan to supervise other workers, start their own business enterprises, or work in the sales, advertising or e-commerce sectors, will find the Management and 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 business programs are:

**Business Ethics:** Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

**Communication/Information Literacy:** Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

**Critical Evaluation/Decision Making:** Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.



Interpersonal Skills: Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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 and review the roadmap at [www.roguecc.edu/Programs/CareerPathways](http://www.roguecc.edu/Programs/CareerPathways).

## 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.

## Prerequisites

Course No.	Course Title	Credit
CS/CIS__	Approved 3-4 credit Computer Science or Computer Information Science class, CIS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8
<b>Total Prerequisite Credits</b>		<b>0-16</b>

## Required Courses for Base Program and Program Options

Course No.	Course Title	Credit
BA101	Introduction to Business	4
BA109	Ready, Set, Work: Techniques for Landing a Job	2
BA131	Introduction to Business Computing	4
BA211	Financial Accounting I	4
BA212	Financial Accounting II <sup>1</sup>	4
BA214	Business Communications	4
BA218	Personal Finance	3
BA223	Principles of Marketing	3
BA226	Business Law	4
BA243	Social Media Marketing	3
BA280	Cooperative Work Experience/Business or BT265 Writing a Business Plan (Capstone)	3
BA285	Advanced Business Applications: Excel	4
BT101	Human Relations in Organizations	3
BT105	Business Ethics	3
BT111	Conflict Management	2
BT113	Business English I	4
BT114	Business English II	4
BT160	Business Math	4
BT178	Customer Service	3
CIS125WW	Word Processing Applications (Word)	3
ECON115	Introduction to Economics	3
HE112	Emergency First Aid or HE250 Personal Health or	

HE252 First Aid/CPR or	
HE261 CPR/Basic Life Support Provider or	
HPE295 Health and Fitness for Life	1-3
LIB127	1
SP111	
Introduction to Academic Research	
Fundamentals of Public Speaking or	
SP100 Basic Communication or	
SP115 Intercultural Communication or	
SP218 Interpersonal Communication or	
COMM225 Small Group Communication and Problem-solving	3-4
Approved program electives <sup>2</sup>	15-16

**TOTAL BUSINESS TECHNOLOGY PROGRAM CREDITS 91-95**

## Required Courses – Accounting Option

Course No.	Course Title	Credit
BA177	Payroll and Tax Procedures	3
BA213	Managerial Accounting	4
BA228	Computer Accounting Applications	2
	Approved program electives	5-6
		14-15

**TOTAL BUSINESS TECHNOLOGY ACCOUNTING OPTION CREDITS 90-94**

## Required Courses – Management & Marketing Option

Course No.	Course Title	Credit
BA206	Management Fundamentals	3
BT102	Introduction to Supervision	3
BT106	Advertising	3
BT121	Digital Marketing and e-Commerce	4
	Approved program electives	2-3
		15-16

**TOTAL BUSINESS TECHNOLOGY MANAGEMENT & MARKETING OPTION CREDITS 91-95**

## Approved Program Electives

(Select 2-16 credits from courses not otherwise required within the base program or option area.)

Course No.	Course Title	Credit
BA177	Payroll and Tax Procedures	3
BA199	Special Studies in Business	variable
BA206	Management Fundamentals	3
BA213	Managerial Accounting	4
BA224	Human Resource Management	3
BA228	Computer Accounting Applications	2
BA238	The Art of Selling	3
BA249	Retail Management	3
BA280	Cooperative Work Experience/Business	1-9
BT102	Introduction to Supervision	3
BT106	Advertising	3
BT121	Digital Marketing and e-Commerce	
BT250	Entrepreneurship	3
—	Any CIS125 applications course (except those taken to fulfill core requirements)	1-6
ECON201	Introduction to Microeconomics	4
ECON202	Introduction to Macroeconomics	4
WR110	Understanding English Grammar	2
WR227	Technical Writing	4
—	Any world language	4-12

1 Students who completed BA211 at RCC prior to July 1, 2017, will have met this requirement

2 Not required for students completing the Accounting or Management and Marketing options. They will complete 2-6 elective credits and the option area coursework listed.



For more information contact the Business Department:

Grants Pass ..... 541-956-7066  
 Medford ..... 541-245-7527  
 Toll free in Oregon ..... 800-411-6508, Ext. 7066 or Ext. 7527  
 email ..... [rwcbusiness@rogucecc.edu](mailto:rwcbusiness@rogucecc.edu) or [rvcbusiness@rogucecc.edu](mailto:rvcbusiness@rogucecc.edu)  
 Web address ..... [www.rogucecc.edu/business](http://www.rogucecc.edu/business)  
 TTY ..... Oregon Telecom Relay Service, 711

## Business Transfer to Southern Oregon University Associate of Science Degree

### 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 fully articulated with SOU's Business program and allows students to transfer directly as juniors and to be admitted into the program with no loss of credits to pursue a bachelor's degree. The program offers an excellent balance of business and general education courses that support advanced study in the field of business.

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 transferring to SOU will be required to complete BA100 at SOU during the first quarter.

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 business programs are:

**Business Ethics:** Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

**Communication/Information Literacy:** Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

**Critical Evaluation/Decision Making:** Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

**Interpersonal Skills:** Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### 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.

### Prerequisites

Course No.	Course Title	Credits
MTH95	Intermediate Algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score.	0-3

**Total Prerequisite Credits** **0-7**

**General Education Requirements** **16**

**Course No.** **Course Title** **Credits**

**Writing Skills and Oral Communication** **12**

WR121	English Composition I	4
WR122	English Composition II or WR227 Technical Writing	4
SP111	Fundamentals of Public Speaking or COMM225 Small Group Communication or SP218 Interpersonal Communication	4

**Mathematics** **4**

MTH243	Probability and Statistics with lab	4
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**Distribution/Explorations Requirements** **31-38**

**Humanities <sup>1</sup>** **9-12**

(Complete at least three courses from the following list, 9-12 credits.)

Course No.	Course Title	Credits
ART131	Introduction to Drawing	4
ART204,205,206	History of Art I, II, III	4-4-4
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SP115	Introduction to Intercultural Communication	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141	Fundamentals of Acting	4
WR241,242,243	Imaginative Writing I, II, III	4-4-4

**Social Science** **11**

Course No.	Course Title	Credits
BA218	Personal Finance	3
ECON201	Principles of Microeconomics	4
ECON202	Principles of Macroeconomics	4



## Science

11-15

(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.)

Course No.	Course Title	Credits
BI100GB	Introductory Biology (non-lab course)	3
BI100SB	Biology of Human Body Systems (non-lab course)	3
BI101,102,103	Introduction to Biology I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM105R	Introductory Organic Chemistry Recitation	1
CHEM106	Introductory Biochemistry with lab	4
CHEM106R	Introductory Biochemistry Recitation	1
CIS195	Web Authoring I (non-lab course)	4
ENV111	Introduction to Environmental Science (non-lab)	3
G100	Fundamentals of Geology (non-lab course)	3
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GEOG100	Introduction to Physical Geography (non-lab course)	3
GS104,106,107,108	Physical Science with lab	4-4-4-4
GS170 *	Regional Field Studies with lab	4
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

## Business-Specific Requirements 33

Course No.	Course Title	Credits
BA101	Introduction to Business	4
BA131	Introduction to Business Computing	4
BA211	Financial Accounting I	4
BA212	Financial Accounting II 2	4
BA213	Managerial Accounting	4
BA226	Business Law	4
BA282	Applied Business Statistics	4
BA285	Advanced Business Applications: Excel	4
LIB127	Introduction to Academic Research	1

## Electives 3-10

Complete a sufficient number of transfer-level (numbered 100 and above) courses to meet the total degree requirement of at least 90 credits. A maximum of 12 career and technical course credits may be used toward this degree.

Note: WR115 Introduction to Expository Writing may be used as elective credit if taken summer term 2000 or later and completed with a letter grade of "C" or better.

## TOTAL PROGRAM CREDITS 90

<sup>1</sup> Students who have graduated from high school or completed a high school equivalency program in 1997 or after must have the following requirement for admission to a four-year Oregon college or university: 1) Two years of the same high school-level world language, or 2) two terms of college-level world language with a grade of "C" or better (may be first-year world language, which can be used as elective credits). Note: If students plan to complete a Bachelor of Arts (BA) degree at a four-year school, they must be proficient in a world language regardless of when they graduated from high school or equivalency program.

<sup>2</sup> Students who completed BA211 at RCC prior to July 1, 2017, will have met this requirement.

For more information contact the Business Technology Department:

Grants Pass	541-956-7066
Medford	541-245-7527
Toll free in Oregon	800-411-6508, Ext. 7066 or Ext. 7527
Email	rwcbusiness@rogucecc.edu or rvcbusiness@rogucecc.edu
Web address	www.rogucecc.edu/business
TTY	Oregon Telecom Relay Service, 711

## Chemistry Interest Associate of General Studies Degree

A total of 90 credits are required to complete the Associate of General Studies (AGS) degree. 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 graduation guide 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 chemistry major vary at each university.

Course No.	Course Title	Credits	AGS Category
CHEM105	Introductory Organic Chemistry	4	Science
CHEM105R	Introductory Organic Chemistry Recitation	1	Science
CHEM106	Introductory Biochemistry	4	Science
CHEM106R	Introductory Biochemistry Recitation	1	Science
CHEM221	General Chemistry I	5	Science
CHEM222	General Chemistry II	5	Science
CHEM223	General Chemistry III	5	Science
MTH251	Calculus I	5	Math
MTH252	Calculus II	5	Math
MTH253	Calculus III	5	Math
MTH254	Vector Calculus w/lab	5	Math
MTH256	Differential Equations w/lab	5	Math
MTH261	Linear Algebra w/lab	5	Math
PH211	General Physics I (Calculus Based)	5	Science
PH212	General Physics II (Calculus Based)	5	Science
PH213	General Physics III (Calculus Based)	5	Science
WR227	Technical Writing	4	Writing

Note: Four courses required in the Science/Math category. Additional courses would count as electives.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	www.eou.edu
Oregon Tech	www.oit.edu
Oregon State University	www.oregonstate.edu
Portland State University	www.pdx.edu
Southern Oregon University	www.sou.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

## Computer and Embedded Systems Engineering Technology Transfer to Oregon Tech Associate of Science Degree

### About the Program

The Associate of Science (AS) degree is based on a signed articulation agreement with Oregon Institute of Technology. The program is designed for students transferring to its baccalaureate degree program in Computer Engineering Technology and/or Embedded Systems Engineering Technology and graduates are guaranteed junior standing in the program upon transferring. Students must work closely with advisors in their areas of interest to ensure electives are appropriate. The curriculum allows for 55 core credits within the major area. By completing all appropriate credits (including electives), students will complete required lower division coursework for transfer to Oregon Tech.



Students must work closely with their advisors to ensure transferability. 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 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 and Embedded Systems Engineering Technology Transfer to Oregon Tech degree is:

Students will be prepared to transfer into Oregon Tech's Computer and Embedded Systems Engineering program.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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 four 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" or better in CS161U and CS162U for transfer.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
EET129	Introduction to Embedded Systems	3
MTH95	Intermediate Algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
<b>Total Prerequisite Credits</b>		<b>3-14</b>

## General Education Requirements

Course No.	Course Title	Credits
LIB127	Introduction to Academic Research	1
MTH111	College Algebra	4
MTH112	Elementary Functions	4
MTH251	Calculus I (Differential)	5
MTH252	Calculus II (Integral)	5
MTH254	Vector Calculus	5
PSY202	General Psychology II	4
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I <sup>1</sup>	4
WR122	English Composition II <sup>1</sup>	4
WR227	Technical Writing	4
	Approved humanities electives <sup>2</sup>	2
<b>Total General Education Credits</b>		<b>53</b>

## Core Requirements

Course No.	Course Title	Credits
CIS140	Introduction to Operating Systems	4
CS161U	Computer Science I (C++)	4
CS162U	Computer Science II (C++)	4
CS234U	Object Oriented Programming in C++	4

EET125	Electronics Fundamentals I (DC)	6
EET126	Electronics Fundamentals II (AC)	6
EET130	Digital Fundamentals I	6
EET131	Digital Fundamentals II	6
EET132	Digital Fundamentals III	5
EET240	Microcontrollers I	5
EET241	Microcontrollers II	5

<b>Total Core Credits</b>	<b>55</b>
<b>TOTAL PROGRAM CREDITS</b>	<b>108</b>

<sup>1</sup> The 3-credit version of any speech or humanities course taken prior to 2009 will meet the same degree requirements as the current 4-credit version. Students must still complete all required courses in this degree and at least 90 applicable credits to receive an associate degree.

## <sup>2</sup> Approved Humanities Electives

(Complete 9 credits from the following list. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

For more information contact the Electronics Technology Department:

Grants Pass or Medford	541-245-7809
Toll free in Oregon	800-411-6508, Ext. 7809
email	electronics@rogucecc.edu
Web Address	www.rogucecc.edu/electronics
TTY	Oregon Telecom Relay Service, 711



# Computer Science

## Associate of Science

### Oregon Transfer Degree

## 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. 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 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 Associate of Science Oregon Transfer - Computer Science is:

Students will be prepared to transfer into any computer science program within the Oregon University System.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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.

## General Education Requirements

Course No.	Course Title	Credits
<b>Writing Skills (two courses required)</b>		<b>8</b>
Students who took writing classes of 3 credits each must have WR121, WR122 or WR227. Students taking classes of 4 credits each must take WR121 and either WR122 or WR227.		
WR121	English Composition I	4
WR122	English Composition II or WR227 Technical Writing	4
<b>Oral Communication (one course required)</b>		<b>3-4</b>
SP100	Basic Communication <sup>1</sup>	3
SP111	Fundamentals of Public Speaking	4
SP115	Intercultural Communication <sup>2</sup>	4
SP218	Interpersonal Communication	4
<b>Mathematics</b>		<b>10</b>
MTH251	Calculus I (Differential)	5
MTH252	Calculus II (Integral) <sup>5</sup>	
<b>Health/Wellness/Fitness</b>		<b>3</b>
HE112	Emergency First Aid	1
HE208	HIV and Infectious Diseases	1
HE250	Personal Health	3
HE252	First Aid/CPR	3

HE253	Wilderness First Aid/CPR	3
HE261	CPR/Basic Life Support Provider	1
HPE295	Health and Fitness for Life	3
PE185	Activity Courses	1-3
PE291	Lifeguard Training	2

**Total General Education Credits 24-25**

## Distribution Requirements

**Humanities <sup>3</sup> 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 (see catalog for approved list of humanities electives).

**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/lcs](http://www.roguecc.edu/lcs) and a computer science advisor for university-specific transfer requirements.

**Science 4 12-15**

Complete three biological and/or physical science laboratory courses.

**Total Distribution Credits 33-43**

## Computer Science-specific Requirements

Course No.	Course Title	Credits
CS160	Introduction to Computer Science	4
CS161U	Computer Science I (C++) or CS161J Computer Science I (Java) <sup>5</sup>	4
CS162U	Computer Science II (C++) or CS162J Computer Science II (Java) <sup>5</sup>	4
CS260	Data Structures I	4

**Total Computer Science-specific Credits 16**

## 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: WR115 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.

**Total Elective Credits 6-17**

**TOTAL PROGRAM CREDITS 90**

<sup>1</sup> SP100 may not be accepted if students do not complete this degree before transferring to an Oregon university.

<sup>2</sup> Meets cultural literacy criteria (one course required). See catalog for additional courses that meet the criteria.

<sup>3</sup> Students who have graduated from high school or completed a high school equivalency program in 1997 or after must have the following requirement for admission to a four-year Oregon state college or university: 1) two years of the same high school-level world language, or 2) two terms of college-level world language with a grade of "C" or better (may be first-year world language, which can be used as elective credits). Note: If students plan to complete a Bachelor of Arts (BA) degree at a four-year school, they must have a proficiency in a world language regardless of when they graduated from high school or equivalency program. Students should inquire with their intended receiving institution for foreign language requirements.

<sup>4</sup> 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.

<sup>5</sup> The language taken will depend on the school being transferred to.



For more information contact the Computer Science Department:

Grants Pass ..... 541-956-7213  
 Medford ..... 541-245-7527  
 Toll free in Oregon ..... 800-411-6508, Ext. 7213 or Ext. 7527  
 email ..... cs@rogucecc.edu  
 Web address ..... www.rogucecc.edu/computerscience  
 TTY ..... Oregon Telecom Relay Service, 711

## Computer Science Transfer to Southern Oregon University Associate of Science Degree

### 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 31-33 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 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 Science Transfer to Southern Oregon University degree is:

Students will be prepared to transfer into Southern Oregon University's Computer Science program.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### 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.

### Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH95	Intermediate Algebra or designated placement test	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3

**Total Prerequisite Credits 0-11**

### General Education Requirements

Course No.	Course Title	Credits
COMM225	Small Group Communication and Problem-solving or	

	SP100 Basic Communication or	
	SP111 Fundamentals of Public Speaking or	
	SP218 Interpersonal Communication	3-4
LIB127	Introduction to Academic Research	1
MTH111	College Algebra	4
MTH112	Elementary Functions	4
MTH251	Calculus I	5
MTH252	Calculus II	5
WR121	English Composition I	4
WR122	English Composition II or	
	WR227 Technical Writing	4
—	Approved humanities electives <sup>1</sup>	9-12
—	Approved science electives <sup>2</sup>	11-15
—	Approved social science electives <sup>3</sup>	9-12

**Total General Education Requirements 59-70**

### Core Requirements

Course No.	Course Title	Credits
CIS125DB	Data Base Management Systems	3
CIS140	Introduction to Operating Systems	4
CS133/CS161U	Any CS133/CS161U programming language course	4
CS161J	Computer Science I	4
CS162J	Computer Science II	4
CS275	Data Base Development I	4
—	Approved computer science electives <sup>4</sup>	8-10

**Total Core Credits 31-33**

**TOTAL PROGRAM CREDITS 90-103**

### <sup>1</sup> Approved Humanities Electives

(complete at least three courses from the following list, 9-12 credits)

Course No.	Course Title	Credits
ART131	Introduction to Drawing	3
ART204,205,206	History of Art I, II, III	4-4-4
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
IS110	Introduction to International Studies I	4
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SP115	Introduction to Intercultural Communication	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141	Fundamentals of Acting	4
WR241,242,243	Imaginative Writing I, II, III	4-4-4



## 2 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 asterisk.)

Course No.	Course Title	Credits
BI100GB	Introductory Biology (non-lab course)	3
BI100SB	Biology of Human Body Systems (non-lab course)	3
BI101,102,103	Introduction to Biology I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM105R	Introductory Organic Chemistry Recitation	1
CHEM106	Introductory Biochemistry with lab	4
CHEM106R	Introductory Biochemistry Recitation	1
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CIS195	Web Authoring I (HTML/CSS) (non-lab course)	4
ENV111	Introduction to Environmental Science (non-lab course)	3
G100	Fundamentals of Geology (non-lab course)	3
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GEOG100	Introduction to Physical Geography (non-lab course)	3
GS104,106,107,108	Physical Science with lab	4-4-4-4
GS170 *	Regional Field Studies with lab	4
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

## 3 Approved Social Science Electives

(complete at least three courses from the following list, 9-12 credits)

Course No.	Course Title	Credits
ANTH110,150	Introduction to Cultural Anthropology/Archaeology	4-4
BA101	Introduction to Business	4
BA218	Personal Finance	3
CJ101/SOC244	Introduction to Criminology	4
CJ120	Introduction to the Judicial Process	4
CJ243/SOC243	Drugs, Crime and Addiction	4
COMM237	Communication and Gender	4
ECON115	Introduction to Economics	3
ECON201,202	Principles of Microeconomics/Macroeconomics	4-4
GEOG110	Introduction to Cultural and Human Geography	3
GEOG120	World Regional Geography	3
HE250,HPE295	Personal Health/Health and Fitness for Life	3-3
HST104	World Civilizations: Prehistory - Middle Ages	4
HST105	World Civilizations: Byzantium - Present	4
HST201	U.S. History through Reconstruction	4
HST202	U.S. History: Post-Reconstruction - Present	4
IS111	Introduction to International Studies II	3
PS201,202,203	American Government I, II, III	3-3-3
PSY101	Psychology of Human Relations	3
PSY119	Psychology of Personal Growth	4
PSY201,202	General Psychology I, II	4-4
PSY215	Life Span Human Development	4
PSY219	Introduction to Abnormal Psychology	4
PSY231	Human Sexuality	3
SOC204,205	Introduction to Sociology: American Society	4-4
SOC211	Social Deviance and Social Control	3
SOC213	Race and Ethnicity in the U.S.	4
SOC218	Sociology of Gender	4
SOC225	Social Problems and Solutions	4
SOC228	Environment and Society	4

SOC230	Introduction to Gerontology	4
SOC235/HST259	The Chicano/Latino Historical Experience	4

## 4 Approved Computer Science Electives

(minimum 8-10 credits required)

Course No.	Course Title	Credits
CIS179	Introduction to Networks	4
CIS240L	Advanced Operating Systems: Linux	4
CIS279	Network Operating Systems	4
CS133	Any CS133 programming language not taken as core requirement	4
CS160	Introduction to Computer Science	4
CS161U	Computer Science I (C++) (if not taken as part of core)	4
CS162U	Computer Science II (C++)	4
CS234U	Object Oriented Programming with C++	4
CS260	Data Structures	4
EET240	Microcontrollers I	5
MTH253	Calculus III	5
MTH254	Calculus IV	5

Note: Students who have graduated from high school or completed a high school equivalency program in 1997 or after must have the following requirement for admission to a four-year Oregon university: 1) Two years of the same high school-level foreign language, or 2) two terms of college-level foreign language with a grade of "C" or better (may be first-year foreign language, which can be used as elective credits on the Associate of Arts Oregon Transfer degree). If students plan to complete a Bachelor of Arts (BA) degree at a four-year school, they must have a proficiency in a foreign language regardless of when they graduated from high school or equivalency program.

For more information contact the Computer Science Department:

Grants Pass	541- 956-7213
Medford	541-245-7527
Toll free in Oregon	800-411-6508, Ext. 7213 or Ext. 7527
email	cs@rogucecc.edu
Web address	www.rogucecc.edu/computerscience
TTY	541-956-7338 or 541-245-7587

## Computer Support Technician Associate of Applied Science Degree

### 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 computer science programs are:

Makes recommendations regarding 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.

Troubleshoots and solve a variety of equipment-related issues in a workplace environment.

Uses standard business productivity software to support electronic projects.

Explains basic troubleshooting processes and procedures from initial diagnosis to final documentation and reporting.

Develops technical documentation to support organizational needs.

Explains and demonstrate how to interact and communicate effectively with people of different technical backgrounds and professional positions.

Works effectively as an individual under guidance and as a member of a team.



## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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 and review the roadmap at [www.roguecc.edu/Programs/CareerPathways](http://www.roguecc.edu/Programs/CareerPathways).

## 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CIS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
<b>Total Prerequisite Credits</b>		<b>0-11</b>

## General Education Requirements

Course No.	Course Title	Credits
COMM225	Small Group Communication and Problem Solving or SP111 Fundamentals of Public Speaking or SP218 Interpersonal Communication (choose two)	8
HE250	Personal Health or HE112 Emergency First Aid or HE252 First Aid/CPR or HE261 CPR/Basic Life Support Provider or HPE295 Health and Fitness for Life	1-3
LIB127	Introduction to Academic Research	1
MTH96	Applied Algebra II or MTH65 Fundamentals of Algebra II or higher level math	4
PSY101	Psychology of Human Relations	3
WR121	English Composition I	4
WR227	Technical Writing or WR122 English Composition II	4
<b>Total General Education Credits</b>		<b>25-27</b>

## Required Core Courses

Course No.	Course Title	Credits
BA101	Introduction to Business	4
BT178	Customer Service	3
CIS125DB	Data Base Management Systems	3
CIS125PPT	Effective Presentations	2
CIS125SS	Spreadsheet Applications	4
CIS125V	Visio	1
CIS125WW	Word Processing Applications	3

CS133/CS161U	Any CS133/CS161U programming language course	4
CIS140	Introduction to Operating Systems	4
CIS179	Introduction to Networks	4
CIS225	Computer End-user Support I	4
CIS227	PC Hardware Fundamentals and Repair	5
CIS240	Advanced Operating Systems	4
CIS279	Network Operating Systems I (Infrastructure)	4
CIS280	Cooperative Work Experience/Computer Science	3
CIS284	Network Security Fundamentals	4

<b>Approved program electives</b>	<b>9-12</b>
<b>Total Required Core Credits</b>	<b>65-68</b>
<b>TOTAL PROGRAM CREDITS</b>	<b>90-95</b>

## Approved Program Electives (9-12 credits required)

Course No.	Course Title	Credits
BA109	Ready, Set, Work: Techniques for Landing a Job	2
CS133C#	Programming Fundamentals Using C#	4
CIS160	Introduction to Computer Science	4
CIS161J	Computer Science I (Java)	4
CIS162J	Computer Science II (Java)	4
CS275	Database Development I	4
CIS280	Cooperative Work Experience	variable
EET	Any electronics course(s)	variable
HCI255	Introduction to Health Care Informatics	3
MTH	Any math course(s) MTH105 or higher	variable
SOC237	Communication, Relationships and Technology	4

For more information contact the Computer Science Department:

Grants Pass	541-956-7213
Medford	541-245-7527
Toll free in Oregon	800-411-6508, Ext. 7213 or Ext. 7527
email	cs@roguecc.edu
Web address	www.roguecc.edu/computerscience
TTY	Oregon Telecom Relay Service, 711

## Computer Support Technician: Computer Software Specialist Career Pathways 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 Associate of Applied Science degree or Computer Support: Healthcare Informatics Associate of Applied Science degree option.

### 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:

Uses 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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 Pathways Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor and review the roadmap at [www.roguecc.edu/Programs/CareerPathways](http://www.roguecc.edu/Programs/CareerPathways).

### Computer Software Specialist — Career Pathways Certificate (16 credits)

- Entry-level computer specialist <sup>1</sup>

### Computer Support Technician — Associate of Applied Science (AAS) (90-95 credits)

- Advanced-level computer specialist <sup>1</sup>
- Database manager <sup>1</sup>
- Computer programmer <sup>1</sup>

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.roguecc.edu/CareerPathways/](http://www.roguecc.edu/CareerPathways/)

## 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.

## Prerequisites

Course No.	Course Title	Credit
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CIS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH65	Fundamentals of Algebra II or BT160 Business Math or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8
<b>Total Prerequisite Credits</b>		<b>0-16</b>

## Required Courses

Course No.	Course Title	Credit
CIS125DB	Database Management Systems (Access)	3
CIS125PPT	Effective Presentations (PowerPoint)	2
CIS125SS	Spreadsheet Applications (Excel)	4
CIS125WW	Word Processing Applications (Word)	3
CIS140	Introduction to Operating Systems	4

**TOTAL PROGRAM CREDITS** **16**

For more information contact the Computer Science Department:

Grants Pass or Medford. . . . . 541-956-7213  
Medford . . . . . 541-245-7527  
Toll free in Oregon . . . . . 800-411-6508, Ext. 7213 or Ext. 7527  
email. . . . . [cs@roguecc.edu](mailto:cs@roguecc.edu)  
Web address . . . . . [www.roguecc.edu/computerscience](http://www.roguecc.edu/computerscience)  
TTY . . . . . Oregon Telecom Relay Service, 711

## Criminal Justice Associate of Applied Science Degree

## About the Program

The Criminal Justice Associate of Applied Science degree is designed for students pursuing an educational program that will prepare them for careers in the fields of law enforcement and adult and juvenile corrections. This degree enables students to enter into criminal justice careers. Many of the courses taken toward this degree can be applied to a four-year degree in the criminal justice/criminology 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 [www.sou.edu/degreecompletion](http://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 criminal justice programs are:

Integrate and apply acquired knowledge and skills related to justice administration systems, crime control policy, theory, law, and technology to effectively manage and control problems related to crime and public safety in jurisdictions of employment.

Work in teams and in collaborative environments with stakeholders in communities of interest to develop solutions to problems of crime and public safety within those communities of interest.

Apply a strong ethic of public service, personal, and professional growth, in their respective roles to include a commitment to apply culturally sensitive strategies of communication and problem-solving in the 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. A Criminal Justice program advisor must provide advising and approval of a student's program prior to registration. In addition, students may also be required to enroll in classes that would increase their employability and success.

Prospective students should be aware of entry requirements of criminal justice agencies prior to considering criminal justice fields as career choices. Conditions such as impaired hearing and/or eyesight, impaired physical agility, or a criminal history may preclude employment in some agencies. Students should discuss their individual circumstances with advisors and determine if any issues might preclude employment in the field.

## Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Criminal Justice Department'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 Criminal Justice Department chair to determine placement.

## Reserve Officer Law Enforcement Academy

The Criminal Justice Associate of Applied Science Degree offers a limited number of students the option of enrolling in the Reserve Officer Law Enforcement Academy (ROLEA) and applying credits to degree requirements. The ROLEA option is available to Criminal Justice students and does not require agency sponsorship. Students must apply for admission into ROLEA. Contact faculty in the Criminal Justice Department for more information.

## Graduation Requirements

Students must successfully complete the credits 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. Four credits (132 hours) of documented cooperative work experience in criminal justice, supervised by a professional, are required unless a waiver is granted.



## Prerequisites

Course No.	Course Title	Credits
CS/CIS ____	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3

**Total Prerequisite Credits** **0-7**

## First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
CJ100	Foundations and Ethics in Criminal Justice	4
CJ110	Introduction to Law Enforcement (ROLEA credits may be substituted with advisor approval)	4
PSY101	Psychology of Human Relations 2 or BT101 Human Relations in Organizations	3
SP111	Fundamentals of Public Speaking or SP218 Interpersonal Communication	4
WR121	English Composition I	4
		19
<b>Second Term</b>		
CJ120	Introduction to the Judicial Process	4
CJ201/SOC221	Juvenile Delinquency	4
LIB127	Introduction to Library Research Methods	1
PSY201	General Psychology I	4
WR122	English Composition II	4
		17

### Third Term

CJ101/SOC244	Introduction to Criminology	4
CJ130	Introduction to Corrections	4
CJ214	Crime, Justice and Diversity	4
MTH60	Fundamentals of Algebra I or MTH63 Applied Algebra I or BT160 Business Math or higher level math (MTH105 or higher recommended for transfer)	4
HE112	Emergency First Aid or	
HE261	CPR/Basic Life Support Provider (ROLEA credits may be substituted with advisor approval)	1
		17

**Total First Year Credits** **53**

## Second Year Required Courses

Course No.	Course Title	Credits
<b>Fourth Term</b>		
CJ220	Law: Substantive Law and Liability (ROLEA credits may be substituted with advisor approval)	4
ECON201	Principles of Microeconomics or approved program elective <sup>2,3</sup>	3-4
—	Approved humanities elective (see this catalog for approved list of electives)	3-4
—	Approved program elective <sup>3</sup>	3-4
		13-16
<b>Fifth Term</b>		
CJ221	Law: Constitutional Criminal Procedure	4
CJ280	Cooperative Work Experience/Criminal Justice (ROLEA credits may be substituted with advisor approval)	4
—	Approved humanities elective (see catalog for approved list of electives)	3-4
—	Approved program elective <sup>3</sup>	3-4
—	Approved program elective <sup>3</sup>	0-4
		14-20

## Sixth Term

CJ223	Law: Evidence and Trial Process	4
CJ270	Capstone Project in Criminal Justice	4
ECON202	Principles of Macroeconomics or approved program elective 2, 3	3-4
—	Approved humanities elective (see this catalog for approved list of electives)	3-4
—	Approved program elective <sup>3</sup>	0-3
		14-19

**Total Second Year Credits** **41-55**

**TOTAL PROGRAM CREDITS** **94-108**

<sup>1</sup> Required for graduation.

<sup>2</sup> Recommended and/or required course for students pursuing the Bachelor of Applied Science degree at SOU. See advisor for details.

## <sup>3</sup> Approved Program Electives

(6-15 credits required)

Note: Students using ROLEA credits to fulfill program requirements should see an advisor for further information and application.

Course No.	Course Title	Credits
BA101	Introduction to Business (acceptable if taken for 3 credits)	4
BA211	Financial Accounting I <sup>2</sup>	4
BA212	Financial Accounting II <sup>2</sup>	4
BA213	Managerial Accounting <sup>2</sup>	4
BA214	Business Communications	4
BA226	Business Law	4
BT111	Conflict Management	2
CJ191	ROLEA Module 1	4
CJ192	ROLEA Module 2	4
CJ193	ROLEA Module 3	3
CJ194	ROLEA Module 4	4
CJ195	ROLEA Module 5	3
CJ196	ROLEA Module 6	2
CJ197	ROLEA Module 7	3
CJ198	ROLEA Module 8	3
CJ199	Special Studies: Criminal Justice	variable
CJ203	Crisis Intervention	3
CJ210	Criminal Investigation	4
CJ229	Community Corrections and Casework	4
CJ243/SOC243	Drugs, Crime and Addiction	4
HDFS260	Child Abuse and Neglect	3
PS201	U.S. Government I	3
PS202	U.S. Government II	3
PS203	U.S. Government III	3
PSY202	General Psychology II	4
PSY215	Life Span Human Development	4
PSY219	Introduction to Abnormal Psychology	4
SOC204	Introduction to Sociology	4
SOC205	American Society	4
SOC211	Social Deviance and Social Control	3
SOC213	Race and Ethnicity in the U.S.	4
SOC225	Social Problems and Solutions	4
WR110	Understanding English Grammar	2
WR227	Technical Writing	4

## Criminal Justice Experience and Inservice Training

Up to 18 credits may be applied to the Criminal Justice AAS degree program for students that have completed certified law enforcement or corrections academies, and inservice training in criminal justice fields in recognition of career experiences. See a program advisor for more information.



For more information contact the Criminal Justice Department:

Grants Pass or Medford . . . . . 541-245-7965  
Toll free in Oregon . . . . . 800-411-6508, Ext. 7965  
email . . . . . criminaljustice@roguecc.edu  
Web address . . . . . www.roguecc.edu/criminaljustice  
TTY . . . . . Oregon Telecom Relay Service 711

## Criminal Justice Transfer to Southern Oregon University Associate of Science Degree

### About the Program

This Associate of Science degree has been developed with the cooperation and support of Southern Oregon University (SOU). The degree is fully articulated with SOU's Criminal Justice program and allows students to transfer directly to SOU without loss of credits to pursue a bachelor's degree. The program offers an excellent balance of criminal justice and liberal education courses that support advanced study in criminal justice.

Students should contact the SOU Criminal Justice Department 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 CCJ298 Orientation to the SOU Criminal Justice Major at SOU during the first term. For more information contact Tanya Blakeley at 541-552-8095 or 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. Program learning outcomes for criminal justice programs are:

Integrate and apply acquired knowledge and skills related to justice administration systems, crime control policy, theory, law, and technology to effectively manage and control problems related to crime and public safety in jurisdictions of employment.

Work in teams and in collaborative environments with stakeholders in communities of interest to develop solutions to problems of crime and public safety within those communities of interest.

Apply a strong ethic of public service, personal, and professional growth, in their respective roles to include a commitment to apply culturally sensitive strategies of communication and problem-solving in the 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

A Criminal Justice program advisor must provide advising and approval of a student's program prior to registration.

Prospective students should be aware of entry requirements of criminal justice agencies prior to considering criminal justice fields as a career choice. Conditions such as impaired hearing and/or eyesight, impaired physical agility, or a criminal history may preclude employment in some agencies. Students should discuss their individual circumstances with advisors and determine if any issues might preclude employment in the field.

### Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the department chair'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 Criminal Justice Department chair to determine placement.

## Graduation Requirements

Students must successfully complete all credits 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.

### Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH95	Intermediate Algebra or MTH96 Applied Algebra II or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
<b>Total Prerequisite Credits</b>		<b>0-11</b>

### General Education Requirements

Course No.	Course Title	Credits
COMM225	Small Group Communication and Problem-solving or SP100 Basic Communication or SP111 Fundamentals of Public Speaking or SP218 Interpersonal Communication	3-4
LIB127	Introduction to Academic Research	1
MTH243	Probability and Statistics	4
PS203	American Government III	3
PSY201	General Psychology I	4
PSY202	General Psychology II	4
WR121	English Composition I	4
WR122	English Composition II or WR227 Technical Writing	4
—	Approved humanities electives <sup>1</sup>	9-12
—	Approved lab science electives <sup>2</sup>	8-10
—	Approved science elective <sup>2</sup>	3-5
<b>Total General Education Credits</b>		<b>47-55</b>

### Required Core Courses

Course No.	Course Title	Credits
CJ100	Foundations and Ethics in Criminal Justice	4
CJ101/SOC244	Introduction to Criminology	4
CJ110	Introduction to Law Enforcement	4
CJ120	Introduction to the Judicial Process	4
CJ130	Introduction to Corrections	4
CJ201/SOC221	Juvenile Delinquency	4
CJ214	Crime, Justice and Diversity	4
CJ220	Law: Substantive Law and Liability	4
CJ221	Law: Constitutional Criminal Procedure	4
CJ223	Law: Evidence and Trial Process	4
CJ270	Capstone Project in Criminal Justice	4
—	Approved program electives <sup>3</sup>	6-8
<b>Total Core Credits</b>		<b>50-52</b>

**TOTAL PROGRAM CREDITS** **97-107**

### <sup>1</sup> Approved Humanities Electives

(complete at least three courses from the following list, 9-12 credits)

Course No.	Course Title	Credits
ART131	Introduction to Drawing	3
ART204,205,206	History of Art I, II, III	4-4-4
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	3-3-3



ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215, 216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SP115	Introduction to Intercultural Communication	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141	Fundamentals of Acting	4
WR241,242,243	Imaginative Writing I, II, III	4-4-4

## 2 Approved Science Electives

(Complete at least three courses – two of which must have labs – from the following list, 11-15 credits; a three-term lab science sequence is recommended for transfer but not required. Note that only one course can be a regional field studies course indicated by asterisk.)

Course No.	Course Title	Credits
BI100GB	Introductory Biology (non-lab course)	3
BI100SB	Biology of Human Body Systems (non-lab course)	3
BI101,102,103	Introduction to Biology with lab I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM105R	Introductory Organic Chemistry Recitation	1
CHEM106	Introductory Biochemistry with lab	4
CHEM106R	Introductory Biochemistry Recitation	1
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CIS195	Web Authoring I (HTML/CSS) (non-lab course)	4
ENV111	Introduction to Environmental Science (non-lab course)	3
G100	Fundamentals of Geology (non-lab course)	3
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GEOG100	Introduction to Physical Geography (non-lab course)	3
GS104,106,107,108	Physical Science with lab	4-4-4-4
GS170 *	Regional Field Studies with lab	4
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

## 3 Approved Program Electives (6-8 credits required)

Course No.	Course Title	Credits
BA214	Business Communications	4
CJ199	Special Topics/Criminal Justice	variable
CJ203	Crisis Intervention	3
CJ210	Criminal Investigation	4
CJ229	Community Corrections and Casework	4
CJ243/SOC243	Drugs, Crime and Addiction	4
CJ280	Cooperative Work Experience/Criminal Justice	1-4
HDFS260	Child Abuse and Neglect	3
HPE295	Health and Fitness for Life or	
HE250	Personal Health	3

HUM101	Introduction to Humanities	4
PS202	U. S. Government II	3
PSY215	Life Span Human Development	4
PSY219	Introduction to Abnormal Psychology	4
SOC204	Introduction to Sociology	4
SOC205	American Society	4
SOC211	Social Deviance and Social Control	3
SOC213	Race and Ethnicity in the U.S.	4
SOC225	Social Problems and Solutions	4
SP115	Introduction to Intercultural Communication	4
WR227	Technical Writing (if not taken as part of general education core)	4

Note: Students who have graduated from high school or completed a high school equivalency program in 1997 or after must have the following requirement for admission to a four-year Oregon university: 1) Two years of the same high school-level world language, or 2) two terms of college-level world language with a grade of "C" or better (may be first-year world language, which can be used as elective credits on the Associate of Arts Oregon Transfer degree). If students plan to complete a Bachelor of Arts (BA) degree at a four-year school, they must have a proficiency in a world language regardless of when they graduated from high school or equivalency program.

For more information contact the Criminal Justice Department:

Grants Pass or Medford . . . . . 541-245-7965  
Toll free in Oregon . . . . . 800-411-6508, Ext. 7965  
email . . . . . criminaljustice@roguecc.edu  
Web address . . . . . www.roguecc.edu/criminaljustice  
TTY . . . . . Oregon Telecom Relay Service, 711

## Dental Assistant Certificate of Completion

### About the Program

This four-term certificate program prepares students to meet the requirements to become dental assistants with expanded functions (EFDA). Successful completion of the program leads to eligibility to sit for the Dental Assisting National Board's (DANB) certified dental assisting (CDA) exam. The curriculum is based in general dentistry; students are trained in four-handed chair-side assisting techniques to work with general dentists during all phases of patient examination and treatment.

Program students attend classes as part of a structured cohort that begins each year in summer term. Students should apply early as the required mandatory orientation is scheduled several months prior to the summer start. Note: Students may still be working on prerequisites to cohort acceptance classes when applying.

Working dental assistants with six months of current, continuous, chair-side employment may also enroll in classes without formal admittance into the program, and without joining a cohort. Working dental assistants may attend most classes, but preference will be given to cohort students. Working dental assistants can enhance their education and eligibility to sit for the Dental Assisting National Board's (DANB) certified dental assisting (CDA) exam by taking RCC dental classes.

If students intend to transfer to Oregon Tech's bachelor's degree in Allied Health Management after successfully passing the registry or licensure exam, transfer courses should be chosen from the list of electives where possible. See an advisor for more information or visit [www.oit.edu/programs/klamath-falls/management/allied-health-management/overview](http://www.oit.edu/programs/klamath-falls/management/allied-health-management/overview).

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

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 program are:

Demonstrate patient education and management skills:

Provide oral health instruction and counseling. Recommend home-care strategies. Recognize patient abilities to properly care for their teeth. Translate dental terminology to layman's terms.



Advise patients on impact of diet on oral health. Identify normal and pathological abnormalities of the oral structures. Perform extra oral tissue examinations.

Demonstrate administrative office skills:

Accurately review health history forms with patients. Practice effective interpersonal and communication skills. Model professional conduct and appearance, and demonstrate professional behaviors consistent to the dental workplace. Identify and effectively manage time and resources.

Demonstrate occupational safety skills:

Apply current concepts of infection control and occupational safety. Engage and assist in the management of medical and dental emergencies and administer basic life support procedures, when indicated. Demonstrate proficiency in sterilizing instruments and disinfecting equipment.

Demonstrate general chair-side skills:

Assist in diagnostic and operative procedures. Perform clinical supportive functions during pre-treatment, treatment, and post-treatment phases. Demonstrate proper tray setups. Identify and differentiate between esthetic and restorative treatment procedures.

Demonstrate fluency and competency dealing with legal and ethical issues:

Practice exercising sound clinical judgment while performing duties within existing ethical and legal parameters of the clinical dental practice. Practice compliancy with OSHA, OR-OSHA, and HIPAA regulations.

Demonstrate radiographic proficiencies:

Demonstrate proper film placement for intra- and extra-oral films and expose, process, and mount radiographs of diagnostic quality. Effectively communicate radiographic safety techniques and concerns to patients and peers and acquire maximum diagnostic yield with minimal exposure to radiation.

Demonstrate dental and laboratory sciences skills:

Apply knowledge of basic dental sciences in professional setting, use correct dental terminology, take alginate impressions, and complete laboratory procedures, including pouring and trimming molds and study casts.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

This is a limited-entry program. Cohort students must meet certain minimum academic requirements (MTH20, RD90 and WR90, or WR91) before the program application due date. All listed program prerequisites must be satisfactorily completed before beginning the cohort.

## Selection Process

All applications will be date stamped and reviewed in the order received. Applicants will be selected by committee. The screening process includes a mandatory orientation and an interview. A criminal background check and drug screening will be required for students once they are accepted into the program. This is a competitive program and not all qualified applicants may be accepted.

## 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 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 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.

## Prerequisites to Application

Course No.	Course Title	Credit
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or	

WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score

0-8

## Total Prerequisite Credits

0-12

## Prerequisites to Cohort Acceptance <sup>1</sup>

Course No.	Course Title	Credit
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
BT113	Business English I or WR115 Introduction to Expository Writing or higher level composition class <sup>2</sup>	3-4
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or BT160 Business Math or higher level math	4
SP100	Basic Communication or SP111 Fundamentals of Public Speaking or SP218 Interpersonal Communication	3-4

## Total Prerequisite to Cohort Credits

13-19

## Required Courses

Course No.	Course Title	Credit
<b>First Term (Summer)</b>		
AH100	Medical Terminology	3
AH105	Communication and Professional Behavior	2
DA101	Dental Assisting I	4
DA101A/B	Dental Assisting I Lab	1
DA202	Infection Control	2
HE252	First Aid/CPR 1 or HE112 Emergency First Aid and HE261 CPR/Basic Life Support Provider	2-3
		14-15

## Second Term (Fall)

DA102	Dental Assisting II	4
DA102A/B	Dental Assisting II Lab	1
DA103	Dental Materials	2
DA104	Dental Administration	2
DA150	Introduction to Practicum and Seminar	1
DA201	Dental Radiology	4
		14

## Third Term (Winter)

DA105	Legal and Ethical Issues in Dentistry	2
DA106	Dental and Medical Emergency Management	2
DA152	Practicum and Seminar in Dental Assisting I	4
DA201A/B	Radiology Lab	2
DA203	Chair-side Assisting	2
		12

## Fourth Term (Spring)

DA153	Practicum and Seminar in Dental Assisting II	4
DA204	Expanded Functions Dental Assistant	2
DA204A/B	Expanded Functions Dental Assistant Lab	1
—	Approved program elective	0-5
		7-12

## TOTAL PROGRAM CREDITS

47-53



## Approved Program Electives (0-5 credits allowed)

Course No.	Course Title	Credit
AH110	Medical Terminology: Clinical	3
BA101	Introduction to Business	4
BT102	Introduction to Supervision	3
CG100	College Success and Survival	2
CG105	Finding the Money: Scholarship Essay Writing	1
HCI120	Introduction to Health Care Industry	3
HS152	Stress Management	1
LIB127	Introduction to Academic Research	1
MTH	Any math course numbered MTH60 or above (if not taken to fulfill math requirement)	4-5
RD115	Speedreading for College	3
SP100	Basic Communication (if not taken as prerequisite)	3
SP111	Fundamentals of Public Speaking (if not taken as prerequisite)	4
SP218	Interpersonal Communication	4
SPAN101,102,103	First Year Spanish I, II, III	4-4-4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
SRV101	Service Learning	1-3
WR110	Understanding English Grammar	2
WR121	English Composition I (if not taken to fulfill writing requirement)	4
WR122	English Composition II	4
WR227	Technical Writing	4
—	Any college-level science course numbered 100 and above	3-5
—	Any health or physical education course	variable

<sup>1</sup> Required for graduation.

<sup>2</sup> Students who have successfully completed the 3-credit version of BT113 will have met the composition requirement.

For more information contact the Dental Assistant program coordinator:

Grants Pass or Medford. . . . . 541-245-7750  
Toll free in Oregon . . . . . 800-411-6508, Ext. 7750  
email . . . . . dental@rogucecc.edu  
Web address . . . . . www.rogucecc.edu/alliedhealth/dental  
TTY . . . . . Oregon Telecom Relay Service, 711

## Design and Digital Media Associate of Applied Science Degree

### 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, 3D modeling, digital animation and digital photography.

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for Design and Digital Media programs are:

**Problem Solving:** Solve communication problems and carry projects from creation through to the production process; including the skills of problem identification, research and information gathering, analysis, generation of alternative solutions, prototyping, user testing, integration of feedback and the evaluation of outcomes.

**Communication.** Describe and respond to the audiences and contexts, which communication solutions must address, including recognition of the physical, cognitive, cultural, and social human factors that shape design decisions.

**Demonstration.** Create and develop visual concepts in response to communication problems, including an understanding of the principles of visual organization, information hierarchy, symbolic representation, typography, aesthetics, and the construction of original meaningful forms.

**Technique.** Understand tools and technology, including their roles in the creation, reproduction, and distribution of visual messages. Relevant tools and technologies include drawing, offset printing, photography, and time-based and interactive media.

**Application.** Be able both to determine the mode(s) of production required to achieve a specific product and to demonstrate level-appropriate mastery of skills, manual and/or digital, necessary to achieve those products. Apply the principles of color, composition, hierarchy, typography as they relate in the various media—digital, print, motion, 3-D, etc.—that exist in design.

**Aesthetic Fluency.** Recognize and apply aesthetic principles of design history, theory, and criticism from a variety of perspectives, including those of art history, linguistics, communication and information theory, technology, and the social and cultural use of design objects.

**Professionalism.** Understand the basic business practices and trade ethics related to graphic arts, including the ability to organize design projects and to work productively in client-designer and team relationships in the implementation and evaluation of projects.

**Portfolio.** Organize and present a portfolio of work that gives evidence of the skills, knowledge, and abilities to begin a graphic design career or transfer to a four-year college for additional study.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Design and Digital Media Coordinator'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.

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 [www.sou.edu/degreecompletion](http://www.sou.edu/degreecompletion).

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 and review the roadmap at [www.rogucecc.edu/Programs/CareerPathways](http://www.rogucecc.edu/Programs/CareerPathways).

### 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.

### Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH20	Pre-algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or BT113 Business English I or designated placement test score	0-4

**Total Prerequisite Credits** **0-12**

### General Education Requirements

Course No.	Course Title	Credits
HE250	Personal Health or HE112 Emergency First Aid or	



	HE252 First Aid/CPR or	
	HE261 CPR/Basic Life Support Provider or	
	HPE295 Health and Fitness for Life	1-3
LIB127	Introduction to Academic Research	1
MTH63	Applied Algebra I or	
	MTH60 Fundamentals of Algebra I or higher level math	4
PSY101	Psychology of Human Relations	3
SP111	Fundamentals of Public Speaking or	
	SP218 Interpersonal Communication	4
WR121	English Composition I	4
<b>Total General Education Credits</b>		<b>17-19</b>

## Required Core Courses

Course No.	Course Title	Credits
ART115	Basic Design (Composition)	3
ART116	Basic Design (Color Theory)	3
ART245	Drawing for Graphic Design or	
	ART222 Graphic Design (Typography)	3
BT106	Advertising or	
	BA243 Social Media Marketing	3
CIS195	Web Authoring I (HTML/CSS)	4
DDM120	Digital Graphic Design I	3
DDM130	Intro to Web Tools	3
DDM131	Content Management Systems (Word Press)	3
DDM140	Electronic Publishing I (InDesign)	3
DDM141	Electronic Publishing II	3
DDM150	Computer Illustration (Illustrator)	3
DDM160	Digital Imaging (Photoshop)	3
DDM200	Survey of Graphic Design History	3
DDM220	Digital Graphic Design II	3
DDM221	Production Graphics	3
DDM223	Digital Graphic Design III	3
DDM224	Digital Graphic Design IV	3
DDM229	Portfolio and Professional Practices	3
DDM230	Design Studio or	
	DDM280 Cooperative Work Experience/Design and Digital Media	3
—	Approved program electives	15-20
<b>Total Required Core Credits</b>		<b>73-78</b>
<b>TOTAL PROGRAM CREDITS</b>		<b>90-97</b>

## Approved Program Electives (15-20 credits required)

Course No.	Course Title	Credits
ART131	Introduction to Drawing (Value)	3
ART132	Introduction to Drawing (Line)	3
ART222	Graphic Design II (Typography) (if not taken as core requirement)	3
ART234	Figure Drawing	3
ART237	Illustration (Black and White Media)	3
ART238	Illustration (Color Media)	3
ART239	Illustration (Perspective)	3
ART281	Painting I	3
ART294	Watercolor I	3
BA223	Principles of Marketing or	
	BT250 Entrepreneurship	3
BT121	Digital Marketing and e-Commerce	4
CIS196	Web Authoring II (HTML/CSS)	4
DDM125	Digital Photography	3
DDM161	Advanced Digital Imaging	4
DDM170	Motion Graphics (After Effects)	3
DDM180	Introduction to Digital Video (Premiere)	3

DDM181	Advanced Digital Video	3
DDM190	Introduction to Animation (Animate)	3
DDM225	3D Graphics I (Blender)	3
DDM235	Website Design I	4
DDM280	Cooperative Work Experience/Graphic Design	variable
MTH	Any math course, MTH65 or higher	variable

For more information contact the Design and Digital Media Department:

Grants Pass	541-956-7213
Medford	541-245-7527
Toll free in Oregon	800-411-6508, Ext. 7213 or Ext. 7527
email	cs@rogucecc.edu
Web address	www.rogucecc.edu/cs
TTY	Oregon Telecom Relay Service, 711

## Design and Digital Media Certificate of Completion

### About the Program

The Design and Digital Media four-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.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.rogucecc.edu/GainfulEmployment](http://www.rogucecc.edu/GainfulEmployment).

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for Design and Digital Media are:

**Problem Solving:** Solve communication problems and carry projects from creation through to the production process; including the skills of problem identification, research and information gathering, analysis, generation of alternative solutions, prototyping, user testing, integration of feedback and the evaluation of outcomes.

**Demonstration.** Create and develop visual concepts in response to communication problems, including an understanding of the principles of visual organization, information hierarchy, symbolic representation, typography, aesthetics, and the construction of original meaningful forms.

**Technique.** Understand tools and technology, including their roles in the creation, reproduction, and distribution of visual messages. Relevant tools and technologies include drawing, offset printing, photography, and time-based and interactive media.

**Professionalism.** Understand the basic business practices and trade ethics related to graphic arts, including the ability to organize design projects and to work productively in client-designer and team relationships in the implementation and evaluation of 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Design and Digital Media Coordinator'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 Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor and review the roadmap at [www.roguecc.edu/Programs/CareerPathways](http://www.roguecc.edu/Programs/CareerPathways).

## 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH20	Pre-algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or BT113 Business English I or designated placement test score	0-4
<b>Total Prerequisite Credits</b>		<b>0-12</b>

## Required Technical Courses

Course No.	Course Title	Credits
<b>Fall Term</b>		
ART115	Basic Design (Composition)	3
DDM120	Digital Graphic Design I	3
DDM140	Electronic Publishing I (InDesign)	3
DDM160	Digital Imaging (Photoshop)	3
WR121	English Composition I	4
		16
<b>Winter Term</b>		
ART116	Basic Design (Color Theory)	3
ART131	Introduction to Drawing I (Value) or ART222 Graphic Design (Typography)3	
DDM141	Electronic Publishing II	3
DDM150	Computer Illustration (Illustrator)	3
PSY101	Psychology of Human Relations	3
		15
<b>Spring Term</b>		
ART245	Drawing for Graphic Design or ART237 Illustration (Black and White Media)	3
DDM130	Intro to Web Tools	3
DDM220	Digital Graphic Design II	3
DDM221	Production Graphics	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
		16
<b>TOTAL PROGRAM CREDITS</b>		<b>47</b>

For more information contact the Design and Digital Media Department:

Grants Pass ..... 541-956-7213  
 Medford ..... 541-245-7527  
 Toll free in Oregon ..... 800-411-6508, Ext. 7213 or Ext. 7527  
 email ..... [cs@roguecc.edu](mailto:cs@roguecc.edu)  
 Web address ..... [www.roguecc.edu/cs](http://www.roguecc.edu/cs)  
 TTY ..... Oregon Telecom Relay Service, 711

# Design and Digital Media: Adobe® Applications Technician Career Pathways Certificate

## About the Program

The Adobe® Applications Technician Career Pathways one-term 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. It is the first step 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.

Students enrolled in the Adobe® Applications Technician Certificate will use the books recommended by Adobe® for preparation in becoming an Adobe® Certified Expert (ACE). Students who are interested in becoming an 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. Program learning outcomes for Design and Digital Media programs are:

**Technique.** Understand tools and technology, including their roles in the creation, reproduction, and distribution of visual messages. Relevant tools and technologies include drawing, offset printing, photography, and time-based and interactive media.

**Application.** Be able both to determine the mode(s) of production required to achieve a specific product and to demonstrate level-appropriate mastery of skills, manual and/or digital, necessary to achieve those products. Apply the principles of color, composition, hierarchy, typography as they relate in the various media—digital, print, motion, 3-D, etc.—that exist in design.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies and the Design and Digital Media Coordinator'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 Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor and review the roadmap below and at [www.roguecc.edu/Programs/CareerPathways](http://www.roguecc.edu/Programs/CareerPathways).

## 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.

### Design and Digital Media: Adobe® Applications Technician Career Pathways Certificate of Completion (15 credits)

- Entry-level desktop publisher<sup>1</sup>

### Design and Digital Media — Certificate of Completion (47 credits)

- Desktop publisher 1
- Entry-level graphic designer<sup>1</sup>



### Design and Digital Media — Associate of Applied Sciences (AAS) (90-97 credits)

- Advanced-level desktop publisher and graphic designer as advertising designer, digital artist, experience designer, pre-press production designer, publication designer, web graphics designer, web designer<sup>1</sup>

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.roguecc.edu/CareerPathways/](http://www.roguecc.edu/CareerPathways/)

## 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

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/ Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-4
<b>Total Prerequisite Credits</b>		<b>0-16</b>

## Required Courses

Course No.	Course Title	Credit
DDM140	Electronic Publishing I (InDesign)	3
DDM150	Computer Illustration (Illustrator)	3
DDM160	Digital Imaging (Photoshop)	3
DDM180	Introduction to Digital Video (Premiere)	3
DDM190	Introduction to Animation (Animate) or DDM170 Motion Graphics (After Effects)	3
<b>TOTAL PROGRAM CREDITS</b>		<b>15</b>

For more information contact the Design and Digital Media Department:

Grants Pass	541-956-7213
Medford	541-245-7527
Toll free in Oregon	800-411-6508, Ext. 7213 or Ext. 7527
email	cs@roguecc.edu
Web address	www.roguecc.edu/cs
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.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies,

job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

## 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 diesel technology programs are:

Work within OSHA, RCC, and current industry safety guidelines and standards to promote a safe working environment.

Read wiring diagrams and schematics, measure voltage, amperage and resistance with common industry equipment, evaluate and troubleshoot wiring, charging and starting problems.

Evaluate, troubleshoot and repair diesel engines, heavy-duty brakes, suspension and steering, power train assemblies, air conditioning and basic hydraulics.

Evaluate and troubleshoot computerized systems on the chassis, engine, brakes and suspension, evaluate fault codes, and make repairs as needed.

Work in a cohesive group on a collective project from beginning to end, producing high quality work while adhering to safety and lab procedures.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8
<b>Total Prerequisite Credits</b>		<b>0-16</b>

## Technical Requirements

Course No.	Course Title	Credits
<b>First Term</b>		
BT113	Business English I or higher level composition <sup>2</sup>	4
DS111	Basic Electricity for Diesel Technicians I	7
DS120	Diesel Practices	5
		16
<b>Second Term</b>		
DS131	Diesel Engine Dynamics and Diagnosis	4
DS134	Basic Electricity for Diesel Technicians II	3
DS141	Heavy Equipment Power Trains	4
		11



### Third Term

DS113	Diesel Engine Overhaul	6
DS151	Heavy Equipment Brakes	5
DS190	Diesel Repair Lab I	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4 18

### Fourth Term (Summer)

BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
DS232	Heavy Equipment Fuel Systems	3
DS270	Air Conditioning for Diesel Technicians	5
	Approved program elective(s)	0-6 11-17

**TOTAL PROGRAM CREDITS** **56-62**

### Approved Program Electives (0-6 credits allowed)

Course No.	Course Title	Credits
AM190	Automotive Repair Lab I	4
BA109	Ready, Set, Work: Techniques for Landing a Job	2
DS112	Gasoline Engines Rebuild	5
DS199	Selected Topic Workshop	1-6 variable
DS280	Cooperative Work Experience/Diesel	1
DS280S	Cooperative Work Experience Seminar/Diesel	3
DS290	Diesel Repair Lab II	3
EET101	Introduction to Electronics	3
EET112	Introduction to Mechatronics	5
GS104	Physical Science with lab	4
MEC103	Industrial Safety	1
MEC124	Hoisting and Rigging	3
MFG121	Manufacturing Processes I	4

<sup>1</sup> Required for graduation.

<sup>2</sup> WR115 or higher level composition may also be substituted.

For more information contact the Diesel Technology Department:

Grants Pass or Medford ..... 541-245-7809  
Toll free in Oregon ..... 800-411-6508, Ext. 7809  
email ..... diesel@roguecc.edu  
Web address ..... www.roguecc.edu/diesel  
TTY ..... Oregon Telecom Relay Service, 711

## Diesel Technology Associate of Applied Science Degree

### 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 ([www.sou.edu/degreecompletion](http://www.sou.edu/degreecompletion)) or Oregon Tech's (<http://www.oit.edu/academics/academic-agreements/articulations>) 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](http://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 diesel technology programs are:

Work within OSHA, RCC, and current industry safety guidelines and standards to promote a safe working environment.

Read wiring diagrams and schematics, measure voltage, amperage and resistance with common industry equipment, evaluate and troubleshoot wiring, charging and starting problems.

Evaluate, troubleshoot and repair diesel engines, heavy-duty brakes, suspension and steering, power train assemblies, air conditioning and basic hydraulics.

Evaluate and troubleshoot computerized systems on the chassis, engine, brakes and suspension, evaluate fault codes, and make repairs as needed.

Work in a cohesive group on a collective project from beginning to end, producing high quality work while adhering to safety and lab procedures.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### 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.

### Prerequisites

Course No.	Course Title	Credits
CS/CIS120	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

**Total Prerequisite Credits** **0-16**

### First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
BT113	Business English I or higher level composition <sup>2</sup>	4
DS111	Basic Electricity for Diesel Technicians I	7
DS120	Diesel Practices	5
LIB127	Introduction to Academic Research	1 17

### Second Term

BT114	Business English II <sup>3</sup>	4
DS131	Diesel Engine Dynamics and Diagnosis	4
DS134	Basic Electricity for Diesel Technicians II	3
DS141	Heavy Equipment Power Trains	4 15



### Third Term

DS113	Diesel Engine Overhaul	6
DS151	Heavy Equipment Brakes	5
DS190	Diesel Repair Lab I	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math <sup>4</sup>	$\frac{4}{18}$

### Fourth Term (Summer)

BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations <sup>5</sup>	3
DS270	Air Conditioning for Diesel Technicians	5
DS275	Preventative Maintenance Inspection	$\frac{5}{13}$

**Total First Year Credits** **63**

## Second Year Required Courses

Course No.	Course Title	Credits
<b>Fifth Term</b>		
DS160	Heavy Equipment Suspension and Steering Systems	5
WLD111D	Technology of Industrial Welding I (Diesel)	$\frac{6}{11}$

### Sixth Term

DS233	Computerized Vehicle Management Systems	6
DS280S	Cooperative Work Experience Seminar/Diesel	1
—	Approved program elective(s)	$\frac{4-6}{11-13}$

### Seventh Term

DS232	Heavy Equipment Fuel Systems	3
DS260	Hydraulic Systems	3
DS280	Cooperative Work Experience/Diesel 6 or DS290 Diesel Repair Lab II	3
HE112	Emergency First Aid or HE261 CPR/Basic Life Support Provider	$\frac{1}{10}$

**Total Second Year Credits** **32-34**

**TOTAL PROGRAM CREDITS** **95-97**

## Approved Program Electives (4-6 credits required)

Course No.	Course Title	Credits
AM190	Automotive Repair Lab I	4
BA109	Ready, Set, Work: Techniques for Landing a Job	2
DS112	Gasoline Engines Rebuild	5
DS199	Selected Topic Workshop	1-6
DS280	Cooperative Work Experience/Diesel	variable
DS290	Diesel Repair Lab II (if not taken as required course)	3
EET101	Introduction to Electronics	3
EET112	Introduction to Mechatronics	5
GS104	Physical Science with lab (recommended for transfer)	4
MEC103	Industrial Safety	1
MEC124	Hoisting and Rigging	3
MFG121	Manufacturing Processes I	4
MTH65	Fundamentals of Algebra II or higher level math	4-5
WLD112	Technology of Industrial Welding II	6
WR122	English Composition II	4
WR227	Technical Writing	4
	Approved humanities elective (see catalog for approved list of electives)	3-4
	Approved social science elective (see catalog for approved list of electives)	3-4

<sup>1</sup> Required for graduation.

<sup>2</sup> WR115 or higher level composition may be substituted.

<sup>3</sup> WR121 recommended for transfer and may be substituted.

<sup>4</sup> MTH105 or higher recommended for transfer.

<sup>5</sup> PSY101 recommended for transfer.

<sup>6</sup> Can be taken anytime during the program with permission of advisor.

For more information contact the Diesel Technology Department:

Grants Pass or Medford. . . . . 541-245-7809  
Toll free in Oregon . . . . . 800-411-6508, Ext. 7809  
email . . . . . diesel@roguecc.edu  
Web address . . . . . www.roguecc.edu/diesel  
TTY . . . . . Oregon Telecom Relay Service, 711

## Early Childhood Development Transfer to Southern Oregon University Associate of Science Degree

### 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. 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 ED399 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 early childhood education programs are:

Promote child development and learning: Students will be able to demonstrate their understanding of a) children's characteristics and needs and b) the multiple interacting influences on children's development and learning; and c) Students will be able to use developmental knowledge to create learning environments that are healthy, respectful, supportive, and challenging for each child.

Build family and community relationships: a) Students will know about, understand, and value the importance and complex characteristics of children's families and communities; b) Students will be able to support and engage families and communities through respectful, reciprocal relationships; and c) Students will be able to involve families and communities in their children's development and learning.

Observe, document, and assess: a) Students will understand the goals, benefits, and uses of assessment; b) Students will know about and use observations, documentation, and other appropriate assessment tools and approaches; c) Students will understand and practice responsible assessment to promote positive outcomes for each child; and d) Students will know about assessment partnerships with families and with professional colleagues.

Use developmentally effective approaches to connect with children and families: a) Students will understand positive relationships and supportive interactions as the foundation of their work with children; b) Students will know and understand effective strategies and tools for early childhood and/or elementary education; c) Students will use a broad repertoire of developmentally appropriate



teaching/learning approaches; and d) Students will reflect on their own practice to promote positive outcomes for each child.

Use content knowledge to build meaningful curriculum: a) Students will understand content knowledge and resources in academic disciplines; b) Students will know and use the central concepts, inquiry tools, and structures of content areas or academic disciplines; and c) Students will use their own knowledge, appropriate early childhood or elementary learning standards, and other resources to design, implement, and evaluate meaningful, challenging curricula for every child.

Demonstrate professionalism: a) Students will identify and involve themselves with the early childhood and/or elementary education field; b) Students will know about and uphold ethical guidelines and other professional guidelines; c) Students will engage in continuous, collaborative learning to inform practice; d) Students will integrate knowledgeable, reflective, and critical perspectives on education; and e) Students will engage in informed advocacy for children and the profession.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

Students are also required to provide information regarding their measles immunization status by completing the form found on the RCC ECEE Department website and clicking on "Measles Immunization." Completed forms must be submitted to a department administrative assistant.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Some of these sites may require a background check in order for a student to participate. Future employment serving children and families will require a background check. Students may wish to consider going through a background check process to be ready for potential observation, practicum, and employment experiences – check with an ECEE advisor for additional information.

For some classes, early childhood education students are required to use the Redwood Early Childhood Center, which is a Head Start site. Therefore, all students in the Early Childhood Education program must obtain prior clearance from Head Start. The process for doing this is on the Southern Oregon Head Start website, [www.socfc.org](http://www.socfc.org). Click on "Volunteer" and then on "Download Volunteer Packet." Required paperwork must be completed before observing or participating at a Head Start site.

## 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. Each College Now credit 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH96	Applied Algebra II or MTH95 Intermediate Algebra or designated placement test score	0-4
PSY101	Psychology of Human Relations <sup>1</sup>	3
WR115	Introduction to Expository Writing or BT113 Business English I or designated placement test score	0-4

**Total Prerequisite Credits 3-15**

## General Education Requirements

Course No.	Course Title	Credits
HE250	Personal Health or HPE295 Health and Fitness for Life	3
LIB127	Introduction to Academic Research	1
<b>100</b>		

MTH243	Probability and Statistics or other approved math elective <sup>2</sup>	4
GEOG110	Introduction to Cultural and Human Geography	3
SP111	Fundamentals of Public Speaking or SP218 Interpersonal Communication	4
WR121	English Composition I	4
WR122	English Composition II or WR227 Technical Writing	4
—	Approved humanities elective <sup>3</sup>	9-12
—	Approved science elective <sup>4</sup>	11

**Total General Education Requirements 43-46**

## Core Requirements

Course No.	Course Title	Credits
ECE100	Introduction to Early Childhood Education	3
ECE151	Guiding Children in Group Settings	3
ECE152	Fostering Creativity	3
ECE154	Children's Literature and Literacy	3
ECE161	Infant/Toddler Development	3
ECE163	Preschool/Primary Development	3
ECE175	Developmentally Appropriate Practices	3
ECE240	Play-based Learning	3
ECE241	Promoting Cognitive Development	3
ECE243	Promoting Child Health and Physical Development	3
ECE244	Observation and Assessment	3
ECE245	Promoting Social and Emotional Development of Young Children	3
ECE246	Child, Family and Community	3
ECE248	Children with Disabilities and Their Families or ECE265 Children at Risk	3
ECE250	Infant/Toddler Environment or ECE251 Preschool Environments	3
ECE254	Preschool Curriculum or ECE255 Infant/Toddler Materials and Activities or ECE256 Primary Curriculum	3
ECE261	Advanced Practicum I and Seminar	3
ECE266	Spanish for Early Childhood/Elementary Professionals	3
ECE275	Anti-bias Education	3
ECE285	The Early Childhood Professional	3
ED170	Introductory Practicum	2

**Total Core Credits 62**

**TOTAL PROGRAM CREDITS 105-108**

<sup>1</sup> Required for graduation.

## <sup>2</sup> Approved Math Electives

(complete at least one course, 4-5 credits – MTH211, MTH212 and MTH213 are required for application to the Master of Arts in Teaching (MAT) program at SOU)

Course No.	Course Title	Credits
MTH105	Introduction to Contemporary Math	4
MTH111	College Algebra	4
MTH112	Elementary Functions	4
MTH211,212	Fundamentals of Elementary Math I, II (must take both)	4-4
MTH243	Probability and Statistics	4
MTH251	Calculus I	5

## <sup>3</sup> Approved Humanities Electives

(complete at least three courses from the following list, 9-12 credits)

Course No.	Course Title	Credits
ART131	Introduction to Drawing	3
ART204,205,206	History of Art I, II, III	4-4-4
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4



ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
IS110	Introduction to International Studies I	4
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SP115	Introduction to Intercultural Communication	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141	Fundamentals of Acting	4
WR241,242,243	Imaginative Writing I, II, III	4-4-4

#### 4 Approved Science/Lab Science Electives

(Complete at least three courses, two of which must have labs, from the following list for a minimum of 11 credits. Note that only one course can be a regional field studies course indicated by asterisk.)

Course No.	Course Title	Credits
BI100GB *	Introductory Biology (non-lab course)	3
BI100SB *	Biology of Human Body Systems (non-lab course)	3
BI101,102,103 *	Introduction to Biology I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM105R	Introductory Organic Chemistry Recitation	1
CHEM106	Introductory Biochemistry with lab	4
CHEM106R	Introductory Biochemistry Recitation	1
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CIS195	Web Authoring I (HTML/CSS) (non-lab course)	4
ENV111 *	Introduction to Environmental Science (non-lab course)	3
G100 *	Fundamentals of Geology (non-lab course)	3
G101,102,103 *	Introduction to Geology I, II, III with lab	4-4-4
GEOG100	Introduction to Physical Geography (non-lab course)	3
GS104,106,107,108 *	Physical Science with lab	4-4-4-4
GS170 *	Regional Field Studies with lab	4
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

\*Denotes courses commonly taken by ECEE students.

Note: Students who have graduated from high school or completed a high school equivalency program in 1997 or after must have the following requirement for admission to a four-year Oregon university: 1) Two years of the same high school-level world language, or 2) two terms of college-level world language with a grade of "C" or better (may be first-year world language, which can be used as elective credits on the Associate of Arts Oregon Transfer degree). If students plan to complete a Bachelor of Arts (BA) degree at a four-year school, they must have a proficiency in a world language regardless of when they graduated from high school or equivalency program.

For more information contact the Early Childhood and Elementary Education Department:

Grants Pass or Medford. . . . . 541-245-7504  
Toll free in Oregon . . . . . 800-411-6508, Ext. 7066 or 7504  
email . . . . . ecee@rogucecc.edu  
Web address . . . . . www.rogucecc.edu/ecee  
TTY . . . . . Oregon Telecom Relay Service, 711

## Early Childhood Education Associate of Applied Science Degree

### 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 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 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 child care, and will complete 240 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 [www.pdx.edu/occd/oregon-registry-2](http://www.pdx.edu/occd/oregon-registry-2) and click on Oregon Registry.

### 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 early childhood education programs are:

Promote child development and learning: Students will be able to demonstrate their understanding of a) children's characteristics and needs and b) the multiple interacting influences on children's development and learning; and c) Students will be able to use developmental knowledge to create learning environments that are healthy, respectful, supportive, and challenging for each child.

Build family and community relationships: a) Students will know about, understand, and value the importance and complex characteristics of children's families and communities; b) Students will be able to support and engage families and communities through respectful, reciprocal relationships; and c) Students will be able to involve families and communities in their children's development and learning.

Observe, document, and assess: a) Students will understand the goals, benefits, and uses of assessment; b) Students will know about and use observations, documentation, and other appropriate assessment tools and approaches; c) Students will understand and practice responsible assessment to promote positive outcomes for each child; and d) Students will know about assessment partnerships with families and with professional colleagues.

Use developmentally effective approaches to connect with children and families: a) Students will understand positive relationships and supportive interactions as the foundation of their work with children; b) Students will know and understand effective strategies and tools for early childhood and/or elementary education; c) Students will use a broad repertoire of developmentally appropriate teaching/learning approaches; and d) Students will reflect on their own practice to promote positive outcomes for each child.



Use content knowledge to build meaningful curriculum: a) Students will understand content knowledge and resources in academic disciplines; b) Students will know and use the central concepts, inquiry tools, and structures of content areas or academic disciplines; and c) Students will use their own knowledge, appropriate early childhood or elementary learning standards, and other resources to design, implement, and evaluate meaningful, challenging curricula for every child.

Demonstrate professionalism: a) Students will identify and involve themselves with the early childhood and/or elementary education field; b) Students will know about and uphold ethical guidelines and other professional guidelines; c) Students will engage in continuous, collaborative learning to inform practice; d) Students will integrate knowledgeable, reflective, and critical perspectives on education; and e) Students will engage in informed advocacy for children and the profession.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

Students are also required to provide information regarding their measles immunization status by completing the form found on the RCC Early Childhood and Elementary Education Department website and clicking on "Measles Immunization." Completed forms must be submitted to a department secretary.

Students must also obtain an RCC student identification card. RCC photos will be taken on a scheduled basis in the Student Services area on the Redwood Campus, Grants Pass (541-956-7090), or upstairs in G Building at the Riverside Campus, Medford (541-245-7560). Students should take their schedules to obtain an identification card. Take the identification card each time an observation is scheduled in an early childhood setting.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Some of these sites may require a background check in order for a student to participate. Future employment serving children and families will require a background check. Students may wish to consider going through a background check process to be ready for potential observation, practicum, and employment experiences – check with an ECEE advisor for additional information.

For some classes, early childhood education students are required to use the Redwood Early Childhood Center, which is a Head Start site. Therefore, all students in the Early Childhood Education program must obtain prior clearance from Head Start. The process for doing this is on the Southern Oregon Head Start website, [www.socfc.org](http://www.socfc.org). Click on "Volunteer" and then on "Download Volunteer Packet." Required paperwork must be completed before observing or participating at a Head Start site.

## Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Early Childhood 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 and review the roadmap at [www.rogucecc.edu/Programs/CareerPathways](http://www.rogucecc.edu/Programs/CareerPathways).

## 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. Three hundred (300) hours of supervised practicum are required unless a waiver is granted for approved activities.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
WR115	Introduction to Expository Writing or BT113 Business English I or designated placement test score	0-4
<b>Total Prerequisite Credits</b>		<b>0-8</b>
<b>102</b>		

## First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
ECE125	Early Childhood Development <sup>1</sup>	3
ECE126	Early Childhood Education Best Practices <sup>1</sup>	3
ECE152	Fostering Creativity	3
ECE161	Infant/Toddler Development	3
PSY101	Psychology of Human Relations <sup>1</sup>	3
		15
<b>Second Term</b>		
ECE135	Applied Child Development <sup>1</sup>	3
ECE136	Early Childhood Education: A Professional Overview <sup>1</sup>	3
ECE151	Guiding Children in Group Settings	3
ECE154	Children's Literature and Literacy	3
ECE163	Preschool/Primary Development	3
		15
<b>Third Term</b>		
ECE175	Developmentally Appropriate Practices	3
ECE246	Child, Family and Community	3
ECE250	Infant/Toddler Environments or ECE251 Preschool Environment or ECE252 Family Child Care Environments	3
ECE266	Spanish for Early Childhood/Elementary Professionals	3
ED170	Introductory Practicum	1
—	Approved program elective	0-4
		13-17
<b>Total First Year Credits</b>		<b>43-47</b>

## Second Year Required Courses

Course No.	Course Title	Credits
<b>Fourth Term (Summer)</b>		
HE250	Personal Health or HPE295 Health and Fitness for Life	3
SP111	Fundamentals of Public Speaking or SP218 Interpersonal Communication	4 7
<b>Fifth Term</b>		
ECE243	Promoting Child Health and Physical Development	3
ECE244	Observation and Assessment	3
ECE254	Preschool Curriculum or ECE255 Infant/Toddler Materials and Activities or ECE256 Primary Curriculum	3
ECE275	Anti-bias Education	3
ED170	Introductory Practicum	1
LIB127	Introduction to Academic Research, or LIB101 Introduction to Information Literacy	1 14
<b>Sixth Term</b>		
ECE240	Play-based Learning	3
ECE241	Promoting Cognitive Development	3
ECE261	Advanced Practicum I and Seminar	3
ECE265	Children at Risk	3
WR121	English Composition I or BT114 Business English II	4 16
<b>Seventh Term</b>		
ECE245	Promoting Social/Emotional Development of Young Children	3
ECE248	Children with Disabilities and Their Families	3



ECE262	Advanced Practicum II and Seminar	3
ECE285	The Early Childhood Professional	3
MTH63	Applied Algebra I or BT160 Business Math or MTH60 Fundamentals of Algebra I or higher level math as designated by placement test score (MTH105 or higher recommended for transfer)	4 16

**Total Second Year Credits** **53**  
**TOTAL PROGRAM CREDITS** **96-100**

## Approved Program Electives

(one or more courses for a maximum of 4 credits)

Course No.	Course Title	Credits
ECE199	Selected Topics in Early Childhood Education	1-3
ECE242	Parenting Education and Family Support	3
ECE258	Early Childhood Home Visitation	3
ECE295	Management of Early Childhood Programs	3
ED165	Child Development	3
FR101,102,103	First Year French I, II, III	4-4-4
PSY202	General Psychology II	4
SOC204	Introduction to Sociology	4
SOC213	Race and Ethnicity in the U.S.	4
SPAN101,102,103	First Year Spanish I, II, III	4-4-4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
SRV101	Service Learning	1-3
WR110	Understanding English Grammar	2

<sup>1</sup> Prerequisite: WR90.

For more information contact the Early Childhood and Elementary Education Department:

Grants Pass ..... 541-956-7066  
Medford ..... 541-245-7504  
Toll free in Oregon ..... 800-411-6508, Ext. 7066 or 7504  
email ..... ecee@rogucecc.edu  
Web address ..... www.rogucecc.edu/ecee  
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, go to [www.pdx.edu/occd/oregon-registry-2](http://www.pdx.edu/occd/oregon-registry-2) and click on Oregon Registry.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.rogucecc.edu/GainfulEmployment](http://www.rogucecc.edu/GainfulEmployment).

## 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 early childhood education programs are:

Promote child development and learning: Students will be able to demonstrate their understanding of a) children's characteristics and needs and b) the multiple interacting influences on children's development and learning; and c) Students will be able to use developmental knowledge to create learning environments that are healthy, respectful, supportive, and challenging for each child.

Build family and community relationships: a) Students will know about, understand, and value the importance and complex characteristics of children's families and communities; b) Students will be able to support and engage families and communities through respectful, reciprocal relationships; and c) Students will be able to involve families and communities in their children's development and learning.

Observe, document, and assess: a) Students will understand the goals, benefits, and uses of assessment; b) Students will know about and use observations, documentation, and other appropriate assessment tools and approaches; c) Students will understand and practice responsible assessment to promote positive outcomes for each child; and d) Students will know about assessment partnerships with families and with professional colleagues.

Use developmentally effective approaches to connect with children and families: a) Students will understand positive relationships and supportive interactions as the foundation of their work with children; b) Students will know and understand effective strategies and tools for early childhood and/or elementary education; c) Students will use a broad repertoire of developmentally appropriate teaching/learning approaches; and d) Students will reflect on their own practice to promote positive outcomes for each child.

Use content knowledge to build meaningful curriculum: a) Students will understand content knowledge and resources in academic disciplines; b) Students will know and use the central concepts, inquiry tools, and structures of content areas or academic disciplines; and c) Students will use their own knowledge, appropriate early childhood or elementary learning standards, and other resources to design, implement, and evaluate meaningful, challenging curricula for every child.

Demonstrate professionalism: a) Students will identify and involve themselves with the early childhood and/or elementary education field; b) Students will know about and uphold ethical guidelines and other professional guidelines; c) Students will engage in continuous, collaborative learning to inform practice; d) Students will integrate knowledgeable, reflective, and critical perspectives on education; and e) Students will engage in informed advocacy for children and the profession.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

Students are also required to provide information regarding their measles immunization status by completing the form found on the RCC Early Childhood and Elementary Education Department website and clicking on "Measles Immunization." Completed forms must be submitted to a department secretary.

Students must also obtain an RCC student identification card. RCC photos will be taken on a scheduled basis in the Student Services area on the Redwood Campus, Grants Pass (541-956-7090), or upstairs in G Building at the Riverside Campus, Medford (541-245-7560). Students should take their schedules to obtain an identification card. Take the identification card each time an observation is scheduled in an early childhood setting.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Some of these sites may require a background check in order for a student to participate. Future employment serving children and families will require a background check. Students may wish to consider going through a background check process to be ready for potential observation, practicum, and employment experiences – check with an ECEE advisor for additional information.

For some classes, early childhood education students are required to use the Redwood Early Childhood Center, which is a Head Start site. Therefore, all students in the Early Childhood Education program must obtain prior clearance from Head Start. The process for doing this is on the Southern Oregon Head Start website, [www.socfc.org](http://www.socfc.org). Click on "Volunteer" and then on "Download Volunteer Packet." Required paperwork must be completed before observing or participating at a Head Start site.



## Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Early Childhood 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 and review the roadmap at [www.roguecc.edu/Programs/CareerPathways](http://www.roguecc.edu/Programs/CareerPathways).

## 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition <sup>1</sup>	<u>3-4</u>

**Total Prerequisite Credits** **3-8**

## Required Program Courses

Course No.	Course Title	Credits
<b>First Term</b>		
ECE125	Early Childhood Development	3
ECE126	Early Childhood Education Best Practices	3
ECE152	Fostering Creativity	3
HE250	Personal Health or HPE295 Health and Fitness for Life	<u>3</u> 12
<b>Second Term</b>		
ECE135	Applied Child Development	3
ECE136	Early Childhood Education: A Professional Overview	3
ECE151	Guiding Children in Group Settings	3
ECE154	Children's Literature and Literacy	3
ED170	Introductory Practicum	<u>1</u> 13
<b>Third Term</b>		
ECE163	Preschool/Primary Development	3
ECE175	Developmentally Appropriate Practices	3
ED170	Introductory Practicum	1
ECE246	Child, Family and Community	3
PSY101	Psychology of Human Relations <sup>2</sup>	<u>2</u> 13
<b>Fourth Term</b>		
ECE161	Infant/Toddler Development	3
ECE250	Infant/Toddler Environments or ECE251 Preschool Environment or ECE252 Family Child Care Environments	<u>3</u> 3
ECE266	Spanish for Early Childhood /Elementary Professionals	3
MTH63	Applied Algebra I or BT160 Business Math or higher level math as designated by placement test score or MTH60 Fundamentals of Algebra I (MTH105 or higher recommended for transfer)	<u>4</u> 4
	Approved program elective(s)	<u>0-3</u> 13-16

## TOTAL PROGRAM CREDITS

51-54

## Approved Program Electives

(a maximum of 3 credits allowed)

Course No.	Course Title	Credits
ECE199	Selected Topics in Early Childhood Education	1-3
SRV101	Service Learning	1-3
WR110	Understanding English Grammar	2

<sup>1</sup> Required for graduation.

<sup>2</sup> Prerequisite: WR90

For more information contact the Early Childhood and Elementary Education Department:

Grants Pass	541-956-7066
Medford	541-245-7504
Toll free in Oregon	800-411-6508, Ext. 7066 or 7504
email	<a href="mailto:ecce@roguecc.edu">ecce@roguecc.edu</a>
Web address	<a href="http://www.roguecc.edu/ecce">www.roguecc.edu/ecce</a>
TTY	Oregon Telecom Relay Service, 711

## Early Childhood Education (Basic) Career Pathways 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, go to [www.pdx.edu/occd/oregon-registry-2](http://www.pdx.edu/occd/oregon-registry-2) and click on Oregon Registry.

## 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 early childhood education programs are:

Promote child development and learning: Students will be able to demonstrate their understanding of a) children's characteristics and needs and b) the multiple interacting influences on children's development and learning; and c) Students will be able to use developmental knowledge to create learning environments that are healthy, respectful, supportive, and challenging for each child.

Build family and community relationships: a) Students will know about, understand, and value the importance and complex characteristics of children's families and communities; b) Students will be able to support and engage families and communities through respectful, reciprocal relationships; and c) Students will be able to involve families and communities in their children's development and learning.

Observe, document, and assess: a) Students will understand the goals, benefits, and uses of assessment; b) Students will know about and use observations, documentation, and other appropriate assessment tools and approaches; c) Students will understand and practice responsible assessment to promote positive outcomes for each child; and d) Students will know about assessment partnerships with families and with professional colleagues.

Use developmentally effective approaches to connect with children and families: a) Students will



understand positive relationships and supportive interactions as the foundation of their work with children; b) Students will know and understand effective strategies and tools for early childhood and/or elementary education; c) Students will use a broad repertoire of developmentally appropriate teaching/learning approaches; and d) Students will reflect on their own practice to promote positive outcomes for each child.

Use content knowledge to build meaningful curriculum: a) Students will understand content knowledge and resources in academic disciplines; b) Students will know and use the central concepts, inquiry tools, and structures of content areas or academic disciplines; and c) Students will use their own knowledge, appropriate early childhood or elementary learning standards, and other resources to design, implement, and evaluate meaningful, challenging curricula for every child.

Demonstrate professionalism: a) Students will identify and involve themselves with the early childhood and/or elementary education field; b) Students will know about and uphold ethical guidelines and other professional guidelines; c) Students will engage in continuous, collaborative learning to inform practice; d) Students will integrate knowledgeable, reflective, and critical perspectives on education; and e) Students will engage in informed advocacy for children and the profession.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

Students must score above RD90 and WR90 in order to take ECE courses but no minimal score is required in math. Students taking designated classes through The Job Council may defer taking the placement test until they have completed CDA coursework. For more information, call 541-956-7066.

Students are also required to provide information regarding their measles immunization status by completing the form found on the RCC Early Childhood and Elementary Education Department website and clicking on "Measles Immunization." Completed forms must be submitted to a department secretary.

Students must also obtain an RCC student identification card. RCC photos will be taken on a scheduled basis in the Student Services area on the Redwood Campus, Grants Pass (541-956-7090), or upstairs in G Building at the Riverside Campus, Medford (541-245-7560). Students should take their schedules to obtain an identification card. Take the identification card each time an observation is scheduled in an early childhood setting.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Some of these sites may require a background check in order for a student to participate. Future employment serving children and families will require a background check. Students may wish to consider going through a background check process to be ready for potential observation, practicum, and employment experiences – check with an ECEE advisor for additional information.

For some classes, early childhood education students are required to use the Redwood Early Childhood Center, which is a Head Start site. Therefore, all students in the Early Childhood Education program must obtain prior clearance from Head Start. The process for doing this is on the Southern Oregon Head Start website, [www.socfc.org](http://www.socfc.org). Click on "Volunteer" and then on "Download Volunteer Packet." Required paperwork must be completed before observing or participating at a Head Start site.

## Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Early Childhood 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 and review the roadmap at [www.roguecc.edu/Programs/CareerPathways](http://www.roguecc.edu/Programs/CareerPathways).

### Early Childhood Education (Basic), Career Pathways Certificate (13 credits)

- Entry-level daycare provider, child care worker, or nanny <sup>1</sup>

### Early Childhood Education (Intermediate), Career Pathways Certificate (32 credits)

- Daycare provider, child care worker, or nanny <sup>1</sup>
- Teacher aides/assistants <sup>1</sup>

### Early Childhood Education, Certificate of Completion (51-54 credits)

- Daycare provider, child care worker, or nanny <sup>1</sup>
- Preschool teacher <sup>1</sup>
- Teacher assistant <sup>1</sup>

### Early Childhood Education, Associate of Applied Science (AAS) (96-100 credits)

- Preschool and child care administrators <sup>1</sup>

### Early Childhood Development, Associate of Science (AS) (105-108 credits)

- Preschool and child care administrators <sup>1</sup>

### Elementary Education Associate Science (AS) (90-100 credits)

- Preschool and child care administrators <sup>1</sup>

### Early Childhood Development SOU, Bachelor's articulated with RCC's AS degree

- Preschool teacher <sup>1</sup>

### Elementary Education SOU, Bachelor's articulated with RCC's AS degree

- Kindergarten teacher <sup>1</sup>
- Elementary school teacher <sup>1</sup>

### Management, SOU, Bachelor of Applied Science articulated with RCC's AAS degree

- Supervisor/manager <sup>1</sup>
- Business owner <sup>1</sup>

### Early Childhood Development SOU, Master's degree

- Elementary school administrator <sup>1</sup>
- Special education teacher <sup>1</sup>

### Elementary Education with continuing license, SOU, Master's degree

- Elementary school administrator <sup>1</sup>
- Special education teacher <sup>1</sup>

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.roguecc.edu/CareerPathways/](http://www.roguecc.edu/CareerPathways/)

## 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.

## Prerequisites

Course No.	Course Title	Credits
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8
<b>Total Prerequisite Credits</b>		<b>0-8</b>

## Required Program Courses

Course No.	Course Title	Credits
ECE125	Early Childhood Development	3
ECE126	Early Childhood Education Best Practices	3
ECE135	Applied Child Development	3
ECE136	Early Childhood Education: A Professional Overview	3
ED170	Introductory Practicum	1
<b>TOTAL PROGRAM CREDITS</b>		<b>13</b>



For more information contact the Early Childhood and Elementary Education Department:

Grants Pass ..... 541-956-7066  
Medford ..... 541-245-7504  
Toll free in Oregon ..... 800-411-6508, Ext. 7066 or 7504  
email ..... [ecce@roguecc.edu](mailto:ecce@roguecc.edu)  
Web address ..... [www.roguecc.edu/ecce](http://www.roguecc.edu/ecce)  
TTY ..... Oregon Telecom Relay Service, 711

## Early Childhood Education (Intermediate) Career Pathways 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, go to [www.pdx.edu/occd/oregon-registry-2](http://www.pdx.edu/occd/oregon-registry-2) and click on Oregon Registry.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

### 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 early childhood education programs are:

Promote child development and learning: Students will be able to demonstrate their understanding of a) children's characteristics and needs and b) the multiple interacting influences on children's development and learning; and c) Students will be able to use developmental knowledge to create learning environments that are healthy, respectful, supportive, and challenging for each child.

Build family and community relationships: a) Students will know about, understand, and value the importance and complex characteristics of children's families and communities; b) Students will be able to support and engage families and communities through respectful, reciprocal relationships; and c) Students will be able to involve families and communities in their children's development and learning.

Observe, document, and assess: a) Students will understand the goals, benefits, and uses of assessment; b) Students will know about and use observations, documentation, and other appropriate assessment tools and approaches; c) Students will understand and practice responsible assessment to promote positive outcomes for each child; and d) Students will know about assessment partnerships with families and with professional colleagues.

Use developmentally effective approaches to connect with children and families: a) Students will understand positive relationships and supportive interactions as the foundation of their work with children; b) Students will know and understand effective strategies and tools for early childhood and/or elementary education; c) Students will use a broad repertoire of developmentally appropriate teaching/learning approaches; and d) Students will reflect on their own practice to promote positive outcomes for each child.

Use content knowledge to build meaningful curriculum: a) Students will understand content

knowledge and resources in academic disciplines; b) Students will know and use the central concepts, inquiry tools, and structures of content areas or academic disciplines; and c) Students will use their own knowledge, appropriate early childhood or elementary learning standards, and other resources to design, implement, and evaluate meaningful, challenging curricula for every child.

Demonstrate professionalism: a) Students will identify and involve themselves with the early childhood and/or elementary education field; b) Students will know about and uphold ethical guidelines and other professional guidelines; c) Students will engage in continuous, collaborative learning to inform practice; d) Students will integrate knowledgeable, reflective, and critical perspectives on education; and e) Students will engage in informed advocacy for children and the profession.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

Students are also required to provide information regarding their measles immunization status by completing the form found on the RCC Early Childhood and Elementary Education Department website and clicking on "Measles Immunization." Completed forms must be submitted to a department secretary.

Students must also obtain an RCC student identification card. RCC photos will be taken on a scheduled basis in the Student Services area on the Redwood Campus, Grants Pass (541-956-7090), or upstairs in G Building at the Riverside Campus, Medford (541-245-7560). Students should take their schedules to obtain an identification card. Take the identification card each time an observation is scheduled in an early childhood setting.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Some of these sites may require a background check in order for a student to participate. Future employment serving children and families will require a background check. Students may wish to consider going through a background check process to be ready for potential observation, practicum, and employment experiences – check with an ECEE advisor for additional information.

For some classes, early childhood education students are required to use the Redwood Early Childhood Center, which is a Head Start site. Therefore, all students in the Early Childhood Education program must obtain prior clearance from Head Start. The process for doing this is on the Southern Oregon Head Start website, [www.socfc.org](http://www.socfc.org). Click on "Volunteer" and then on "Download Volunteer Packet." Required paperwork must be completed before observing or participating at a Head Start site.

### Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Early Childhood 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 and review the roadmap at [www.roguecc.edu/Programs/CareerPathways](http://www.roguecc.edu/Programs/CareerPathways).

#### Early Childhood Education (Basic), Career Pathways Certificate (13 credits)

- Entry-level daycare provider, child care worker, or nanny<sup>1</sup>

#### Early Childhood Education (Intermediate), Career Pathways Certificate (32 credits)

- Daycare provider, child care worker, or nanny<sup>1</sup>
- Teacher aides/assistants<sup>1</sup>

#### Early Childhood Education, Certificate of Completion (51-54 credits)

- Daycare provider, child care worker, or nanny<sup>1</sup>
- Preschool teacher<sup>1</sup>
- Teacher assistant<sup>1</sup>



<b>Early Childhood Education, Associate of Applied Science (AAS) (96-100 credits)</b> <ul style="list-style-type: none"> <li>Preschool and child care administrators <sup>1</sup></li> </ul>	<b>Early Childhood Development, Associate of Science (AS) (105-108 credits)</b> <ul style="list-style-type: none"> <li>Preschool and child care administrators <sup>1</sup></li> </ul>	<b>Elementary Education Associate Science (AS) (90-100 credits)</b> <ul style="list-style-type: none"> <li>Preschool and child care administrators <sup>1</sup></li> </ul>
<b>Early Childhood Development SOU, Bachelor's articulated with RCC's AS degree</b> <ul style="list-style-type: none"> <li>Preschool teacher <sup>1</sup></li> </ul>	<b>Elementary Education SOU, Bachelor's articulated with RCC's AS degree</b> <ul style="list-style-type: none"> <li>Kindergarten teacher <sup>1</sup></li> <li>Elementary school teacher <sup>1</sup></li> </ul>	<b>Management, SOU, Bachelor of Applied Science articulated with RCC's AAS degree</b> <ul style="list-style-type: none"> <li>Supervisor/manager <sup>1</sup></li> <li>Business owner <sup>1</sup></li> </ul>
<b>Early Childhood Development SOU, Master's degree</b> <ul style="list-style-type: none"> <li>Elementary school administrator <sup>1</sup></li> <li>Special education teacher <sup>1</sup></li> </ul>	<b>Elementary Education with continuing license, SOU, Master's degree</b> <ul style="list-style-type: none"> <li>Elementary school administrator <sup>1</sup></li> <li>Special education teacher <sup>1</sup></li> </ul>	

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.roguecc.edu/CareerPathways/](http://www.roguecc.edu/CareerPathways/)

## 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.

## Prerequisites

Course No.	Course Title	Credits
WR115	Introduction to Expository Writing or BT113 Business English I or designated placement test score	0-4

**Total Prerequisite Credits** **0-4**

## Required Courses <sup>1</sup>

Course No.	Course Title	Credits
ECE125	Early Childhood Development <sup>2</sup>	3
ECE126	Early Childhood Education Best Practices <sup>2</sup>	3
ECE135	Applied Child Development <sup>2</sup>	3
ECE136	Early Childhood Education: A Professional Overview <sup>2</sup>	3
ECE151	Guiding Children in Group Settings	3
ECE152	Fostering Creativity	3
ECE161	Infant/Toddler Development	3
ECE163	Preschool/Primary Development	3
ECE175	Developmentally Appropriate Practices	3
ED170	Introductory Practicum	2
PSY101	Psychology of Human Relations	3

**TOTAL PROGRAM CREDITS** **32**

<sup>1</sup> It is recommended that students take a math course depending on placement test score.

<sup>2</sup> Prerequisite WR90.

For more information contact the Early Childhood and Elementary Education Department:

Grants Pass ..... 541-956-7066  
Medford ..... 541-245-7504  
Toll free in Oregon ..... 800-411-6508, Ext. 7066 or 7504  
email ..... [ecce@roguecc.edu](mailto:ecce@roguecc.edu)  
Web address ..... [www.roguecc.edu/ecce](http://www.roguecc.edu/ecce)  
TTY ..... Oregon Telecom Relay Service, 711

## Education – Elementary Interest Associate of Arts Oregon Transfer Degree

Please note: Students planning to transfer to Southern Oregon University in Elementary Education should enroll in the articulated AS Elementary Education program while at RCC, rather than the AAOT.

Students interested in teaching at the middle school or high school level need to select an AAOT Interest Area in the subject area they would like to teach, then major in that subject area at the University level for the Baccalaureate degree, completing their teaching requirements through the Master of Arts in Teaching (MAT) program at a University.

## Associate of Arts Oregon Transfer Degree

A total of 90 credits are required to complete the Associate of Arts Oregon Transfer (AAOT) degree and 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 graduation guide for full degree requirements. It is recommended that a student also consult with the transfer college of choice regarding specific prerequisites since requirements for an education-elementary major vary at each university. Students applying to the Master of Arts in Teaching program (MAT) are required to complete the following:

- Twelve (12) credit hours in Science, with at least one course in a Biological Science (Biology, Botany, Zoology, Anatomy/Physiology), and one course in a Physical Science (Chemistry, Physics, Geology, Astronomy). Students should refer to the AAOT science sections to review these course options.
- Twelve (12) credit hours of Language Arts– with at least one course in English literature, one course in Writing, and one course in Communication.
- Twelve (12) credit hours of Social science – one course in history, one course in geography and one course in behavioral science (Psychology, Sociology, Anthropology), and one course in History.
- MTH211, 212, 213 Fundamentals of Elementary Math I, II, III

Oregon public universities offering degrees in this subject:

Eastern Oregon University	<a href="http://www.eou.edu">www.eou.edu</a>
Oregon State University	<a href="http://www.oregonstate.edu">www.oregonstate.edu</a>
Southern Oregon University	<a href="http://www.sou.edu">www.sou.edu</a>
University of Oregon	<a href="http://www.uoregon.edu">www.uoregon.edu</a>
Western Oregon University	<a href="http://www.wou.edu">www.wou.edu</a>

## Electronics Technician Certificate of Completion

### About the Program

The Electronics Technician four-term certificate program is designed for students seeking entry-level electronics technician positions in manufacturing or service industries. The program emphasizes theory fundamentals, practical troubleshooting, and basic electronics design as well as general studies courses. Technical courses involve extensive lab work using industry standard test equipment and practices.

This program will help students gain skills for entry into one of today's most dynamic and broad-based technical fields. Typical occupations include those of field engineers in business or communications fields, or line/maintenance technicians at manufacturing sites. Electronics training also provides excellent positioning for lateral movement into areas such as technical sales or technical writing.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).



## 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 electronics technician programs are:

Identify and solve real-world problems through the application of electronics theory and concepts.

Calibrate, test, and repair analog and digital circuitry using industry standard test equipment.

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.

Demonstrate life-long learning towards professional growth.

Negotiate and abide by the terms of agreement that define their employment.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## Advanced Standing

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

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CIS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
MTH20	Pre-algebra I or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8
<b>Total Prerequisite Credits</b>		<b>0-16</b>

## Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
EET112	Introduction to Mechatronics or EET129 Introduction to Embedded Systems	3
EET125	Electronics Fundamentals I (DC)	6
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
		13
<b>Second Term</b>		
EET126	Electronics Fundamentals II (AC)	6
EET130	Digital Fundamentals I	6
		12

## Third Term

EET131	Digital Fundamentals II	6
HE112	Emergency First Aid	1
WR115	Introduction to Expository Writing or WR121 English Composition I	3-4
—	Approved program elective(s)	2-3
		12-14

## Fourth Term

EET140	Solid State Fundamentals	6
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
—	Approved program elective(s)	3-5
		12-14

## TOTAL PROGRAM CREDITS

**49-53**

## Approved Program Electives

(one or more courses totaling 5-8 credits required)

Course No.	Course Title	Credits
BT121	Digital Marketing and e-Commerce	4
CIS	Any computer applications course, CIS125 or above	3-4
EET101	Introduction to Electronics	3
EET104	Introduction to Manufacturing Electronics	4
EET106	Electronic Assembly	3
EET112	Introduction to Mechatronics	3
EET113	Exploration of Alternative Energies	3
EET118	Introduction to Renewable Energy Systems	5
EET127	Exploring the Raspberry Pi	3
EET132	Digital Fundamentals III	5
EET180	Cooperative Work Experience/Electronics	4
EET199	Selected Topics in Technology	1-6
EET215	Operational Amplifiers and Linear Integrated Circuits	5
EET220	Solid State Devices	6
EET225	Electronics Troubleshooting	3
EET230	Radio Frequency Communications Fundamentals	6
EET240	Microcontrollers I	5
GS104	Physical Science with lab	4
MET101	Mechanical Drafting	3
MET121	CAD I: Mechanical (Solid Works)	3
MET122	CAD II: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy	3
MFG101	Introduction to Manufacturing	3
MFG121	Manufacturing Processes I	4
MFG230	Statistics and Quality Control	3
MTH65	Fundamentals of Algebra II or higher level math	4
WLD101	Welding Fundamentals	3
WR121	English Composition I (if not taken as part of core)	4
WR227	Technical Writing	4

<sup>1</sup> Required for graduation.

For more information contact the Electronics Technology Department:

Grants Pass or Medford	541-245-7809
Toll free in Oregon	800-411-6508, Ext. 7809
email	electronics@rogucecc.edu
Web address	www.rogucecc.edu/electronics
TTY	Oregon Telecom Relay Service, 711



# Electronics Technology

## Associate of Applied Science Degree

### About the Program

The Electronics Technology Associate of Applied Science degree provides students the necessary skills for entry into one of today's most dynamic and broad-based technical fields. The program emphasizes electronic theory fundamentals, troubleshooting and design, and involves both highly technical and general studies courses. Advanced courses include radio frequency and microwave communications, PC hardware, and microcontrollers and interfacing. Typical occupations include those of electronics test technicians at manufacturing sites or field engineers in the communications industry.

The technical courses involve extensive lab work using industry standard test equipment and practices. As a capstone, students design and build an electronics project to demonstrate their proficiencies of program outcomes. The AAS degree can be used for technical block transfers to four-year institutions' basic engineering programs, although continuing students will be advised to take additional transfer 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 electronics technology programs are:

Identify and solve real-world problems through the application of electronics theory and concepts.

Calibrate, test, and repair analog and digital circuitry using industry standard test equipment.

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.

Demonstrate life-long learning towards professional growth.

Negotiate and abide by the terms of agreement that define their employment.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and with the Electronics 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 RCC Enrollment Services Office.

### 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.

### Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
MTH20	Pre-algebra I or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes	

for both RD90 and WR90) or designated placement test score

0-8

### Total Prerequisite Credits

0-16

### First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
EET112	Introduction to Mechatronics or	
EET129	Embedded Systems – Arduino	3
EET125	Electronics Fundamentals I (DC)	6
MTH63	Applied Algebra I or	
	MTH60 Fundamentals of Algebra I or higher level math	4
		13
<b>Second Term</b>		
EET126	Electronics Fundamentals II (AC)	6
EET130	Digital Fundamentals I	6
WR115	Introduction to Expository Writing or	
	SP100 Basic Communication or	
	SP111 Fundamentals of Public Speaking or	
	SP218 Interpersonal Communication <sup>2</sup>	3-4
		15-16
<b>Third Term</b>		
CIS140	Introduction to Operating Systems	4
EET131	Digital Fundamentals II	6
EET140	Solid State Fundamentals	6
		16
<b>Fourth Term</b>		
HE112	Emergency First Aid	1
LIB127	Introduction to Academic Research	1
PSY101	Psychology of Human Relations or	
	BT101 Human Relations in Organizations	3
WR121	English Composition	4
		9

### Total First Year Credits

53-54

### Second Year Required Courses

Course No.	Course Title	Credits
<b>Fifth Term</b>		
CIS227	PC Hardware Fundamentals and Repair	5
EET215	Operational Amplifiers and Linear Integrated Circuits	5
EET220	Solid State Devices	6
		16
<b>Sixth Term</b>		
EET225	Electronics Troubleshooting	3
EET230	Radio Frequency Communications Fundamentals	6
EET240	Microcontrollers I	5
		14
<b>Seventh Term</b>		
EET205	International Society of Certified Electronics Technicians (ISCET)	
	Certification Preparation	1
EET235	Microwave Applications	5
EET241	Microcontrollers II	5
EET250	Prototype Development and Documentation or	
	EET280 Cooperative Work Experience/Electronics	4
	Approved program elective(s)	0-5
		15-20

### Total Second Year Credits

45-50

### TOTAL PROGRAM CREDITS

98-104



## Approved Program Electives

Course No.	Course Title	Credits
BA101	Introduction to Business	4
BT121	Digital Marketing and e-Commerce	4
CIS	Any computer applications course, CIS125 or above	3-4
EET101	Introduction to Electronics	3
EET104	Fundamentals of Manufacturing Electronics	4
EET106	Electronics Assembly	3
EET112	Introduction to Mechatronics (if not taken as part of core)	3
EET113	Exploration of Alternative Energies	3
EET118	Introduction to Renewable Energy Systems	5
EET127	Exploring Raspberry Pi	3
EET132	Digital Fundamentals III	5
EET180	Cooperative Work Experience / Electronics	Var
EET199	Selected Topics in Technology	1-5
GS104	Physical Science with lab	4
MEC150	PLC Motor Control	3
MET101	Mechanical Drafting	3
MET121	CAD I: Mechanical (SolidWorks)	3
MET122	CAD II: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy	3
MFG101	Introduction to Manufacturing	3
MFG121	Manufacturing Processes I	4
MFG220	Research and Development Prototyping	4
MFG230	Statistics and Quality Control	3
MFG241	CNC Programming – Mill	4
MFG242	CAM I: Mastercam	4
MFG243	CAM II: Mastercam	4
MFG244	CNC Programming – Lathe	3
MTH60R	Fundamentals of Algebra I Recitation	1
MTH65	Fundamentals of Algebra II or higher level math	4-5
MTH65R	Fundamentals of Algebra II Recitation	1
MTH111R	College Algebra Recitation	1
MTH112R	Elementary Functions Recitation	1
SP111	Fundamentals of Public Speaking (if not taken as part of core)	4
WLD101	Welding Fundamentals	3
WR122	English Composition II	4
WR227	Technical Writing	4

<sup>1</sup> Required for graduation.

<sup>2</sup> If students test out of WR115, they may take WR122 instead of speech upon completion of WR121.

For more information contact the Electronics Technology Department:

Grants Pass or Medford ..... 541-245-7809  
Toll free in Oregon ..... 800-411-6508, Ext. 7809  
e-mail ..... [electronics@rogucecc.edu](mailto:electronics@rogucecc.edu)  
Web address ..... [www.rogucecc.edu/electronics](http://www.rogucecc.edu/electronics)  
TTY ..... Oregon Telecom Relay Service, 711

## Elementary Education Transfer to Southern Oregon University Associate of Science Degree

### 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 teaching credential with early childhood (pre-kindergarten through fourth

grade) and/or elementary authorization (third through sixth grades).

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 degree transfers directly into the bachelor's degree program in Elementary Education 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 early childhood education programs are:

Promote child development and learning: Students will be able to demonstrate their understanding of a) children's characteristics and needs and b) the multiple interacting influences on children's development and learning; and c) Students will be able to use developmental knowledge to create learning environments that are healthy, respectful, supportive, and challenging for each child.

Build family and community relationships: a) Students will know about, understand, and value the importance and complex characteristics of children's families and communities; b) Students will be able to support and engage families and communities through respectful, reciprocal relationships; and c) Students will be able to involve families and communities in their children's development and learning.

Observe, document, and assess: a) Students will understand the goals, benefits, and uses of assessment; b) Students will know about and use observations, documentation, and other appropriate assessment tools and approaches; c) Students will understand and practice responsible assessment to promote positive outcomes for each child; and d) Students will know about assessment partnerships with families and with professional colleagues.

Use developmentally effective approaches to connect with children and families: a) Students will understand positive relationships and supportive interactions as the foundation of their work with children; b) Students will know and understand effective strategies and tools for early childhood and/or elementary education; c) Students will use a broad repertoire of developmentally appropriate teaching/learning approaches; and d) Students will reflect on their own practice to promote positive outcomes for each child.

Use content knowledge to build meaningful curriculum: a) Students will understand content knowledge and resources in academic disciplines; b) Students will know and use the central concepts, inquiry tools, and structures of content areas or academic disciplines; and c) Students will use their own knowledge, appropriate early childhood or elementary learning standards, and other resources to design, implement, and evaluate meaningful, challenging curricula for every child.

Demonstrate professionalism: a) Students will identify and involve themselves with the early childhood and/or elementary education field; b) Students will know about and uphold ethical guidelines and other professional guidelines; c) Students will engage in continuous, collaborative learning to inform practice; d) Students will integrate knowledgeable, reflective, and critical perspectives on education; and e) Students will engage in informed advocacy for children and the profession.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

Students are also required to provide information regarding their measles immunization status by completing the form found on the RCC ECEE Department website and clicking on "Measles Immunization." Completed forms must be submitted to a department secretary.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Some of these sites may require a background check in order for a student to participate. Future employment serving children and families will require a background check. Students may wish to consider going through a background check process to be ready for potential observation, practicum, and employment experiences – check with your ECEE advisor for additional information.

For some classes, early childhood education students are required to use the Redwood Early Childhood Center, which is a Head Start site. Therefore, all students in the Early Childhood



Education program must obtain prior clearance from Head Start. The process for doing this is on the Southern Oregon Head Start website, [www.socfc.org](http://www.socfc.org). Click on "Volunteer" and then on "Download Volunteer Packet." Required paperwork must be completed before observing or participating at a Head Start site.

## 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. Each College Now credit 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH96	Applied Algebra II 1 or MTH95 Intermediate Algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or BT113 Business English I or designated placement test score	0-4
<b>Total Prerequisite Credits</b>		<b>0-12</b>

## First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
ECE100	Introduction to Early Childhood Education (ECE)	3
ECE163	Preschool/Primary Development (ECE) or ED165 Child Development (ELEM)	3
LIB127	Introduction to Academic Research	1
WR121	English Composition I	4
—	Approved humanities elective <sup>2</sup>	4
		15
<b>Second Term</b>		
ECE151	Guiding Children in Group Settings	3
ED170	Introductory Practicum	1
SP111	Fundamentals of Public Speaking or SP218 Interpersonal Communication	4
WR122	English Composition II or WR227 Technical Writing	4
—	Approved history (social science) elective <sup>3</sup>	4
		16
<b>Third Term</b>		
ECE175	Developmentally Appropriate Practices (ECE) or ECE240 Play-based Learning	3
ED170	Introductory Practicum	1
GEOG110	Introduction to Cultural and Human Geography	3
HE250	Personal Health or HPE295 Health and Fitness for Life	3
—	Approved program electives	0-5
—	Approved science elective <sup>4</sup>	3-5
		13-20
<b>Total First Year Credits</b>		<b>44-51</b>

## Second Year Required Courses

Course No.	Course Title	Credits
<b>Fourth Term</b>		
ECE246	Child, Family and Community	3
MTH211	Fundamentals of Elementary Math I w/lab <sup>5</sup>	5
—	Approved humanities elective <sup>2</sup>	3-4
—	Approved lab science elective <sup>4</sup>	4-5
		15-17
<b>Fifth Term</b>		
ECE244	Observation and Assessment	3
ECE256	Primary Curriculum (ECE)	3
MTH212	Fundamentals of Elementary Math II w/lab <sup>5</sup>	5
—	Approved lab science elective <sup>4</sup>	4-5
		15-16
<b>Sixth Term</b>		
ECE245	Promoting Social and Emotional Development	3
ECE248	Children with Disabilities and Their Families or ECE265 Children at Risk	3
ECE266	Spanish for Early Childhood/Elementary Professionals	3
ECE275	Anti-bias Education	3
—	Approved humanities elective <sup>2</sup>	4
		16
<b>Total Second Year Credits</b>		<b>46-49</b>
<b>TOTAL PROGRAM CREDITS</b>		<b>90-100</b>

## Approved Program Electives

Course No.	Course Title	Credits
ECE152	Fostering Creativity	3
ECE154	Children's Literature and Literacy	3
ECE241	Promoting Cognitive Development	3
ECE285	The Early Childhood Professional (ECE)	3
MTH213	Fundamentals of Elementary Math III <sup>5</sup>	5
SPAN101,102,103	First Year Spanish I, II, III	4-4-4
SRV101	Service Learning	1-3

<sup>1</sup> MTH96 is not accepted as a pre-requisite for MTH211 at Southern Oregon University as it is at Rogue Community College. Students intending to take MTH211 at SOU, who take MTH96, will need to take the SOU Placement Test to determine that they have met the prerequisite.

## <sup>2</sup> Approved Humanities Electives

(Complete any three courses, 11-12 credits, from the following list. Courses have been pre-selected to meet Oregon Teacher Standards and Practices Commission licensure preparation. At least one course must be a literature course and one an art history course.)

Course No.	Course Title	Credits
ART131	Introduction to Drawing	3
ART204,205,206	History of Art I, II, III	4-4-4
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
FR101,102,103	First Year French I, II, III	4-4-4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS201	Introduction to Western Music	4



MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SP115	Introduction to Intercultural Communication	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141	Fundamentals of Acting	4
WR241,242,243	Imaginative Writing I, II, III	4-4-4

### **3 Approved Social Science Electives**

(Complete at least one history course, a minimum of 4 credits, from the following list.)

Course No.	Course Title	Credits
HST104	World Civilizations: Prehistory - Middle Ages	4
HST105	World Civilizations: Byzantium - Present	4
HST201	U.S. History through Reconstruction	4
HST202	U.S. History: Post-Reconstruction - Present	4

### **4 Approved Science/Lab Science Electives**

(Complete at least three courses, 11-15 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.)

Course No.	Course Title	Credits
BI100GB *	Introductory Biology (non-lab course)	3
BI100SB *	Biology of Human Body Systems (non-lab course)	3
BI101,102,103 *	Introduction to Biology I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM105R	Introductory Organic Chemistry Recitation	1
CHEM106	Introductory Biochemistry with lab	4
CHEM106R	Introductory Biochemistry Recitation	1
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CIS195	Web Authoring I (HTML/CSS) (non-lab course)	4
ENV111 *	Introduction to Environmental Science (non-lab course)	3
G100 *	Fundamentals of Geology (non-lab course)	3
G101,102,103 *	Introduction to Geology I, II, III with lab	4-4-4
GEOG100	Introduction to Physical Geography (non-lab course)	3
GS104,106,107,108 *	Physical Science with lab	4-4-4-4
GS170 *	Regional Field Studies with lab	4
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

\* MTH213 highly recommended for transfer.

\* Denotes courses commonly taken by ECEE students.

Note: Students who have graduated from high school or completed a high school equivalency program in 1997 or after must have the following requirement for admission to a four-year Oregon university:

1) Two years of the same high school-level world language, or 2) two terms of college-level world language with a grade of "C" or better (may be first-year world language, which can be used as elective credits on the Associate of Arts Oregon Transfer degree). If students plan to complete a Bachelor of Arts (BA) degree at a four-year school, they must have a proficiency in a world language regardless of when they graduated from high school or equivalency program.

For more information contact the Early Childhood and Elementary Education Department:

Grants Pass ..... 541-956-7066  
Medford ..... 541-245-7504  
Toll free in Oregon ..... 800-411-6508, Ext. 7066 or 7504  
email ..... ecee@rogucecc.edu  
Web address ..... www.rogucecc.edu/ecee  
TTY ..... Oregon Telecom Relay Service, 711

## **Emergency Medical Services Certificate of Completion**

### **About the Program**

The Emergency Medical Services (EMS) three-term certificate program is accredited by the Oregon Department of Education and the Oregon Health Authority – EMS. It 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.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes ([www.bls.gov/SOC/](http://www.bls.gov/SOC/)), graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.rogucecc.edu/GainfulEmployment](http://www.rogucecc.edu/GainfulEmployment).

### **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 emergency medical service programs 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.

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 of multiple personnel on emergency scenes.

Understand and follow workplace expectations regarding attendance, safety, conduct, and professionalism.

Describe and use defensive and safe driving techniques in the operation of emergency vehicles.

Demonstrate safe work practices in a variety of specific rescue situations including rope, water, wilderness, and confined space rescue.

### **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. In addition, students may also be required to enroll in classes that would increase their employability and success.

This program requires an application and satisfaction of certain course admission criteria prior to enrolling in the EMT courses (ES131, ES132). Information is available on department website ([www.rogucecc.edu/EmergencyServices/EMS](http://www.rogucecc.edu/EmergencyServices/EMS)) 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 for certification. In addition, students must meet the qualifications outlined by the Oregon Health Authority – EMS. Students are required to submit verification of certain immunizations and medical tests. Students will also be required to pass a drug screen and a criminal background investigation prior to their mandatory clinical time.

## 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.

## Prerequisites

Students are strongly encouraged to meet with an Emergency Services Department adviser prior to beginning any coursework.

Course No.	Course Title	Credits
BI211	General Biology I <sup>1</sup>	4
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>2</sup>	0-4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3

**Total Prerequisite Credits 4-15**

## Required Courses

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
BI231	Anatomy and Physiology I with lab	4
ES105	Introduction to Emergency Services	4
ES131	EMT Part I	4
ES131L	EMT Part I Lab	1
		16

### Second Term

BI232	Anatomy and Physiology II with lab	4
EMS170	Emergency Communication and Documentation	2
ES132	EMT Part II	4
ES132L	EMT Part II Lab	1
MTH96	Applied Algebra II or MTH95 Intermediate Algebra or higher level math	4
		15

### Third Term

BI233	Anatomy and Physiology III with lab	4
ES171	Emergency Vehicle Operations	2
ES205	Crisis Management	3
ES268	Emergency Service Rescue	3
WR121	English Composition I	4
—	Approved program elective(s)	0-8
		16-24

**TOTAL PROGRAM CREDITS 47-55**

## Approved Program Electives

Course No.	Course Title	Credits
AH110	Medical Terminology: Clinical	3
BT102	Introduction to Supervision	3

BT111	Conflict Management	2
CG144	Introduction to Assertiveness	1
CHEM104	Introductory Chemistry I with lab and recitation	5
CJ243/SOC243	Drugs, Crime and Addiction	4
EMS160	Electrocardiogram (ECG) Interpretation	2
EMS165	Introduction to Pharmacology for Health Occupations	2
ES280	Cooperative Work Experience/Emergency Services	1-6
ES295	Health and Fitness for Emergency Services Workers	3
FRP251	Firefighter Level I <sup>3</sup>	3
FRP251L	Firefighter Level I Lab <sup>3</sup>	5
FRP261	Hazardous Materials First Responder Operations	1
FRP285	Fire Instructor I	3
HC100	Community Health Worker	6
HCI120	Introduction to the Health Care Industry	3
HPE295	Health and Fitness for Life	3
LIB127	Introduction to Academic Research	1
MTH95R	Intermediate Algebra Recitation	1
MTH105	Introduction to Contemporary Mathematics	4
MTH243	Probability and Statistics	4
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
SP111	Fundamentals of Public Speaking or SP218 Interpersonal Communications	4
WR110	Understanding English Grammar	2
WR227	Technical Writing	4
—	Any world language	4
—	Approved social science elective (see this catalog for approved list of electives)	3-4

<sup>1</sup> BI211 is a prerequisite to BI231; CHEM104 also highly recommended.

<sup>2</sup> Required for graduation.

<sup>3</sup> FRP251 taken previously for 8 credits but without a separate lab is also acceptable.

For more information contact the Emergency Services Department:

Grants Pass or Medford. . . . . 541-245-7965

Toll free in Oregon . . . . . 800-411-6508, Ext. 7965

email . . . . . emergencyservicesadvisors@rogucecc.edu

Web address . . . . . www.rogucecc.edu/emergencyservices

TTY . . . . . Oregon Telecom Relay Service, 711

## Emergency Medical Services: EMT Career Pathways 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 EMTs in hospital emergency departments and ambulance services. It is also the minimum requirement for some firefighter positions.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes ([www.bls.gov/SOC/](http://www.bls.gov/SOC/)), graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.rogucecc.edu/GainfulEmployment](http://www.rogucecc.edu/GainfulEmployment).

### 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 emergency medical service programs 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.

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 of multiple personnel on emergency scenes.

Understand and follow workplace expectations regarding attendance, safety, conduct, and professionalism.

Describe and use defensive and safe driving techniques in the operation of emergency vehicles.

Demonstrate safe work practices in a variety of specific rescue situations including rope, water, wilderness, and confined space rescue.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

This program requires an application and satisfaction of certain course admission criteria prior to enrolling in the EMT certification courses (ES131, ES132). Information is available on the Department website ([www.roguecc.edu/EmergencyServices/EMS](http://www.roguecc.edu/EmergencyServices/EMS)) 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 must meet the qualifications outlined by the Oregon Health Authority – EMS. Students are required to submit verification of certain immunizations and medical tests. Students will also be required to pass a drug screening and a criminal background investigation prior to their mandatory clinical time.

## Advanced Standing

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

### Emergency Medical Services: EMT: Career Pathways Certificate (24-29 credits)

- Entry-level Emergency Medical Technician (EMT) <sup>1</sup>

### Emergency Medical Services: Certificate of Completion (47-55 credits)

- EMT <sup>1</sup>

### Paramedicine: Associate of Applied Science (AAS) degree (103-108 credits)

- Advanced-level EMT <sup>1</sup>

### Dual Fire/ Paramedic AAS Degrees: Associate of Applied Science (AAS) degree (150 credits in three years)

- Firefighter/Paramedic <sup>1</sup>

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.roguecc.edu/CareerPathways/](http://www.roguecc.edu/CareerPathways/)

## Graduation 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.

## Prerequisites

Students are strongly encouraged to meet with an ES Department advisor prior to beginning any coursework.

Course No.	Course Title	Credits
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

**Total Prerequisite Credits** **0-12**

## Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
ES105	Introduction to Emergency Services	4
ES131	EMT Part I	4
ES131L	EMT Part I Lab	1
ES268	Emergency Service Rescue	3
		12
<b>Second Term</b>		
ES132	EMT Part II	4
ES132L	EMT Part II Lab	1
EMS170	Emergency Communication and Documentation	2
ES171	Emergency Vehicle Operations	2
—	Approved program elective(s)	3-8
		12-17

**TOTAL CREDITS** **24-29**

## Approved Pathway Electives

(3-8 credits allowed)

Course No.	Course Title	Credits
AH100	Medical Terminology	3
BI211	General Biology I	4
CJ243/SOC243	Drugs, Crime and Addiction	4
EMS160	Electrocardiogram (ECG) Interpretation	2
ES295	Health and Fitness for Emergency Service Workers	3
FRP251	Firefighter Level I <sup>1</sup>	3
FRP251L	Firefighter Level I Lab <sup>1</sup>	5
FRP261	Hazardous Materials First Responder Operations	1
HC100	Community Health Worker	6
HCI120	Introduction to the Health Care Industry	3
HPE295	Health and Fitness for Life	3
MTH60	Fundamentals of Algebra I or higher level math	4
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
SP111	Fundamentals of Public Speaking or SP218 Interpersonal Communications	4
WR115	Introduction to Expository Writing	3
WR121	English Composition I	4
—	Any world language	4
—	Approved social science elective (see this catalog for approved list of electives)	3-4

<sup>1</sup> FRP251 taken previously for 8 credits but without a separate lab is also acceptable.

For more information contact the Emergency Services Department:

Grants Pass or Medford. . . . . 541-245-7965  
Toll free in Oregon . . . . . 800-411-6508, Ext. 7965  
email . . . . . [emergencyservicesadvisors@roguecc.edu](mailto:emergencyservicesadvisors@roguecc.edu)  
Web address . . . . . [www.roguecc.edu/emergencyservices](http://www.roguecc.edu/emergencyservices)  
TTY . . . . . Oregon Telecom Relay Service, 711



# Emerging Media and Digital Arts Transfer to Southern Oregon University Associate of Science Degree

## 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.

The curriculum allows for 44 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 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 Emerging Media and Digital Arts Transfer to Southern Oregon University degree is:

Students will be prepared to transfer into Southern Oregon University's Emerging Media and Digital Arts program.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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 a minimum of 90 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH95	Intermediate Algebra or MTH96 Applied Algebra II or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
<b>Total Prerequisite Credits</b>		<b>0-11</b>

## General Education Requirements

Course No.	Course Title	Credits
ART131	Introduction to Drawing	3
COMM225	Small Group Communication and Problem-solving or SP100 Basic Communication or SP111 Fundamentals of Public Speaking or SP218 Interpersonal Communication	3-4

CIS195	Web Authoring I (HTML/CSS)	4
LIB127	Introduction to Academic Research	1
MTH105	Introduction to Contemporary Mathematics or higher level math <sup>1</sup>	4-5
WR121	English Composition I	4
WR122	English Composition II	4
—	Approved humanities electives <sup>2</sup>	6-8
—	Approved science electives with lab <sup>3</sup>	8-10
—	Approved social science electives <sup>4</sup>	9-12

## Total General Education Requirements

**46-55**

## Core Requirements

Course No.	Course Title	Credits
DDM120	Digital Graphic Design I	3
DDM125	Introduction to Digital Photography	3
DDM130	Introduction to Web Tools	3
DDM140	Electronic Publishing I (InDesign)	3
DDM150	Computer Illustration (Illustrator)	3
DDM160	Digital Imaging (Photoshop)	3
DDM180	Introduction to Digital Video (Premiere)	3
DDM190	Introduction to Animation (Animate)	3
DDM220	Digital Graphic Design II	3
DDM229	Portfolio and Professional Practices	3
—	Approved Computer Science/ Design and Digital Media electives <sup>5</sup>	14

## Total Core Credits

**44**

## TOTAL PROGRAM CREDITS

**90-99**

<sup>1</sup> Students may also take MTH111, MTH112, MTH211 and MTH212, MTH243 or MTH251. 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.

## <sup>2</sup> Approved Humanities Electives

(complete at least two courses from the following list, 6-8 credits)

Course No.	Course Title	Credits
ART204,205,206	History of Art I, II, III	4-4-4
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
IS110	Introduction to International Studies I	4
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SP115	Introduction to Intercultural Communication	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141	Fundamentals of Acting	4
WR241,242,243	Imaginative Writing I, II, III	4-4-4



### 3 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.)

Course No.	Course Title	Credits
BI100GB	Introductory Biology (non-lab course)	3
BI100SB	Biology of Human Body Systems (non-lab course)	3
BI101,102,103	Introduction to Biology I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM105R	Introductory Organic Chemistry Recitation	1
CHEM106	Introductory Biochemistry with lab	4
CHEM106R	Introductory Biochemistry Recitation	1
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
ENV111	Introduction to Environmental Science (non-lab course)	3
G100	Fundamentals of Geology (non-lab course)	3
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GEOG100	Introduction to Physical Geography (non-lab course)	3
GS104,106,107,108	Physical Science with lab	4-4-4-4
GS170	Regional Field Studies with lab	4
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

### 4 Approved Social Science Electives

(complete at least three courses from the following list, 9-12 credits)

Course No.	Course Title	Credits
ANTH110,150	Introduction to Cultural Anthropology/Archaeology	4-4
BA101	Introduction to Business	4
BA218	Personal Finance	3
CJ101/SOC244	Introduction to Criminology	4
CJ120	Introduction to the Judicial Process	4
CJ243/SOC243	Drugs, Crime and Addiction	4
COMM237	Communication and Gender	4
ECON115	Introduction to Economics	3
ECON201,202	Principles of Microeconomics/Macroeconomics	4-4
GEOG110	Introduction to Cultural and Human Geography	3
GEOG120	World Regional Geography	3
HE250,HPE295	Personal Health/Health and Fitness for Life	3-3
HST104	World Civilizations: Prehistory - Middle Ages	4
HST105	World Civilizations: Byzantium - Present	4
HST201	U.S. History through Reconstruction	4
HST202	U.S. History: Post-Reconstruction - Present	4
IS111	Introduction to International Studies II	3
PS201,202,203	American Government I, II, III	3-3-3
PSY101	Psychology of Human Relations	3
PSY119	Psychology of Personal Growth	4
PSY201,202	General Psychology I, II	4-4
PSY215	Life Span Human Development	4
PSY219	Introduction to Abnormal Psychology	4
PSY231	Human Sexuality	3
SOC204,205	Introduction to Sociology, American Society	4-4
SOC211	Social Deviance and Social Control	3
SOC213	Race and Ethnicity in the U.S.	4
SOC218	Sociology of Gender	4
SOC225	Social Problems and Solutions	4

SOC228	Environment and Society	4
SOC230	Introduction to Gerontology	4
SOC235/HST259	The Chicano/Latino Historical Experience	4

### 5 Approved Design and Digital Media Electives

(Complete 14 credits or a sufficient number of electives to meet the total degree requirements of at least 90 credits.)

Course No.	Course Title	Credits
DDM141	Electronic Publishing II	3
DDM161	Advanced Digital Imaging	4
DDM170	Motion Graphics (After Effects)	3
DDM181	Advanced Digital Video	3
DDM200	Survey of Graphic Design History	3
DDM221	Production Graphics	3
DDM225	3D Graphics I (Blender)	3
DDM230	Design Studio, or	
	DDM280 Cooperative Work Experience/Graphic Design	3
DDM235	Website Design I	4

Note: Students who have graduated from high school or completed a high school equivalency program in 1997 or after must have the following requirement for admission to a four-year Oregon university: 1) Two years of the same high school-level world language, or 2) two terms of college-level world language with a grade of "C" or better (may be first-year world language, which can be used as elective credits on the Associate of Arts Oregon Transfer degree). If students plan to complete a Bachelor of Arts (BA) degree at a four-year school, they must have a proficiency in a world language regardless of when they graduated from high school or equivalency program.

For more information contact the Computer Science Department:

Grants Pass	541- 956-7213
Medford	541-245-7527
Toll free in Oregon	800-411-6508, Ext. 7213 or Ext. 7527
email	cs@rogucecc.edu
Web address	www.rogucecc.edu/computerscience
TTY	541-956-7338 or 541-245-7587

## Engineering Transfer to Oregon Tech – Civil Associate of Science Degree

### About the Program

The Associate of Science – Civil Engineering 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 Civil Engineering – Transfer to Oregon Tech are:

Identify the broad context of engineering problems, including describing the problem conditions, identifying possible contributing factors, and generating alternative solution strategies.

Identify the fundamental elements of engineering design including associated safety, quality, schedule and cost considerations.

Employ mathematics, science, and computing techniques in a systematic and rigorous manner to support the study and solution of engineering problems.

Conduct and document laboratory experiments in the sciences and engineering, effectively communicating determined quantitative relationships using both graphs and equations.

Exhibit good teamwork skills and serve as effective members of laboratory and project teams.

Articulate and justify technical solutions to an audience through oral, written and graphical communication.



Communicate the importance of professional and ethical responsibilities of engineers and be aware of codes and other sources of guidance for professionally ethical decision making.

Draw a complete and correct free body diagram of an object.

Write and solve applicable equations of equilibrium for statically determinate objects.

Apply statics concepts to trusses, frames and machines, and calculation of internal forces.

Determine the centroid and moment of inertia for an arbitrary area.

Be prepared to transfer to Oregon Tech as a Civil Engineering student.

## Entry Requirements

Students in engineering majors are asked to work closely with Dusty Rittenbach, Science Department Chair, [jrittenbach@rogucecc.edu](mailto:jrittenbach@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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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 course-work, 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.

## Prerequisites <sup>1</sup>

Course No.	Course Title	Credits
MMTH112	Elementary Functions or higher level math placement test score	0-4
WR115	Introduction to Expository Writing or higher level composition placement test score	0-3
<b>Total Prerequisite Credits</b>		<b>0-7</b>

## First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
ENGR101	Engineering Orientation I: Careers, Skills and Computer Tools	2
MTH251	Calculus I (Differential) with lab	5
PH211	General Physics (Calculus Based) I with lab and recitation	5
WR121	English Composition I	4
		16
<b>Second Term</b>		
ENGR102	Engineering Orientation II: Careers, Skills, and Computer Tools	2
MTH252	Calculus II (Integral) with lab	5
PH212	General Physics (Calculus Based) II with lab and recitation	5
WR122	English Composition II	4
		16
<b>Third Term</b>		
ENGR103	Engineering Orientation III: Careers, Skills, and Computer Tools	2
MTH261	Linear Algebra with lab	5
PH213	General Physics (Calculus Based) III with lab and recitation	5
		12
<b>Fourth Term (Summer)</b>		
MTH254	Vector Calculus with lab	5

MTH256	Differential Equations with lab	5
		10
<b>Total First Year Credits</b>		<b>54</b>

## Second Year Required Courses

Course No.	Course Title	Credits
<b>Fifth Term</b>		
CHEM221	General Chemistry I with lab and recitation	5
ECON201	Principles of Microeconomics	4
SP111	Fundamentals of Public Speaking	4
		13
<b>Sixth Term</b>		
CHEM222	General Chemistry II with lab and recitation	5
ENGR211	Statics	3
—	Approved humanities elective <sup>2</sup>	3-4
		11-12
<b>Seventh Term</b>		
ENGR213	Strength of Materials	3
WR227	Technical Writing	4
—	Approved humanities elective <sup>2</sup>	3-4
—	Approved social science elective <sup>3</sup>	3-8
		13-19
<b>Total Second Year Credits</b>		<b>37-44</b>
<b>Total Credits</b>		<b>91-98</b>

<sup>1</sup> Prerequisite courses may have additional requirements.

## <sup>2</sup> Approved Humanities Electives

(Complete up to 8 credits. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design (Composition/Color Theory)	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature I, II, III	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature I, II, III	4-4-4
ENG253,254,255	Survey of American Literature I, II, III	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities I, II, III	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4



REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

### 3 Approved Social Science Electives

Select up to 8 credits from the following RCC prefixes: ANTH, ECON, GEOG (EXCEPT GEOG100), HST, PS, PSY, SOC or others designated as Social Science Electives by the Oregon Tech Registrar's Office.

For more information contact the Science Department:

Grants Pass or Medford	541.956.7066
Toll free in Oregon	800.411.6508, Ext. 7527
email	jrittenbach@rogucecc.edu
website	http://go.rogue.edu/departments/science
TTY	Oregon Telecom Relay Service, 711

## Engineering Transfer to Oregon Tech – Electrical Associate of Science Degree

### About the Program

The Associate of Science – Electrical Engineering 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 Electrical Engineering – Transfer to Oregon Tech are:

Identify the broad context of engineering problems, including describing the problem conditions, identifying possible contributing factors, and generating alternative solution strategies.

Identify the fundamental elements of engineering design including associated safety, quality, schedule and cost considerations.

Employ mathematics, science, and computing techniques in a systematic and rigorous manner to support the study and solution of engineering problems.

Conduct and document laboratory experiments in the sciences and engineering, effectively communicating determined quantitative relationships using both graphs and equations.

Exhibit good teamwork skills and serve as effective members of laboratory and project teams.

Articulate and justify technical solutions to an audience through oral, written and graphical communication.

Communicate the importance of professional and ethical responsibilities of engineers and be aware of codes and other sources of guidance for professionally ethical decision making.

Define voltage, current, power and energy, and how they relate with each other.

Use voltage division and current division appropriately in solving simple circuits.

Define voltage, current, power and energy for both DC and AC circuits, and how they relate with each other via sinusoids and phasors.

Be prepared to transfer to Oregon Tech as an Electrical Engineering student.

### Entry Requirements

Students in engineering majors are asked to work closely with Dusty Rittenbach, Science Department Chair, jrittenbach@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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### 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 course-work, 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.

### Prerequisites <sup>1</sup>

Course No.	Course Title	Credits
MTH112	Elementary Functions or higher level math placement test score	0-4
WR115	Introduction to Expository Writing or higher level composition placement test score	0-3
	Approved social science elective <sup>2</sup>	0-8

**Total Prerequisite Credits 0-15**

### First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
ENGR101	Engineering Orientation I: Careers, Skills and Computer Tools	2
MTH251	Calculus I (Differential) with lab	5
PH211	General Physics (Calculus Based) I with lab and recitation	5
WR121	English Composition I	4
		16

#### Second Term

ENGR102	Engineering Orientation II: Careers, Skills, and Computer Tools	2
MTH252	Calculus II (Integral) with lab	5
PH212	General Physics (Calculus Based) II with lab and recitation	5
WR122	English Composition II	4
		16

#### Third Term

ENGR103	Engineering Orientation III: Careers, Skills, and Computer Tools	2
MTH261	Linear Algebra with lab	5
PH213	General Physics (Calculus Based) III with lab and Recitation	5
		12

#### Fourth Term (Summer)

MTH254	Vector Calculus with lab	5
MTH256	Differential Equations with lab	5
		10

**Total First Year Credits 54**

### Second Year Required Courses

Course No.	Course Title	Credits
<b>Fifth Term</b>		
CHEM221	General Chemistry I with lab and recitation	5
SP111	Fundamentals of Public Speaking	4
WR227	Technical Writing	4
		13
<b>Sixth Term</b>		
CHEM222	General Chemistry II with lab and recitation	5
CS161U	Computer Science I (C++)	4
ENGR201	Electrical Fundamentals I with lab	3
		12



## Seventh Term

CS162U	Computer Science II (C++)	4
ENGR202	Electrical Fundamentals II with lab	3
MTH253	Calculus III with lab	5
—	Approved humanities elective <sup>3</sup>	3-4
		15-16

**Total Second Year Credits** 40-41

**Total Credits** 94-95

<sup>1</sup> Prerequisite courses may have additional requirements.

## <sup>2</sup> Approved Social Science Electives

Select courses from the following RCC prefixes: ANTH, ECON, GEOG (EXCEPT GEOG100), HST, PS, PSY, SOC or others designated as Social Science Electives by the Oregon Tech Registrar's Office.

## <sup>3</sup> Approved Humanities Electives

(Complete up to 4 credits. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design (Composition/Color Theory)	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature I, II, III	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature I, II, III	4-4-4
ENG253,254,255	Survey of American Literature I, II, III	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities I, II, III	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

For more information contact the Science Department:

Grants Pass or Medford. . . . . 541.956.7066

Toll free in Oregon. . . . . 800.411.6508, Ext. 7527

email. . . . . jrittenbach@rogucecc.edu

website. . . . . <http://go.rogue.edu/departments/science>

TTY. . . . . Oregon Telecom Relay Service, 711

# Engineering Transfer to Oregon Tech – Mechanical Associate of Science Degree

## About the Program

The Associate of Science – Mechanical Engineering 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 Mechanical Engineering – Transfer to Oregon Tech are:

Identify the broad context of engineering problems, including describing the problem conditions, identifying possible contributing factors, and generating alternative solution strategies.

Identify the fundamental elements of engineering design including associated safety, quality, schedule and cost considerations.

Employ mathematics, science, and computing techniques in a systematic and rigorous manner to support the study and solution of engineering problems.

Conduct and document laboratory experiments in the sciences and engineering, effectively communicating determined quantitative relationships using both graphs and equations.

Exhibit good teamwork skills and serve as effective members of laboratory and project teams.

Articulate and justify technical solutions to an audience through oral, written and graphical communication.

Communicate the importance of professional and ethical responsibilities of engineers and be aware of codes and other sources of guidance for professionally ethical decision making.

Identify and apply kinematic and dynamic equations for a particle in Cartesian, cylindrical and spherical coordinates.

Apply Newton's equations to solve problems involving rigid bodies in plane motion.

Apply methods of work-energy and impulse-momentum to describe rigid body motion.

Apply understanding of statics, calculus, physics, chemistry, and probability/statistics to analyze and design simple mechanical systems with engineering materials.

Recognize types of failure modes, material property influence, and use of factors of safety or allowable stresses/strains on design.

Be prepared to transfer to Oregon Tech as a Mechanical Engineering student.

## Entry Requirements

Students in engineering majors are asked to work closely with Dusty Rittenbach, Science Department Chair, jrittenbach@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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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 course-work, 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.



## Prerequisites <sup>1</sup>

Course No.	Course Title	Credits
MTH112	Elementary Functions or higher level math placement test score	0-4
WR115	Introduction to Expository Writing or higher level composition placement test score	0-3
_____	Approved social science elective <sup>2</sup>	0-8

**Total Prerequisite Credits** **0-15**

## First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
ENGR101	Engineering Orientation I: Careers, Skills and Computer Tools	2
MTH251	Calculus I (Differential) with lab	5
PH211	General Physics (Calculus Based) I with lab and recitation	5
WR121	English Composition I	4
		16

### Second Term

ENGR102	Engineering Orientation II: Careers, Skills, and Computer Tools	2
MTH252	Calculus II (Integral) with lab	5
PH212	General Physics (Calculus Based) II with lab and recitation	5
WR122	English Composition II	4
		16

### Third Term

ENGR103	Engineering Orientation III: Careers, Skills, and Computer Tools	2
MTH261	Linear Algebra with lab	5
PH213	General Physics (Calculus Based) III with lab and recitation	5
		12

### Fourth Term (Summer)

MTH254	Vector Calculus with lab	5
MTH256	Differential Equations with lab	5
		10

**Total First Year Credits** **54**

## Second Year Required Courses

Course No.	Course Title	Credits
<b>Fifth Term</b>		
CHEM221	General Chemistry I with lab and Recitation	5
ECON201	Principles of Microeconomics	4
SP111	Fundamentals of Public Speaking	4
		13
<b>Sixth Term</b>		
CHEM222	General Chemistry II with lab and Recitation	5
ENGR201	Electrical Fundamentals with lab	3
ENGR211	Statics	3
		11

### Seventh Term

ENGR202	Electrical Fundamentals II with lab	3
ENGR212	Dynamics	3
ENGR213	Strength of Materials	3
WR227	Technical Writing	4
_____	Approved humanities elective <sup>3</sup>	3-4
		16-17

**Total Second Year Credits** **40-41**

**Total Credits** **94-95**

<sup>1</sup> Prerequisite courses may have additional requirements.

## <sup>2</sup> Approved Social Science Electives

Select courses from the following RCC prefixes: ANTH, ECON, GEOG (EXCEPT GEOG100), HST, PS, PSY, SOC or others designated as Social Science Electives by the Oregon Tech Registrar's Office.

## <sup>3</sup> Approved Humanities Electives

(Complete 3-4 credits. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design (Composition/Color Theory)	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature I, II, III	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature I, II, III	4-4-4
ENG253,254,255	Survey of American Literature I, II, III	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities I, II, III	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

For more information contact the Science Department:

Grants Pass or Medford. . . . . 541.956.7066  
Toll free in Oregon . . . . . 800.411.6508, Ext. 7527  
email . . . . . jrittenbach@roguecc.edu  
website . . . . . http://go.rogue.edu/departments/science  
TTY . . . . . Oregon Telecom Relay Service, 711



# Engineering Transfer to Oregon Tech – Renewable Energy Associate of Science Degree

## About the Program

The Associate of Science – Renewable Energy Engineering 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 Renewable Energy Engineering – Transfer to Oregon Tech are:

Identify the broad context of engineering problems, including describing the problem conditions, identifying possible contributing factors, and generating alternative solution strategies.

Identify the fundamental elements of engineering design including associated safety, quality, schedule and cost considerations.

Employ mathematics, science, and computing techniques in a systematic and rigorous manner to support the study and solution of engineering problems.

Conduct and document laboratory experiments in the sciences and engineering, effectively communicating determined quantitative relationships using both graphs and equations.

Exhibit good teamwork skills and serve as effective members of laboratory and project teams.

Articulate and justify technical solutions to an audience through oral, written and graphical communication.

Communicate the importance of professional and ethical responsibilities of engineers and be aware of codes and other sources of guidance for professionally ethical decision making.

Draw a complete and correct free body diagram of an object.

Write and solve applicable equations of equilibrium for statically determinate objects.

Apply statics concepts to trusses, frames and machines, and calculation of internal forces.

Use voltage division and current division appropriately in solving simple circuits.

Define voltage, current, power and energy for both DC and AC circuits, and how they relate with each other via sinusoids and phasors.

Be prepared for transfer to Oregon Tech as a Renewable Energy Engineering student.

## Entry Requirements

Students in engineering majors are asked to work closely with Dusty Rittenbach, Science Department Chair, [jrittenbach@rogucecc.edu](mailto:jrittenbach@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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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 course-work, 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.

## Prerequisites <sup>1</sup>

Course No.	Course Title	Credits
MTH112	Elementary Functions or higher level math placement test score	0-4
WR115	Introduction to Expository Writing or higher level composition placement test score	0-3
_____	Approved social science elective <sup>2</sup>	0-8

**Total Prerequisite Credits 0-15**

## First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
ENGR101	Engineering Orientation I: Careers, Skills and Computer Tools	2
MTH251	Calculus I (Differential) with lab	5
PH211	General Physics (Calculus Based) I with lab and recitation	5
WR121	English Composition I	4
		16

### Second Term

ENGR102	Engineering Orientation II: Careers, Skills, and Computer Tools	2
MTH252	Calculus II (Integral) with lab	5
PH212	General Physics (Calculus Based) II with lab and recitation	5
WR122	English Composition II	4
		16

### Third Term

ENGR103	Engineering Orientation III: Careers, Skills, and Computer Tools	2
MTH261	Linear Algebra with lab	5
PH213	General Physics (Calculus Based) III with lab and recitation	5
		12

### Fourth Term (Summer)

MTH254	Vector Calculus with lab	5
MTH256	Differential Equations with lab	5
		10

**Total First Year Credits 54**

## Second Year Required Courses

Course No.	Course Title	Credits
<b>Fifth Term</b>		
CHEM221	General Chemistry I with lab and recitation	5
SP111	Fundamentals of Public Speaking	4
WR227	Technical Writing	4
		13

### Sixth Term

CHEM222	General Chemistry II with lab and recitation	5
ENGR201	Electrical Fundamentals I with lab	3
ENGR211	Statics	3
		11

### Seventh Term

ECON201	Principles of Microeconomics	4
ENGR202	Electrical Fundamentals II with lab	3
_____	Approved humanities elective <sup>3</sup>	6-8
		13-15

**Total Second Year Credits 37-39**

**Total Credits 91-93**

<sup>1</sup> Prerequisite courses may have additional requirements.

## <sup>2</sup> Approved Social Science Electives

Select courses from the following RCC prefixes: ANTH, ECON, GEOG (EXCEPT GEOG100), HST, PS, PSY, SOC or others designated as Social Science Electives by the Oregon Tech Registrar's Office.



### 3 Approved Humanities Electives

(Complete up to 8 credits. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design (Composition/Color Theory)	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature I, II, III	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature I, II, III	4-4-4
ENG253,254,255	Survey of American Literature I, II, III	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities I, II, III	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

For more information contact the Science Department:

Grants Pass or Medford . . . . . 541.956.7066  
Toll free in Oregon . . . . . 800.411.6508, Ext. 7527  
email . . . . . jrittenbach@roguecc.edu  
website . . . . . <http://go.rogue.edu/departments/science>  
TTY . . . . . Oregon Telecom Relay Service, 711

## English/Literature Interest Associate of Arts Oregon Transfer Degree

A total of 90 credits are required to complete the Associate of Arts Oregon Transfer (AAOT) degree and 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 graduation guide for full degree requirements. It is recommended that a student also consult with the transfer college of choice regarding specific prerequisites since requirements for an English/literature major vary at each university.

#### Term 1

Course No.	Course Title	Credits	AAOT Category
CG100	College Success and Survival <sup>1</sup>	2	Elective
ENG204	Survey of English Literature: Medieval to Renaissance	4	Humanities
LIB127	Introduction to Academic Research <sup>1</sup>	1	Elective
WR121	English Composition I	4	Writing

#### Term 2

Course No.	Course Title	Credits	AAOT Category
ENG205	Survey of English Literature: 18th Century to Romantic	4	Humanities
MTH243	Probability and Statistics	4	Mathematics
SP111	Fundamentals of Public Speaking	4	Communication
WR122	English Composition II	4	Writing

#### Term 3

Course No.	Course Title	Credits	AAOT Category
ENG206	Survey of English Literature: Victorian to Modern	4	Humanities
GS104	Physical Science w/lab	4	Science
HST104	World Civilizations: Prehistory – Middle Ages	4	Social Science
PHL101	Philosophical Problems	4	Humanities

#### Term 4

Course No.	Course Title	Credits	AAOT Category
GS107	Physical Science: Astronomy w/lab	4	Science
HST105	World Civilizations: Byzantium – Present	4	Social Science
PHL102	Ethics	4	Humanities
SPAN101	First Year Spanish I <sup>1</sup>	4	Elective

#### Term 5

Course No.	Course Title	Credits	AAOT Category
GS108	Physical Science Oceanography	4	Science
PHL103	Critical Reasoning	4	Humanities
PSY101	General Psychology I	4	Humanities
SPAN102	First Year Spanish II <sup>1</sup>	4	Elective

#### Term 6

Course No.	Course Title	Credits	AAOT Category
HE250	Personal Health	3	Fitness/Health
NFM225	Nutrition	4	Science, non-lab
PSY202	General Psychology II	4	Humanities
SPAN103	First Year Spanish III <sup>1</sup>	4	Elective

<sup>1</sup> Two years of a college-level world language is required for a Bachelor of Arts degree.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	<a href="http://www.eou.edu">www.eou.edu</a>
Oregon State University	<a href="http://www.oregonstate.edu">www.oregonstate.edu</a>
Portland State University	<a href="http://www.pdx.edu">www.pdx.edu</a>
Southern Oregon University	<a href="http://www.sou.edu">www.sou.edu</a>
University of Oregon	<a href="http://www.uoregon.edu">www.uoregon.edu</a>
Western Oregon University	<a href="http://www.wou.edu">www.wou.edu</a>

## Environmental Sciences Associate of Arts Oregon Transfer Degree

A total of 90 credits are required to complete the Associate of Arts Oregon Transfer (AAOT) degree and 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 graduation guide for full degree requirements. It is recommended that a student also consult with the transfer college of choice regarding specific prerequisites since requirements for an environmental sciences/forestry major vary at each university.

Course No.	Course Title	Credits	AAOT Category
BI211	General Biology I with lab	4	Science



BI212	General Biology II with lab	4	Science
BI213	General Biology III with lab	4	Science
CHEM221	General Chemistry I with lab and Recitation	5	Science
CHEM222	General Chemistry II with lab and Recitation	5	Science
CHEM223	General Chemistry III with lab and Recitation	5	Science
ECON201	Principles of Microeconomics	4	Social Science
MTH111	College Algebra	4	Math
MTH112	Elementary Functions	4	Math
MTH243	Probability & Statistics	4	Math
MTH251	Calculus I	5	Math
MTH252	Calculus II	5	Math
PH201	General Physics I w/Lab and Recitation	5	Science
PH202	General Physics II w/Lab and Recitation	5	Science
SP111	Fundamentals of Public Speaking	4	Humanities
WR121	English Composition I	4	Writing
WR122	English Composition II	4	Writing
WR227	Technical Writing	4	Elective

It is recommended that students plan to transfer to the four-year school after completing the first year of courses at RCC. Academic courses required for environmental sciences are offered only at the four-year institutions.

Oregon public universities offering degrees in this subject:

Oregon Institute of Technology	<a href="http://www.oit.edu">www.oit.edu</a>
Oregon State University	<a href="http://www.oregonstate.edu">www.oregonstate.edu</a>
Portland State University	<a href="http://www.pdx.edu">www.pdx.edu</a>
University of Oregon	<a href="http://www.uoregon.edu">www.uoregon.edu</a>

## Family Support Services Associate of Applied Science Degree

### 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 family support services programs are:

Demonstrate understanding of children's characteristics and needs.

Know about, understand, and value the importance and complex characteristics of children's families and communities.

Support and engage families and communities through respectful, reciprocal relationships.

Establish rapport and a supportive alliance with families through the demonstration of empathy, genuineness, congruence, and unconditional positive regard.

Involve families and communities in their children's development and learning.

Understand positive relationships and supportive interactions as the foundation of their work with children and families.

Exhibit sensitivity and insight into the wide variety of problems in living experienced by individuals and groups in contemporary society.

Demonstrate clinical skills of screening, assessment, treatment planning, termination and referral, including documentation and record management.

Apply principles of ethical decision making and practice ethical behavior in relation to self and others within the helping relationship.

Integrate knowledgeable, reflective, and critical perspectives on working with families.

Function effectively as a member of a team in providing services, designing programs, and working collaboratively among agencies and organizations for the benefit of families and the community.

Engage in continuous, collaborative learning to inform practice as well as pro-active self-care.

Engage in informed advocacy and education on behalf of children and families.

Exhibit interpersonal skills and be able to facilitate groups as well as work with individuals one-on-one.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Some of these sites may require a background check in order for a student to participate. Future employment serving children and families will require a background check. Students may wish to consider going through a background check process to be ready for potential observation, practicum, and employment experiences – check with an Early Childhood and Elementary Education advisor for additional information.

### 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.

### Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
PSY101	Psychology of Human Relations <sup>1</sup>	3
WR115	Introduction to Expository Writing or BT113 Business English I or designated placement test score	0-4
<b>Total Prerequisite Credits</b>		<b>3-11</b>

### First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
ECE125	Early Childhood Development	3
LIB127	Introduction to Academic Research, or LIB101 Introduction to Information Literacy	1
PSY201	General Psychology I	4
SOC243/CJ243	Drugs, Crime and Addiction	4
WR121	English Composition I or BT114 Business English II	4
		16



## Second Term

HE250	Personal Health or HPE295 Health and Fitness for Life	3
HS155	Interviewing Theory and Techniques	4
MTH63	Applied Algebra I or BT160 Business Math I or higher level math or MTH60 Fundamentals of Algebra I	4
PSY202	General Psychology II	<u>4</u>
		15

## Third Term

ECE151	Guiding Children in Group Settings	3
ECE242	Parent Education and Family Support	3
ECE275	Anti-bias Education or SOC213 Race and Ethnicity in America	3-4
HS158	Trauma-informed Care: Theory and Practice	3
PSY215	Lifespan Human Development	<u>4</u>
		16-17

**Total First Year Credits** **47-48**

## Second Year Required Courses

**Course No.**      **Course Title**      **Credits**

### Fourth Term

ECE245	Promoting Social/Emotional Development of Young Children	3
ECE258	Early Childhood Home Visitation	3
HDFS260	Child Abuse and Neglect	3
HS201	Family Dynamics	3
HS210	Motivational Interviewing	3
HS261	Human Services Practicum and Seminar	<u>3</u>
		18

### Fifth Term

ECE265	Children at Risk	3
HS175	Ethics for Counselors	1
HS260	Group Counseling	4
HS261	Human Services Practicum and Seminar	3
HS266	Crisis Intervention Strategies	3
—	Approved program elective	<u>0-4</u>
		14-18

### Sixth Term

HC100	Community Health Worker	6
HS261	Human Services Practicum and Seminar	4
SP111	Fundamentals of Public Speaking or SP115 Intercultural Communication or SP218 Interpersonal Communication	4
—	Approved program elective	<u>0-4</u>
		14-18

**Total Second Year Credits** **46-54**

**TOTAL PROGRAM CREDITS** **93-102**

## Approved Program Electives

Course No.	Course Title	Credits
ECE161	Infant/Toddler Development	3
ECE163	Preschool/Primary Development	3
ECE243	Promoting Child Health and Physical Development	3
ECE246	Child, Family and Community	3
ECE248	Children with Disabilities and Their Families	3
ECE266	Spanish for Early Childhood/Elementary Professionals	3
PHL101	Philosophical Problems	4
PHL102	Ethics	4
PHL103	Critical Reasoning	4

PSY219	Introduction to Abnormal Psychology	4
PSY228	Introduction to Positive Psychology	4
PSY231	Human Sexuality	3
SOC204	Introduction to Sociology	4
SOC205	American Society	4
SOC218	Sociology of Gender	4
SOC225	Social Problems and Solutions	4
SOC235/HST259	The Chicano/Latino Historical Experience	4
SPAN101,102,103	First Year Spanish I, II, III	4-4-4
FR101,102,103	First Year French I, II, III	4-4-4
WR110	Understanding English Grammar	2

<sup>1</sup> Required for graduation.

For more information contact the Early Childhood and Elementary Education Department:

Grants Pass . . . . . 541-956-7066  
Medford . . . . . 541-245-7504  
Toll free in Oregon . . . . . 800-411-6508, Ext. 7006 or Ext. 7504  
email . . . . . [eccee@roguecc.edu](mailto:eccee@roguecc.edu)  
Web address . . . . . [www.roguecc.edu/eccee](http://www.roguecc.edu/eccee)  
TTY . . . . . Oregon Telecom Relay Service, 711

## Family Support Services Career Pathways 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 family support service programs are:

Demonstrate understanding of children's characteristics and needs.

Know about, understand, and value the importance and complex characteristics of children's families and communities.

Support and engage families and communities through respectful, reciprocal relationships.

Establish rapport and a supportive alliance with families through the demonstration of empathy, genuineness, congruence, and unconditional positive regard.

Involve families and communities in their children's development and learning.

Understand positive relationships and supportive interactions as the foundation of their work with children and families.

Exhibit sensitivity and insight into the wide variety of problems in living experienced by individuals and groups in contemporary society.

Demonstrate clinical skills of screening, assessment, treatment planning, termination and referral, including documentation and record management.

Apply principles of ethical decision making and practice ethical behavior in relation to self and others within the helping relationship.



Integrate knowledgeable, reflective, and critical perspectives on working with families.  
 Function effectively as a member of a team in providing services, designing programs, and working collaboratively among agencies and organizations for the benefit of families and the community.  
 Engage in continuous, collaborative learning to inform practice as well as pro-active self-care.  
 Engage in informed advocacy and education on behalf of children and families.  
 Exhibit interpersonal skills and be able to facilitate groups as well as work with individuals one-on-one.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Some of these sites may require a background check in order for a student to participate. Future employment serving children and families will require a background check. Students may wish to consider going through a background check process to be ready for potential observation, practicum, and employment experiences – check with an Early Childhood and Elementary Education advisor for additional information.

## 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.

### Career Pathways Certificate (CPC) — Family Support Services (30-31 credits)

- Social and Human Services Assistant <sup>1</sup>

### Certificate of Completion (CC) — Family Support Services (53-55 credits)

- Family Advocate <sup>1</sup>
- Juvenile Advocate <sup>1</sup>
- Domestic Violence Advocate <sup>1</sup>

### Associate of Applied Science (AAS) — Family Support Services (93-102 credits)

- Community Health Worker <sup>1</sup>
- Family Support Specialist <sup>1</sup>
- Social Work Outreach – Child, School, Family <sup>1</sup>

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.roguecc.edu/CareerPathways/](http://www.roguecc.edu/CareerPathways/)

## 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
PSY101	Psychology of Human Relations	3
WR115	Introduction to Expository Writing or	

BT113 Business English I or designated placement test score 0-4

## Total Prerequisite Credits

3-11

## Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
ECE125	Early Childhood Development	3
PSY201	General Psychology I	4
		7
<b>Second Term</b>		
HS155	Interviewing Theory and Techniques	4
PSY202	General Psychology II	4
		8
<b>Third Term</b>		
ECE242	Parent Education and Family Support	3
ECE275	Anti-bias Education or SOC213 Race and Ethnicity in America	3-4
HS158	Trauma-informed Care: Theory and Practice	2
		9-10
<b>Fourth Term</b>		
HDFS260	Child Abuse and Neglect	3
HS201	Family Dynamics	2
		6

## Total Program Credits

30-31

For more information contact the Early Childhood and Elementary Education Department:

Grants Pass ..... 541-956-7066  
 Medford ..... 541-245-7504  
 Toll free in Oregon ..... 800-411-6508, Ext. 7066 or Ext. 7504  
 email ..... [ecce@roguecc.edu](mailto:ecce@roguecc.edu)  
 Web address ..... [www.roguecc.edu/ecce](http://www.roguecc.edu/ecce)  
 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 family support service programs are:

Demonstrate understanding of children's characteristics and needs.

Know about, understand, and value the importance and complex characteristics of children's families and communities.



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Involve families and communities in their children's development and learning.

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Exhibit sensitivity and insight into the wide variety of problems in living experienced by individuals and groups in contemporary society.

Demonstrate clinical skills of screening, assessment, treatment planning, termination and referral, including documentation and record management.

Apply principles of ethical decision making and practice ethical behavior in relation to self and others within the helping relationship.

Integrate knowledgeable, reflective, and critical perspectives on working with families.

Function effectively as a member of a team in providing services, designing programs, and working collaboratively among agencies and organizations for the benefit of families and the community.

Engage in continuous, collaborative learning to inform practice as well as pro-active self-care.

Engage in informed advocacy and education on behalf of children and families.

Exhibit interpersonal skills and be able to facilitate groups as well as work with individuals one-on-one.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Some of these sites may require a background check in order for a student to participate. Future employment serving children and families will require a background check. Students may wish to consider going through a background check process to be ready for potential observation, practicum, and employment experiences – check with an Early Childhood and Elementary Education advisor for additional information.

## 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS ____	Approved 3-4 credit Computer Science of Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
MTH20	Pre-algebra or designated placement test score	0-4
PSY101	Psychology of Human Relations	3
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition class <sup>1</sup>	3-4

**Total Prerequisite Credits** **6-15**  
**126**

## Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
ECE125	Early Childhood Development	3
ECE258	Early Childhood Home Visitation	3
PSY201	General Psychology I	4
SOC243/CJ243	Drugs, Crime and Addiction	4
		14
<b>Second Term</b>		
ECE265	Children at Risk	3
HS155	Interviewing Theory and Techniques	4
MTH63	Applied Algebra I or BT160 Business Math or higher level math or MTH60 Fundamentals of Algebra I	4
PSY202	General Psychology II	4
		15
<b>Third Term</b>		
ECE151	Guiding Children in Group Settings	3
ECE242	Parent Education and Family Support	3
ECE275	Anti-bias Education or SOC213 Race and Ethnicity in America	3-4
HS158	Trauma-informed Care: Theory and Practice	3
		12-13
<b>Fourth Term</b>		
HDFS260	Child Abuse and Neglect	3
HE250	Personal Health or HPE295 Health and Fitness for Life	3
HS201	Family Dynamics	3
	Approved program elective	3-4
		12-13

**Total Program Credits** **53-55**

## Approved Program Electives

(3-4 credits required)

ECE161	Infant/Toddler Development	3
ECE163	Preschool/Primary Development	3
ECE246	Child, Family, and Community	3
HS261C	Human Services Practicum and Seminar	3
PSY215	Life Span Human Development	4
PSY219	Introduction to Abnormal Psychology	4
PSY228	Introduction to Positive Psychology	4
PSY231	Human Sexuality	3
SOC225	Social Problems	4
SOC235/HST259	The Chicano/Latino Historical Experience	4

<sup>1</sup> Required for graduation.

For more information contact the Early Childhood and Elementary Education Department:

Grants Pass . . . . . 541-956-7066  
Medford . . . . . 541-245-7504  
Toll free in Oregon . . . . . 800-411-6508, Ext. 7006 or Ext. 7504  
email . . . . . [ecce@roguecc.edu](mailto:ecce@roguecc.edu)  
Web address . . . . . [www.roguecc.edu/ecce](http://www.roguecc.edu/ecce)  
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## Fire and Life Safety Certificate of Completion

### About the Program

The Fire and Life Safety three-term certificate program is designed to provide basic skills and work experience for those entering the profession. It provides courses aimed at upgrading the skills of professional firefighters and fire prevention officers. Knowledge of fire prevention, building construction, related codes and laws, public education, public relations, and fire investigation are some of the areas addressed.

The program is coordinated in conjunction with the Fire Science Associate of Applied Science (AAS) degree. Courses are either in the core of the AAS degree or chosen from the approved elective list. Coursework is accredited by the Oregon Department of Public Safety Standards and Training.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes ([www.bls.gov/SOC/](http://www.bls.gov/SOC/)), graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information, visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

### 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 fire science programs 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.

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 of multiple personnel on emergency scenes.

Understand and follow workplace expectations regarding attendance, safety, conduct, and professionalism.

Describe and use defensive and safe driving techniques and the operation of emergency vehicles and fire pumps.

Demonstrate safe work practices in a variety of specific rescue situations including rope, water, wilderness, and confined space rescue.

Demonstrate the ability to conduct fire and life safety inspections and have an understanding of fire prevention principles.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

The Fire Science program advisor will work with each student to design an individualized sequence of instruction.

### 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 program coordinator before being accepted toward core requirements.

### Graduation Requirements

Students must complete all courses in this program with a "C" or better grade 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.

### Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
FRP251	Firefighter Level I <sup>2</sup>	3
FRP251L	Firefighter Level I Lab <sup>2</sup>	5
MTH20	Pre-algebra or designated placement test score	4
WR115	Introduction to Expository Writing or designated placement test score	0-3
<b>Total Prerequisite Credits</b>		<b>16-19</b>

### Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
FRP242	Introduction to Codes and Ordinances	3
FRP256	Fire Behavior and Combustion	3
FRP264	Building Construction for Fire Protection	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
WR121	English Composition I	4
		17
<b>Second Term</b>		
FRP241	Fire Prevention Inspections	3
FRP261	Hazardous Materials First Responder	1
FRP262	Fundamentals of Fire Prevention	3
FRP272	Fixed Systems and Extinguishers	3
SP111	Fundamentals of Public Speaking or SP218 Interpersonal Communication	4
		14
<b>Third Term</b>		
FRP199	Workshop: Selected Topics	3
FRP238	Public Education, Relations and Information	3
FRP243	Advanced Codes and Ordinances	3
FRP273	Fire Investigation	3
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
		15
<b>TOTAL PROGRAM CREDITS</b>		<b>46</b>

<sup>1</sup> Required for graduation.

<sup>2</sup> FRP251 taken previously for 8 credits but without a separate lab is also acceptable.

For more information contact the Fire Science program:

Grants Pass or Medford . . . . . 541-245-7965  
Toll free in Oregon . . . . . 800-411-6508, Ext. 7965  
Web address . . . . . [www.roguecc.edu/emergencyservices](http://www.roguecc.edu/emergencyservices)  
email . . . . . [emergencyservicesadvisors@roguecc.edu](mailto:emergencyservicesadvisors@roguecc.edu)  
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## Fire Officer Certificate of Completion

### About the Program

The Fire Officer four-term certificate program is designed to provide advanced skills and work experience for firefighters aspiring to advance in the profession. It provides courses aimed at upgrading the skills of professional firefighters and preparing personnel for additional job responsibilities. Courses are either in the core of the AAS degree or chosen from the approved elective list. Coursework is accredited by the Oregon Department of Public Safety Standards and Training and meets National Fire Protection Association (NFPA) requirements (NFPA Fire Officer I and II).



The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes ([www.bls.gov/SOC](http://www.bls.gov/SOC)), graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

## 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 fire science programs 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.

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 of multiple personnel on emergency scenes.

Understand and follow workplace expectations regarding attendance, safety, conduct, and professionalism.

Describe and use defensive and safe driving techniques and the operation of emergency vehicles and fire pumps.

Demonstrate safe work practices in a variety of specific rescue situations including rope, water, wilderness, and confined space rescue.

Demonstrate the ability to conduct fire and life safety inspections and have an understanding of fire prevention principles.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

The Fire Science program advisor will work with each student to design an individualized sequence of instruction.

## Advanced Standing

Coursework from approved 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 program coordinator 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 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years <sup>1</sup>	0-4
FRP251	Firefighter Level I 2	3
FRP251L	Firefighter Level I Lab 2	5
MTH20	Pre-algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
<b>Total Prerequisite Credits</b>		<b>8-19</b>

## Required Core Courses

Course No.	Course Title	Credits
<b>First Term</b>		
FRP199	Workshop: Selected Topics	3
FRP256	Fire Behavior and Combustion	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
WR121	English Composition I	4
		14
<b>Second Term</b>		
FRP233	Firefighter Safety and Survival	3
FRP249	Fire Service Leadership	3
FRP285	Fire Instructor I	3
SP111	Fundamentals of Public Speaking or SP218 Interpersonal Communication	4
		13
<b>Third Term</b>		
FRP238	Public Education, Relations and Information	3
FRP273	Fire Investigation	3
FRP274	Firefighting Strategy and Tactics	3
PS203	United States Government III	3
		12
<b>Fourth Term</b>		
FRP199	Workshop: Selected Topics	2
FRP242	Introduction to Codes and Related Ordinances	3
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
BA214	Business Communications or WR227 Technical Writing	4
		12
<b>TOTAL PROGRAM CREDITS</b>		<b>51</b>

<sup>1</sup> Required for graduation.

<sup>2</sup> FRP251 taken previously for 8 credits but without a separate lab is also acceptable.

For more information contact the Fire Science program:

Grants Pass or Medford . . . . . 541-245-7965

Toll free in Oregon . . . . . 800-411-6508, Ext. 7965

Web address . . . . . [www.roguecc.edu/emergencyservices](http://www.roguecc.edu/emergencyservices)

email . . . . . [emergencyservicesadvisors@roguecc.edu](mailto:emergencyservicesadvisors@roguecc.edu)

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## Fire Science

### Associate of Applied Science Degree

## 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.

## 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 fire science programs 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.

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 of multiple personnel on emergency scenes.

Understand and follow workplace expectations regarding attendance, safety, conduct, and professionalism.

Describe and use defensive and safe driving techniques and the operation of emergency vehicles and fire pumps.

Demonstrate safe work practices in a variety of specific rescue situations including rope, water, wilderness, and confined space rescue.

Demonstrate the ability to conduct fire and life safety inspections and have an understanding of fire prevention principles.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

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 EMT course. Students must be a high school graduate or have a GED or equivalent for certification. In addition, students must meet the qualifications outlined by the Oregon Health Authority – EMS. Students are required to submit verification of certain immunizations and medical tests. Students will also be required to pass a drug screen and a criminal background investigation prior to their mandatory clinical time.

## 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
MTH20	Pre-algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
<b>Total Prerequisite Credits</b>		<b>0-11</b>

## First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
ES105	Introduction to Emergency Services	4
FRP251	Firefighter Level I <sup>2</sup>	3
FRP251L	Firefighter Level I Lab <sup>2</sup>	5
FRP256	Fire Behavior and Combustion	3
FRP261	Hazardous Materials First Responder Operations	1
		16

## Second Term

ES131	Emergency Services Technician Part I	4
ES131L	Emergency Services Technician Part I Lab	1
FRP233	Firefighter Safety and Survival	3
FRP252	Firefighter Level II	4
FRP262	Fundamentals of Fire Prevention	3
		15

## Third Term

ES132	EMT Part II	4
ES132L	EMT Part II Lab	1
ES205	Crisis Management	3
LIB127	Introduction to Academic Research	1
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
SP111	Fundamentals of Public Speaking or SP218 Interpersonal Communication	4
		17

## Total First Year Credits

**48**

## Second Year Required Courses

Course No.	Course Title	Credits
<b>Fourth Term</b>		
ES171	Emergency Vehicle Operations	2
ES268	Emergency Service Rescue	3
ES295	Health and Fitness for Emergency Service Workers or HPE295 Health and Fitness for Life	3
FRP242	Introduction to Codes and Ordinances	3
WR121	English Composition I	4
—	Approved program elective <sup>3</sup>	0-3
		15-18

## Fifth Term

FRP249	Fire Service Leadership	3
FRP258	Pumper Operator	3
FRP272	Fixed Systems and Extinguishers	3
FRP273	Fire Investigation	3
—	Approved program elective <sup>3</sup>	0-3
		12-15

## Sixth Term

ES280	Cooperative Work Experience/Fire Science	3
FRP259	Water Supply Operations	3
FRP264	Building Construction for Fire Protection	3
FRP274	Firefighting Strategy and Tactics	3
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
—	Approved program elective <sup>3</sup>	0-3
		15-18

## Total Second Year Credits

**42-51**

## TOTAL PROGRAM CREDITS

**93-99**

## Approved Program Electives

(3-9 credits required)

Course No.	Course Title	Credits
BA214	Business Communications	4
FRP199	Workshop: Selected Topic	1-3
FRP211	Hiring Practices in the Fire Service	3
FRP238	Public Education, Relations and Information	3
FRP241	Fire Prevention Inspections	3
FRP243	Introduction to Codes and Ordinances	3
FRP285	Fire Instructor I	3



PS203	United States Government III	3
WR227	Technical Writing	4

<sup>1</sup> Required for graduation.

<sup>2</sup> FRP251 taken previously for 8 credits but without a separate lab is also acceptable.

<sup>3</sup> A minimum of 3 total elective credits are required.

For more information contact the Fire Science program:

Grants Pass or Medford	541-245-7965
Toll free in Oregon	800-411-6508, Ext. 7965
Web address	www.roguecc.edu/emergencyservices
email	emergencyservicesadvisors@roguecc.edu
TTY	Oregon Telecom Relay Service, 711

## Fire Science: Firefighter Career Pathways 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.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes ([www.bls.gov/SOC](http://www.bls.gov/SOC)), graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

### 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 fire science programs 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.

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 of multiple personnel on emergency scenes.

Understand and follow workplace expectations regarding attendance, safety, conduct, and professionalism.

Describe and use defensive and safe driving techniques and the operation of emergency vehicles and fire pumps.

Demonstrate safe work practices in a variety of specific rescue situations including rope, water, wilderness, and confined space rescue.

Demonstrate the ability to conduct fire and life safety inspections and have an understanding of fire prevention principles.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

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 EMT course. Students must be a high school graduate or have a GED or equivalent for certification. In addition, students must meet the qualifications outlined by the Oregon Health Authority – EMS. Students are required to submit verification of certain immunizations and medical tests. Students will also be required to pass a drug screen and a criminal background investigation prior to their mandatory clinical time.

### 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.

#### Fire Science: Firefighter: Career Pathways Certificate (36 credits)

- Entry-level structural firefighter <sup>1</sup>
- Entry-level wildland (forest) firefighter <sup>1</sup>

#### Fire Science: Associate of Applied Science (AAS) degree (93-99 credits)

- Structural firefighter <sup>1</sup>

#### Fire Officer: Certificate of Completion (51 credits)

- Advanced-level structural firefighter officer <sup>1</sup>
- Advanced-level wildland (forest) firefighter officer <sup>1</sup>

#### Fire and Life Safety: Certificate of Completion (46 credits)

- Fire inspectors and investigators <sup>1</sup>

#### Dual Fire/ Paramedic: Associate of Applied Science (AAS) degree (150 credits in three years)

- Firefighter/paramedic <sup>1</sup>

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.roguecc.edu/CareerPathways/](http://www.roguecc.edu/CareerPathways/)

### Graduation 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.

### Prerequisites

Course No.	Course Title	Credits
MMTH20	Pre-algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
<b>Total Prerequisite Credits</b>		<b>0-7</b>

### Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
FRP251	Firefighter Level I 1	3
FRP251L	Firefighter Level I Lab 1	5
FRP256	Fire Behavior and Combustion	3
FRP261	Hazardous Materials First Responder Operations	1
		12
<b>Second Term</b>		
ES131	EMT Part I	4
ES131L	EMT Part I Lab	1
FRP233	Firefighter Safety and Survival	3
FRP252	Firefighter Level II	4
		12



### Third Term

ES105	Introduction to Emergency Services	4
ES132	EMT Part II	4
ES132L	EMT Part II Lab	1
ES295	Health and Fitness for Emergency Services	3
		12
<b>TOTAL PROGRAM CREDITS</b>		<b>36</b>

<sup>1</sup> FRP251 taken previously for 8 credits but without a separate lab is also acceptable.

For more information contact the Emergency Services Department:

Grants Pass or Medford ..... 541-245-7965  
Toll free in Oregon ..... 800-411-6508, Ext. 7965  
Web address ..... [www.roguecc.edu/emergencyservices](http://www.roguecc.edu/emergencyservices)  
email ..... [emergencyservicesadvisors@roguecc.edu](mailto:emergencyservicesadvisors@roguecc.edu)  
TTY ..... Oregon Telecom Relay Service, 711

## Geology Interest Associate of General Studies Degree

A total of 90 credits are required to complete the Associate of General Studies (AGS) degree. 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 graduation guide 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 geology major vary at each university.

Course No.	Course Title	Credits	AAOT Category
CHEM221	General Chemistry I	5	Science
CHEM222	General Chemistry II	5	Science
CHEM223	General Chemistry III	5	Science
G101	Introduction to Geology I	4	Science
G102	Introduction to Geology II	4	Science
G103	Introduction to Geology III	4	Science
MTH111	College Algebra	4	Math
MTH112	Elementary Functions	4	Math
MTH251	Calculus I	5	Math
MTH252	Calculus II	5	Math
MTH253	Calculus III	5	Math
PH211	General Physics I (Calculus Based)	5	Science
PH212	General Physics II (Calculus Based)	5	Science
PH213	General Physics III (Calculus Based)	5	Science
WR227	Technical Writing	4	Writing

Note: Four courses required in the Science/Math category. Additional courses would count as electives.

Oregon public universities offering degrees in this subject:

Oregon State University	<a href="http://www.oregonstate.edu">www.oregonstate.edu</a>
Portland State University	<a href="http://www.pdx.edu">www.pdx.edu</a>
University of Oregon	<a href="http://www.uoregon.edu">www.uoregon.edu</a>

## Health Informatics - Transfer to Oregon Tech Associate of Science Degree

### 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 48 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 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 Health Informatics - Transfer to Oregon Tech degree is:

Students will be prepared to transfer into Oregon Tech's Information Technology/Health Informatics program.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### 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.

### Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH95	Intermediate Algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3

**Total Prerequisite Credits: 0-11**

### General Education Requirements

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
BI102	Introduction to Biology II with lab	4
ECON201	Principles of Microeconomics	4
ECON202	Principles of Macroeconomics	4
LIB127	Introduction to Academic Research	1
MTH111	College Algebra	4
MTH243	Probability and Statistics with lab	4
MTH244	Inferential Statistics	4
PSY202	General Psychology II	4
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I	4
WR122	English Composition II	4
WR227	Technical Writing	4
	Approved humanities electives <sup>1</sup>	6-8

**Total General Education Requirements 54-56**

### Core Requirements

Course No.	Course Title	Credits
BA206	Management Fundamentals	3
BA211	Financial Accounting I	4
BA212	Financial Accounting II	4
BA213	Managerial Accounting	4



BA223	Principles of Marketing	3
CIS125DB	Data Base Management Systems	3
CIS125SS	Spreadsheet Applications or BA285 Advanced Business Applications: Excel	4
CIS140	Operating Systems	4
CIS179	Introduction to Networks	4
CIS227	PC Hardware Fundamentals and Repair	5
CS133C#	Programming Fundamentals Using C#	4
CS275	Data Base Development I	4
HCI255	Introduction to Health Care Informatics	3

**Total Core Credits 49**

**TOTAL PROGRAM CREDITS 103-105**

## 1 Approved 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.)

Course No.	Course Title	Credits
ART115,116*	Basic Design (Composition/Color Theory)	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

For more information contact the Computer Science Department:

Grants Pass	541-956-7213
Medford	541-245-7527
Toll free in Oregon	800-411-6508, Ext. 7213 or Ext. 7527
email	cs@roguecc.edu
Web address	www.roguecc.edu/cs
TTY	Oregon Telecom Relay Service, 711

## Health/Exercise Science/ Physical Education Interest Associate of Arts Oregon Transfer Degree

A total of 90 credits are required to complete the Associate of Arts Oregon Transfer (AAOT) degree and 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 graduation guide 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 health/exercise science/P.E. major vary at each university.

Course No.	Course Title	Credits	AAOT Category
BI211	General Biology I with lab	4	Science
BI212	General Biology II with lab	4	Science
BI231	Anatomy and Physiology I with lab	4	Science
BI232	Anatomy and Physiology II with lab	4	Science
BI233	Anatomy and Physiology III with lab	4	Science
HE250	Personal Health	3	Health/PE
HE253	Wilderness First Aid	3	Health/PE
HE259	Care and Prevention of Athletic Injury	3	Health/PE
HPE295	Health and Fitness for Life	3	Health/PE
PE185	Activity courses	6	Health/PE
MTH243	Probability and Statistics	4	Math
NFM225	Nutrition	4	Science

Note: Four courses required in the science/math category. Additional courses would count as electives. See specific university requirements for Social Science and Humanities transfer courses.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	www.eou.edu
Oregon State University	www.oregonstate.edu
Portland State University	www.pdx.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

## Health and Physical Education Transfer to Southern Oregon University Associate of Science Degree

### 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 physical education. 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 Physical Education Transfer



to Southern Oregon University degree are:

Document a personal knowledge of demographic health changes and trends in chronic and acute diseases in the U.S. over the last 100 years.

Describe the correlations between nutrition, stress, exercise, healthy living and the human body.

Describe the connections between emotional well-being and physical wellness.

Demonstrate proficient understanding of rules and etiquette for physical activities to encourage lifelong physical engagement in the wellness activity.

Exhibit improvement in skills or body mechanics, and model correct functional movement appropriate to activity to encourage lifelong enjoyment, prevent injury, and respond to emergency situations.

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. In addition, students may also be required to enroll in classes that would increase their employability and success.

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 3 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.

Prerequisites

Course No.	Course Title	Credits
CCS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH95	Intermediate Algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
Total Prerequisite Credits		0-11

General Education Requirements

Course No.	Course Title	Credits
BI211	General Biology I with lab	4
BI212	General Biology II with lab (highly recommended) or any other science or non-science lower division transfer course	4
COMM225	Small Group Communication and Problem-solving or SP111 Fundamentals of Public Speaking or SP218 Interpersonal Communication	4
LIB127	Introduction to Academic Research	1
MTH243	Probability and Statistics	4
NFM225	Nutrition	4
WR121	English Composition I	4
WR122	English Composition II or WR227 Technical Writing	4
—	Approved humanities electives 1	10-12
—	Approved social science electives 2	3-4
Total General Education Requirements		42-45

Core Requirements

Course No.	Course Title	Credits
BI231	Anatomy and Physiology I with lab	4
BI232	Anatomy and Physiology II with lab	4
BI233	Anatomy and Physiology III with lab	4

HE131	Introduction to Exercise and Sport Science	3
HE199	Special Studies in Health or PE199 Special Studies in Physical Education	1
HE208	HIV and Other Epidemics	1
HE250	Personal Health	3
HE252	First Aid/CPR	3
HE253	Wilderness First Aid	3
HE259	Care and Prevention of Athletic Injury	3
HPE295	Health and Fitness for Life	3
PE185	Physical Education	7
PE280	CWE/Physical Education	2
—	Approved program electives 3	7

Total Core Credits	48
TOTAL PROGRAM CREDITS	90-93

1 Approved Humanities Electives

(Complete at least three courses from the following list, 10-12 credits.)

Course No.	Course Title	Credits
ART131	Introduction to Drawing	3
ART204,205,206	History of Art I, II, III	4-4-4
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
IS110	Introduction to International Studies I	4
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SP115	Introduction to Intercultural Communication	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141	Fundamentals of Acting	4
WR241,242,243	Imaginative Writing I, II, III	4-4-4

2 Approved Social Science Electives

(Complete at least one course from the following list, 3-4 credits.)

Course No.	Course Title	Credits
ANTH110,150	Introduction to Cultural Anthropology/Archaeology	4-4
BA101	Introduction to Business	4
BA218	Personal Finance	3
CJ101/SOC244	Introduction to Criminology	4
CJ120	Introduction to the Judicial Process	4
CJ243/SOC243	Drugs, Crime and Addiction	4
COMM237	Communication and Gender	4
ECON115	Introduction to Economics	3
ECON201,202	Principles of Microeconomics/Macroeconomics	4-4
GEOG100	Introduction to Physical Geography	3
GEOG110	Introduction to Cultural and Human Geography	3



GEOG120	World Regional Geography	3
HST104	World Civilizations: Prehistory - Middle Ages	4
HST105	World Civilizations: Byzantium - Present	4
HST201	U.S. History through Reconstruction	4
HST202	U.S. History: Post-Reconstruction - Present	4
IS111	Introduction to International Studies II	3
PS201,202	U. S. Government I, II	3-3
PSY101	Psychology of Human Relations	3
PSY119	Psychology of Personal Growth	4
PSY201,202	General Psychology I, II	4-4
PSY215	Life Span Human Development	4
PSY219	Introduction to Abnormal Psychology	4
PSY231	Human Sexuality	3
SOC204,205	Introduction to Sociology, American Society	4-4
SOC211	Social Deviance and Social Control	3
SOC213	Race and Ethnicity in the U.S.	4
SOC218	Sociology of Gender	4
SOC225	Social Problems and Solutions	4
SOC228	Environment and Society	4
SOC230	Introduction to Gerontology	4
SOC235/HST259	The Chicano/Latino Historical Experience	4

### **3 Approved Program Electives**

(Select 7 credits from a related field, not otherwise required within the base program or option area.)

For more information contact the Health/Physical Education/Recreation Department:  
 Grants Pass ..... 541-956-7140  
 Medford ..... 541-245-7504  
 Toll free in Oregon ..... 800-411-6508, Ext. 7140 or Ext. 7504  
 email ..... [rwchealthpe@roguecc.edu](mailto:rwchealthpe@roguecc.edu) or [rvchealthpe@roguecc.edu](mailto:rvchealthpe@roguecc.edu)  
 Web address ..... [www.roguecc.edu/HPER](http://www.roguecc.edu/HPER)  
 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.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

### **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 electronics technology programs are:

Identify and solve real-world problems through the application of electronics theory and concepts.

Calibrate, test, and repair analog and digital circuitry using industry standard test equipment.

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.

Demonstrate life-long learning towards professional growth.

Negotiate and abide by the terms of agreement that define their employment.

### **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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### **Advanced Standing**

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

### **Prerequisites**

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8
<b>Total Prerequisite Credits</b>		<b>0-16</b>

### **General Education Courses**

Course No.	Course Title	Credits
<b>Mathematics</b>		
(Additional math classes may be required as prerequisites to some technical electives.)		
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4-5
<b>Communication (one course required)</b>		
BT113	Business English I	3-4
BT114	Business English II	
WR115	Introduction to Expository Writing	
WR121	English Composition I	
<b>Health/First Aid</b>		
HE112	Emergency First Aid	1
<b>Human Relations</b>		
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3

**Total General Education Credits 11-13**

### **Technology Area Credits (a minimum of 39 credits required)**

Course No.	Course Title	Credits
AM120	Auto Maintenance and Trades Practices with lab	6
CIS	Any computer applications course, CS/CIS125 or above (CIS125ss strongly recommended)	variable
DDM191	Advanced Animation I	3
DDM226	Advanced 3D Graphics Design (Maya)	3
DS111	Basic Electricity for Diesel Technicians I with lab	7



DS120	Diesel Trades Practices with lab	5
DS260	Hydraulic Systems for Heavy Equipment	3
EET101	Introduction to Electronics	3
EET104	Fundamentals of Manufacturing Electronics	4
EET106	Electronic Assembly	3
EET112	Introduction to Mechatronics	3
EET113	Exploration of Alternative Energies	3
EET118	Introduction to Renewable Energy Systems	5
EET120	Renewable Energy Systems (RES) Site Analysis and Design	4
EET121	North American Board of Certified Energy Practitioners (NABCEP)	
	Entry-level Preparation	2
EET125	Electronics Fundamentals I (DC)	6
EET126	Electronics Fundamentals II (AC)	6
EET127	Exploring the Raspberry Pi	3
EET129	Introduction to Embedded Systems	3
EET130	Digital Fundamentals I	6
EET131	Digital Fundamentals II	6
EET132	Digital Fundamentals III	5
EET140	Solid State Fundamentals	6
EET240	Microcontrollers I	5
MEC130	Hydraulics I	3
MET101	Mechanical Drafting	3
MET104	Applied Shop Practices	3
MET105/WLD104	Blueprint Reading - Mechanical	3
MET121	CAD I: Mechanical (SolidWorks)	3
MET122	CAD II: Mechanical (SolidWorks)	3
MET123	CAD III: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy	3
MFG101	Introduction to Manufacturing	3
MFG121	Manufacturing Processes I	4
MFG122	Manufacturing Processes II	4
MFG123	Manufacturing Processes III	4
MFG140	CNC Controls	2
MFG220	Research and Development Prototyping	4
MFG230	Statistics and Quality Control	3
MFG241	CNC Programming – Mill	4
MFG242	CAM I: Mastercam	4
MFG243	CAM II: Mastercam	4
MFG244	CNC Programming – Lathe	3
MFG255	Computer Integrated Manufacturing	4
MTH65	Fundamentals of Algebra II	4
WLD101	Welding Fundamentals I	3
WLD102	Welding Fundamentals II	3
WLD111	Technology of Industrial Welding I	6
WLD112	Technology of Industrial Welding II	6
WLD113	Technology of Industrial Welding III	6
WLD211	Technology of Industrial Welding IV	6
WLD212	Technology of Industrial Welding V	6
WLD213	Technology of Industrial Welding VI	6
WLD250	Selected Topics in Welding	variable

**Total Technology Area Credits** **39**  
**TOTAL PROGRAM CREDITS** **50-52**

<sup>1</sup> Required for graduation.

For more information contact the Electronics Technology Department:

Grants Pass or Medford ..... 541-245-7809

Toll free in Oregon .....  
800-411-6508, Ext. 7809

email .....electronics@roguecc.edu

Web address ..... www.roguecc.edu/electronics

TTY ..... Oregon Telecom Relay Service, 711

## High Technology Studies: Plant Systems Technician Career Pathway Certificate

### About the Program

This three-term pathway sequence of coursework will ensure students a foundational level of skills that may provide a competitive advantage when being considered for hire in a variety of commercial plant environments. With these foundational skills to build on, students are potential candidates for sponsorship by their employers into one of many Bureau of Labor and Industry (BOLI) apprenticeship programs. RCC is not authorized to sponsor entrance into any apprenticeship program, but apprenticeship coursework is provided by the college.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

### 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 electronics technology programs are:

Identify and solve real-world problems through the application of electronics theory and concepts.

Calibrate, test, and repair analog and digital circuitry using industry standard test equipment.

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.

Demonstrate life-long learning towards professional growth.

Negotiate and abide by the terms of agreement that define their employment.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Electronics 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 Electronics Technology Department.

#### High Technology Studies: Plant Systems Technician – Career Pathways Certificate (41 credits)

- Entry-level industrial machinery mechanic <sup>1</sup>
- Entry-level maintenance worker, machinery <sup>1</sup>
- Entry-level mechanical door repairer <sup>1</sup>
- Entry-level maintenance and repair worker, general <sup>1</sup>
- Entry-level assembler and fabricator <sup>1</sup>



### High Technology Studies — Certificate of Completion (50-52 credits)

- Industrial machinery mechanic <sup>1</sup>
- Maintenance worker, machinery <sup>1</sup>
- Mechanical door repairer <sup>1</sup>
- Maintenance and repair worker, general <sup>1</sup>
- Assembler and fabricator <sup>1</sup>

### High Technology Studies credits could lead to Associate of Applied Science degrees in the following fields:

- Industrial Welding Technology (92-97 credits)
- Manufacturing/Engineering Technology (97-108 credits)
- Electronics Technology (98-104 credits)
- Diesel Technology (95-97 credits)

### RCC Pre-apprenticeship Introduces students with employer sponsorship to skills needed in the following trades:

- Construction
- Electrician
- Industrial mechanics and maintenance

### Credits could lead to Associate of Science degrees transferrable to Oregon Tech (OT):

- Manufacturing/Engineering Technology (105-108 credits)
- Computer and Embedded systems Engineering (108 credits)

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.roguecc.edu/CareerPathways/](http://www.roguecc.edu/CareerPathways/)

## 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented proficiency within the past ten years.	0-4
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

**Total Prerequisite Credits 0-16**

## Required Core Courses

Course No.	Course Title	Credits
<b>First Term</b>		
EET104	Introduction to Manufacturing Electronics	4
MET105	Blueprint Reading – Mechanical	3
MFG101	Introduction to Manufacturing	3
MFG140	CNC Controls	2
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
		16

### Second Term

EET112	Introduction to Mechatronics	3
MFG121	Manufacturing Processes I	4
WLD111	Technology of Industrial Welding I	6
		13

### Third Term

MEC130	Hydraulics I	3
MFG122	Manufacturing Processes II	4
WLD250C	Selected Topics: SMAW	2
WR115	Introduction to Expository Writing I	3
		12

### TOTAL PROGRAM CREDITS

**41**

<sup>1</sup> BT113 Business English I, 4 credits, may be taken in lieu of WR115 Introduction to Expository Writing.

For more information contact the Electronics Technology Department:

Grants Pass or Medford . . . . . 541-245-7809

Toll free in Oregon . . . . .

800-411-6508, Ext. 7809

email . . . . . [electronics@roguecc.edu](mailto:electronics@roguecc.edu)

Web address . . . . . [www.roguecc.edu/electronics](http://www.roguecc.edu/electronics)

TTY . . . . . Oregon Telecom Relay Service, 711

## History Interest

### Associate of Arts Oregon Transfer Degree

A total of 90 credits are required to complete the Associate of Arts Oregon Transfer (AAOT) degree and the courses listed below are only meant to serve as a of recommended choices within categories required in the AAOT framework. See the AAOT graduation guide 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.

Course No.	Course Title	Credits	AAOT Category
ENG107	World Literature: Ancient to Classical	4	Humanities
ENG108	World Literature: Medieval to Renaissance	4	Humanities
ENG109	World Literature: Enlightenment To Modern	4	Humanities
HST104	World Civilizations: Prehistory - Middle Ages	4	Social Science
HST105	World Civilizations: Byzantium - Present	4	Social Science
HST201	U.S. History through Reconstruction	4	Social Science
HST202	U.S. History: Post-Reconstruction - Present	4	Social Science
MTH243	Probability and Statistics w/lab <sup>1</sup>	4	Math
SOC235/HST259	The Chicano/Latino Historical Experience	4	Social Science
SPAN201 2	Second Year Spanish I	4	Humanities
SPAN202 2	Second Year Spanish II	4	Humanities
SPAN203 2	Second Year Spanish III	4	Humanities

<sup>1</sup> Students should inquire with their receiving institution as to whether MTH243 is accepted.

<sup>2</sup> Two years of a college-level World Language is required for a Bachelor of Arts degree.

Note: Three courses required in the Humanities category. Additional courses would count as electives.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	<a href="http://www.eou.edu">www.eou.edu</a>
Oregon State University	<a href="http://www.oregonstate.edu">www.oregonstate.edu</a>
Portland State University	<a href="http://www.pdx.edu">www.pdx.edu</a>
Oregon Tech	<a href="http://www.oit.edu">www.oit.edu</a>
Southern Oregon University	<a href="http://www.sou.edu">www.sou.edu</a>



# Human Services

## Associate of Applied Science Degree

### About the Program

The Human Services program is designed to provide pre-employment training and education for entry-level social service workers and substance abuse 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 second year of 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 human service programs are:

Apply principals of ethical decision making in the human services field and practice ethical behavior in relation to self and others within the helping relationship.

Establish rapport and a therapeutic alliance with clients through the demonstration of empathy, genuineness, congruence, and unconditional positive regard.

Promote personal growth in self and others by practicing positive living, optimism, self-examination and willingness to change.

Exhibit sensitivity and insight into the wide variety of problems in living experienced by individuals and groups in contemporary society.

Demonstrate clinical skills of screening, assessment, treatment planning, termination and referral.

Incorporate knowledge about the interrelated effects of addictions, poverty, mental and physical illness, and homelessness on family dynamics and intimate relationships in an integrated approach to addressing issues of family and intimate partner violence, child abuse and neglect.

Demonstrate specific skills in active listening, motivational interviewing, group counseling, crisis intervention and management, and counseling chemically dependent, traumatized, mentally ill and emotionally disturbed clients, as well as those with co-occurring mental health and addictions diagnoses.

Function effectively as a member of a team in providing services, designing programs, and working collaboratively among agencies and organizations for the benefit of clients and the community.

Actively engage in continuing education, lifelong learning and pro-active self-care.

### Entry Requirements

Students are required to take the college 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 the placement test scores. In addition, students may be required to enroll in courses that would increase their employability and success.

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 limited-entry program requiring completion of an application that includes a writing sample and personal references. For more information on how to apply, including application deadlines, visit the Human Services website at [www.roguecc.edu/humanservices](http://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 660 hours of documented practicum (20 credits) is required. A minimum of four practicum seminars must also be completed.

### Prerequisites <sup>1</sup>

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or BT160 Business Math or higher level math	4
PSY101	Psychology of Human Relations	3
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I	4
<b>Total Prerequisite Credits</b>		<b>15-19</b>

### Required First Year Courses

Course No.	Course Title	Credits
<b>First Term</b>		
HS100	Introduction to Human Services	3
HS170	Introduction to Practicum	3
LIB127	Introduction to Academic Research	1
PSY201	General Psychology I	4
PSY231	Human Sexuality	3
SOC243	Drugs, Crime and Addiction	4
		18
<b>Second Term</b>		
CG144	Introduction to Assertiveness	1
HS152	Stress Management	1
HS155	Interviewing Theory and Techniques	4
HS175	Ethics for Counselors	1
HS261C	Human Services Practicum and Seminar	3
PSY202	General Psychology II	4
PSY215	Life Span Human Development	4
		18

### Third Term

HE208	HIV and Infectious Diseases	1
HS261D	Human Services Practicum and Seminar	4
HS115	Principles of Client Record Management	1
HS158	Trauma-informed Care: Theory and Practice	3
HS202	Counseling the Chemically Dependent Client I	3
PSY228	Introduction to Positive Psychology	4
—	Approved program elective	0-2
		16-18

**Total First Year Credits 52-54**

### Required Second Year Courses

Course No.	Course Title	Credits
<b>Fourth Term</b>		
HDFS260	Child Abuse and Neglect	3
HS201	Family Dynamics	3
HS210	Motivational Interviewing	3



HS261D	Human Services Practicum and Seminar	4
PSY219	Introduction to Abnormal Psychology	4
		17

### Fifth Term

HS260	Group Counseling	4
HS261D	Human Services Practicum and Seminar	4
HS266	Crisis Intervention Strategies	3
HS268	Co-occurring Disorders: Introductory Theory and Counseling	3
SOC230	Introduction to Gerontology	4
		18

### Sixth Term

HE261	CPR/Basic Life Support Provider	1
HS261E	Human Services Practicum and Seminar	5
HS265	Counseling Theories	3
SOC213	Race and Ethnicity in the U.S.	4
—	Approved program electives	0-6
		13-19

**Total Second Year Credits** **48-54**

**TOTAL PROGRAM CREDITS** **100-108**

## Approved Program Electives

Course No.	Course Title	Credits
BA109	Ready, Set, Work: Techniques for Landing a Job	2
HC100	Community Health Worker	6
HS204	Counseling Chemically Dependent Client II	3
PSY119	Psychology of Personal Growth	4
SOC211	Social Deviance and Social Control	3
SOC218	Sociology of Gender	4
SOC221/CJ201	Juvenile Delinquency	4
SOC225	Social Problems and Solutions	4
SOC235/HST259	The Chicano/Latino Historical Experience	4
SOC237	Communication, Relationships and Technology	4

<sup>1</sup> All prerequisite courses are required for graduation and may include additional classes based on placement scores.

For more information contact the Human Services Department:

Grants Pass or Medford ..... 541-245-7504  
Toll free in Oregon ..... 800-411-6508, Ext. 7504  
email ..... humanservices@rogucecc.edu  
Web address ..... www.rogucecc.edu/humanservices  
TTY ..... Oregon Telecom Relay Service, 711

## Human Services Transfer to Southern Oregon University Associate of Science Degree

### 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 fully articulated with SOU's Human Service program and allows students to transfer directly as juniors into the program at SOU with no loss of credits to pursue a bachelor's degree.

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 human service programs are:

Apply principals of ethical decision making in the human services field and practice ethical behavior in relation to self and others within the helping relationship.

Establish rapport and a therapeutic alliance with clients through the demonstration of empathy, genuineness, congruence, and unconditional positive regard.

Promote personal growth in self and others by practicing positive living, optimism, self-examination and willingness to change.

Exhibit sensitivity and insight into the wide variety of problems in living experienced by individuals and groups in contemporary society.

Demonstrate clinical skills of screening, assessment, treatment planning, termination and referral.

Incorporate knowledge about the interrelated effects of addictions, poverty, mental and physical illness, and homelessness on family dynamics and intimate relationships in an integrated approach to addressing issues of family and intimate partner violence, child abuse and neglect.

Demonstrate specific skills in active listening, motivational interviewing, group counseling, crisis intervention and management, and counseling chemically dependent, traumatized, mentally ill and emotionally disturbed clients, as well as those with co-occurring mental health and addictions diagnoses.

Function effectively as a member of a team in providing services, designing programs, and working collaboratively among agencies and organizations for the benefit of clients and the community.

Actively engage in continuing education, lifelong learning and pro-active self-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. In addition, students may also be required to enroll in classes that would increase their employability and success.

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 limited-entry program requiring completion of an application that includes a writing sample and personal references. For more information on how to apply, including application deadlines, visit the Human Services website, [www.rogucecc.edu/humanservices](http://www.rogucecc.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 video-taped 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 who begin this degree fall term 2017 or later must earn a minimum grade of "C" in HS266, MTH243, PSY201, PSY202, PSY215, SOC204 and WR122.

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.



## Prerequisites <sup>1</sup>

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or designated placement test score <sup>2</sup>	0-4
PSY101	Psychology of Human Relations	3
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I	<u>4</u>
<b>Total Prerequisite Credits</b>		<b>11-19</b>

## General Education Requirements

Course No.	Course Title	Credits
LIB127	Introduction to Academic Research	1
MTH243	Probability and Statistics with lab <sup>2</sup>	4
SOC204	Introduction to Sociology	4
WR122	English Composition II or WR227 Technical Writing	4
—	Approved humanities electives <sup>3</sup>	9-12
—	Approved science electives <sup>4</sup>	<u>11-15</u>
<b>Total General Education Requirements</b>		<b>33-40</b>

## Core Requirements

Course No.	Course Title	Credits
<b>First Term</b>		
HS100	Introduction to Human Services	3
HS170	Introduction to Practicum	3
PSY201	General Psychology I	4
SOC243/CJ243	Drugs, Crime and Addiction	<u>4</u>
		14
<b>Second Term</b>		
CG144	Introduction to Assertiveness	1
HS152	Stress Management	1
HS155	Interviewing Theory and Techniques	4
HS175	Ethics for Counselors	1
HS261D	Human Services Practicum and Seminar	4
PSY202	General Psychology II	<u>4</u>
		15
<b>Third Term</b>		
HE208	HIV and Infectious Diseases	1
HS115	Principles of Client Record Management	1
HS202	Counseling the Chemically Dependent Client I	3
HS261D	Human Services Practicum and Seminar	4
HS158	Trauma-informed Care: Theory and Practice	3
PSY215	Life Span Human Development	<u>4</u>
		16
<b>Fourth Term</b>		
HDFS260	Child Abuse/Neglect	3
HS210	Motivational Interviewing	<u>3</u>
		6
<b>Fifth Term</b>		
HS260	Group Counseling	4
HS266	Crisis Intervention Strategies	3
HS268	Co-occurring Disorders: Introductory Theory and Counseling	<u>3</u>
		10
<b>Sixth Term</b>		
HS265	Counseling Theories	3

SOC230	Introduction to Gerontology	<u>4</u>
		7

<b>Total Core Credits</b>	<b>68</b>
<b>TOTAL PROGRAM CREDITS</b>	<b>101-108</b>

<sup>1</sup> Required for graduation.

<sup>2</sup> MTH95 or MTH96 prerequisite required before enrolling in MTH243.

## <sup>3</sup> Approved Humanities Electives

(Complete at least three courses from the following list, 9-12 credits.)

Course No.	Course Title	Credits
ART131	Introduction to Drawing	3
ART204,205,206	History of Art I, II, III	4-4-4
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
FR101,102,103	First Year French I, II, III	4-4-4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SP115	Introduction to Intercultural Communication	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141	Fundamentals of Acting	4
WR241,242,243	Imaginative Writing I, II, III	4-4-4

## <sup>4</sup> Approved Science/Lab Science Electives

(Complete at least three courses from the following list, 11-15 credits - at least two courses must have labs. Note that only one course can be a regional field studies course indicated by asterisk.)

Course No.	Course Title	Credits
BI100GB	Introductory Biology (non-lab course)	3
BI100SB	Biology of Human Body Systems (non-lab course)	3
BI101,102,103	Introduction to Biology I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM105R	Introductory Organic Chemistry recitation	1
CHEM106	Introductory Biochemistry with lab	4
CHEM106R	Introductory Biochemistry recitation	1
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CIS195	Web Authoring I (HTML/CSS) (non-lab course)	4
G100	Fundamentals of Geology (non-lab course)	3
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GEOG100	Introduction to Physical Geography (non-lab course)	3



GS104,106,107,108	Physical Science with lab	4-4-4-4
GS170 *	Regional Field Studies with lab	4
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

Note: Students who have graduated from high school or completed a high school equivalency program in 1997 or after must have the following requirement for admission to a four-year Oregon university:

1) Two years of the same high school-level world language, or 2) two terms of college-level world language with a grade of "C" or better (may be first-year world language, which can be used as elective credits on the Associate of Arts Oregon Transfer degree). If students plan to complete a Bachelor of Arts (BA) degree at a four-year school, they must have a proficiency in a world language regardless of when they graduated from high school or equivalency program.

For more information contact the Human Services Department:

Grants Pass or Medford . . . . . 541-245-7504  
Toll free in Oregon . . . . . 800-411-6508, Ext. 7504  
email . . . . . humanservices@rogucecc.edu  
Web address . . . . . www.rogucecc.edu/humanservices  
TTY . . . . . Oregon Telecom Relay Service, 711

## Industrial Welding Technology

### Associate of Applied Science Degree

### 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 [www.sou.edu/degreecompletion](http://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 industrial welding programs are:

Show a serious commitment to a culture of safety in all college and work environments.

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

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

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

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

Develop a logical sequence of steps to foresee, troubleshoot, and resolve mechanical and process issues that may arise in the workplace.

Interpret and create mechanical blueprints to industry standards.

Layout and fabricate industry-quality fabrication projects using shearing and forming equipment.

Demonstrate a commitment to the professional standards of the industry.

### 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. In addition, students may also

be required to enroll in classes that would increase their employability and success.

### 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 three 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 and review the roadmap at [www.rogucecc.edu/Programs/CareerPathways](http://www.rogucecc.edu/Programs/CareerPathways).

### 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.

### Prerequisites

Course No.	Course Title	Credits
BBT113	Business English I or WR115 Introduction to Expository Writing or higher level composition <sup>1</sup>	3-4
CS/CIS	Approved 3-4 credit Computer Science class, CS/CIS120 or above or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
MEC102	Basic Hand Tools or demonstrated proficiency	0-3
MTH20	Pre-algebra or designated placement test score	0-4
<b>Total Prerequisite Credits</b>		<b>3-15</b>

### First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
HE112	Emergency First Aid	1
MET101	Mechanical Drafting	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
WLD111	Technology of Industrial Welding I	6
		14
<b>Second Term</b>		
LIB127	Introduction to Academic Research or LIB101 Introduction to Information Literacy	1
WLD104	Blueprint Reading – Mechanical	3
WLD112	Technology of Industrial Welding II	6
WLD121	Fabrication and Repair Practices I	5
		15

### Third Term

BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
BT114	Business English II or WR121 English Composition I or higher level composition <sup>2</sup>	4
WLD113	Technology of Industrial Welding III	6
WLD122	Fabrication and Repair Practices II	5
		18

**Total First Year Credits 47**

### Second Year Required Courses

Course No.	Course Title	Credits
<b>Fourth Term</b>		
GS104	Physical Science with lab or approved program elective	3-4
MFG121	Manufacturing Processes I	4



WLD211	Technology of Industrial Welding IV	6
WLD220	Machine Tool Maintenance and Repair	3
WLD221	Welding Codes, Procedures and Inspections	2
		19-20

#### Fifth Term

MEC103	Industrial Safety	3
MEC114	Safety for Industry	3
WLD212	Technology of Industrial Welding V	6
WLD225	Industrial Metallurgy or MET160 Materials and Metallurgy	3
		15

#### Sixth Term

WLD213	Technology of Industrial Welding VI	6
WLD280	Cooperative Work Experience/Welding or WLD250F Capstone	2-3
—	Approved program elective	3-6
		11-15

**Total Second Year Credits** **45-50**

**TOTAL PROGRAM CREDITS** **92-97**

### Approved Program Electives

(minimum of 3-6 credits required)

Course No.	Course Title	Credits
BA109	Ready, Set, Work: Techniques for Landing a Job	2
DS260	Hydraulic Systems for Heavy Equipment with lab	3
EET101	Introduction to Electronics	3
MEC116	Quality Practices and Measurements	3
MEC124	Hoisting and Rigging I	3
MEC125	Pneumatics I	3
MEC130	Hydraulics I	3
MEC149	Electric Motor Control	4
MET121	Computer Aided Drafting I: Mechanical (SolidWorks)	3
MET122	Computer Aided Drafting II: Mechanical (SolidWorks)	3
MET123	Computer Aided Drafting III: Mechanical (SolidWorks)	3
MFG122	Manufacturing Processes II	4
MFG123	Manufacturing Processes III	4
MFG211	Manufacturing Power and Control Electronics	4
MFG291	Laser Cutting and Engraving Fundamentals	2
WLD160	American Welding Society (AWS) Certification Seminar: Plate	1
WLD250	Selected Topics in Welding	variable
WLD250P	Selected Topics in Welding: CNC Plasma Cutting	3
WLD260	American Welding Society (AWS) Certification Seminar: Pipe	1
—	Any college-level course numbered 100 or above	variable

<sup>1</sup> Required for graduation.

<sup>2</sup> Students must complete either BT113 and BT114 or WR115 and WR121 (or higher level composition classes). Three credits of speech may be substituted for 3-4 credits of writing. Students who have successfully completed the 3-credit versions of BT113 and BT114 will have met this requirement.

For more information contact the Industrial Welding Department:

Grants Pass or Medford ..... 541-245-7809  
Toll free in Oregon ..... 800-411-6508, Ext. 7809  
email ..... welding@rogucecc.edu  
Web address ..... www.rogucecc.edu/welding  
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.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. Visit <http://www.rogucecc.edu/GainfulEmployment/> for more information.

### 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 programs are:

Show a serious commitment to a culture of safety in all college and work environments.

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

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

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

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

Develop a logical sequence of steps to foresee, troubleshoot, and resolve mechanical and process issues that may arise in the workplace.

Interpret and create mechanical blueprints to industry standards.

Layout and fabricate industry-quality fabrication projects using shearing and forming equipment.

Demonstrate a commitment to the professional standards of the industry.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### 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 three 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 and review the roadmap at [www.rogucecc.edu/Programs/CareerPathways](http://www.rogucecc.edu/Programs/CareerPathways).

### 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.



## Prerequisites

Course No.	Course Title	Credits
BT113	Business English I or WR115 Introduction to Expository Writing or higher level composition <sup>1,2</sup>	3-4
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
MEC102	Basic Hand Tools	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4

**Total Prerequisite Credits** **10-15**

## Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
HE112	Emergency First Aid	1
MEC114	Safety for Industry	3
MET101	Mechanical Drafting	3
WLD111	Technology of Industrial Welding I	6
		13
<b>Second Term</b>		
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
WLD104	Blueprint Reading - Mechanical	3
WLD112	Technology of Industrial Welding II	6
WLD221	Welding Codes, Procedures and Inspections	3
		15
<b>Third Term</b>		
WLD113	Technology of Industrial Welding III	6
WLD121	Fabrication and Repair Practices I	5
—	Approved program elective	3-4
		14-15

**TOTAL PROGRAM CREDITS** **42-43**

## Approved Program Electives

(3-4 credits required)

Course No.	Course Title	Credits
BA109	Ready, Set, Work: Techniques for Landing a Job	2
EET101	Introduction to Electronics	3
GS104	Physical Science with lab	4
MEC103	Industrial Safety	1
MEC116	Quality Practices and Measurements	3
MET121	Computer Aided Drafting I: Mechanical (SolidWorks)	3
MET122	Computer Aided Drafting II: Mechanical (SolidWorks)	3
MET123	Computer Aided Drafting III: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy	3
MFG121	Manufacturing Processes I	4
MFG122	Manufacturing Processes II	4
MFG123	Manufacturing Processes III	4
WLD160	American Welding Society (AWS) Certification Seminar: Plate	1
WLD250	Selected Topics in Welding	variable
WLD260	American Welding Society (AWS) Certification Seminar: Pipe	1

<sup>1</sup> Required for graduation.

<sup>2</sup> Students who have successfully completed the 3-credit version of BT113 will have met the writing prerequisite.

For more information contact the Industrial Welding Department:

Grants Pass or Medford ..... 541-245-7809  
Toll free in Oregon ..... 800-411-6508, Ext. 7809  
email ..... welding@rogucecc.edu  
Web address ..... www.rogucecc.edu/welding  
TTY ..... Oregon Telecom Relay Service, 711

## Industrial Welding Technology: Welder's Helper Career Pathways 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.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.rogucecc.edu/GainfulEmployment](http://www.rogucecc.edu/GainfulEmployment).

### 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 programs are:

Show a serious commitment to a culture of safety in all college and work environments.

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

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

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

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

Develop a logical sequence of steps to foresee, troubleshoot, and resolve mechanical and process issues that may arise in the workplace.

Interpret and create mechanical blueprints to industry standards.

Layout and fabricate industry-quality fabrication projects using shearing and forming equipment.

Demonstrate a commitment to the professional standards of the industry.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### 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 three 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 and review the roadmap at [www.rogucecc.edu/Programs/CareerPathways](http://www.rogucecc.edu/Programs/CareerPathways).



## 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.

### Industrial Welding Technology: Welder's Helper Career Pathways Certificate (25-28 credits)

- Entry-level work experiences in the welding industry <sup>1</sup>

### Industrial Welding Technology Certificate of Completion (42-43 credits)

- Welding, soldering, and brazing machine setters, operators, and tenders so you can set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies. Include workers who operate laser cutters or laser-beam machines <sup>1</sup>

### Industrial Welding Technology Associate of Applied Science (AAS) (92-97 credits)

- Welder/fabricator, pipe welder, equipment repairer, cutter, solder, and brazier <sup>1</sup>

### Management SOU, Bachelor of Applied Science articulated with RCC's AAS degrees

- Supervisor/manager <sup>1</sup>
- Business owner <sup>1</sup>

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.roguecc.edu/CareerPathways/](http://www.roguecc.edu/CareerPathways/)

## Prerequisites

Course No.	Course Title	Credits
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

**Total Prerequisite Credits** 0-12

## Required Courses

Course No.	Course Title	Credits
MEC102	Basic Hand Tools or demonstrated proficiency	0-3
MET101	Mechanical Drafting	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
WLD111	Technology of Industrial Welding I	6
WLD112	Technology of Industrial Welding II	6
WLD113	Technology of Industrial Welding III	6

**TOTAL PROGRAM CREDITS** 25-28

For more information contact the Industrial Welding Department:

Grants Pass or Medford ..... 541-245-7809  
Toll free in Oregon ..... 800-411-6508, Ext. 7809  
email ..... [welding@roguecc.edu](mailto:welding@roguecc.edu)  
Web address ..... [www.roguecc.edu/welding](http://www.roguecc.edu/welding)  
TTY ..... Oregon Telecom Relay Service, 711

## Information Technology/ Transfer to Oregon Tech Associate of Science Degree

## 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 54 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 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 Information Technology Transfer to Oregon Tech degree is:

Students will be prepared to transfer into Oregon Tech's Information Technology program.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH95	Intermediate Algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3

**Total Prerequisite Credits:** 0-11

## General Education Requirements

Course No.	Course Title	Credits
ECON201	Principles of Microeconomics	4
ECON202	Principles of Macroeconomics	4
LIB127	Introduction to Academic Research	1
MTH111	College Algebra	4
MTH243	Probability and Statistics with lab	4
MTH244	Inferential Statistics	4
PSY202	General Psychology II	4
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I	4
WR122	English Composition II	4
WR227	Technical Writing	4



—	Approved humanities electives <sup>1</sup>	6-8
—	Approved science electives <sup>2</sup>	4
<b>Total General Education Requirements</b>		<b>51-53</b>

## Core Requirements

Course No.	Course Title	Credits
BA206	Management Fundamentals	3
BA211	Financial Accounting I	4
BA212	Financial Accounting II	4
BA213	Managerial Accounting	4
BA223	Principles of Marketing	3
BA226	Business Law	4
CIS125DB	Data Base Management Systems	3
CIS125SS	Spreadsheet Applications or BA285 Advanced Business Applications: Excel	4
CIS140	Operating Systems	4
CIS179	Introduction to Networks	4
CIS227	PC Hardware Fundamentals and Repair	5
CIS279	Network Operating Systems	4
CS133C#	Programming Fundamentals Using C#	4
CS275	Database Development I	4

**Total Core Credits** **54**

**TOTAL PROGRAM CREDITS** **105-107**

## <sup>1</sup> Approved Humanities Electives

(Complete at least three courses from the following list, 9-12 credits. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design (Composition/Color Theory)	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature I, II, III	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature I, II, III	4-4-4
ENG253,254,255	Survey of American Literature I, II, III	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities I, II, III	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

## <sup>2</sup> 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 Science Department:

Grants Pass	541-956-7213
Medford	541-245-7527
Toll free in Oregon	800-411-6508, Ext. 7213 or Ext. 7527
email	cs@roguecc.edu
Web address	www.roguecc.edu/computerscience
TTY	Oregon Telecom Relay Service, 711

## Manufacturing/Engineering Technology Associate of Applied Science Degree

### 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 engineering 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. For transfer to a four-year institution in engineering, additional or alternate transfer courses will be recommended.

### 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 manufacturing programs are:

Operate, set up, and program manual and CNC mills and lathes to print specifications.

Interpret and create mechanical blueprints to industry standards.

Follow, develop, and troubleshoot manufacturing processes and procedures.

Demonstrate the ability to adhere to personal and industry safety standards to protect personnel and equipment.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with the Manufacturing/Engineering 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 Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor and review the roadmap at [www.roguecc.edu/Programs/CareerPathways](http://www.roguecc.edu/Programs/CareerPathways).



## 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
MEC102	Basic Hand Tools or demonstrated proficiency	0-3
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8
<b>Total Prerequisite Credits</b>		<b>0-19</b>

## First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
MET101	Mechanical Drafting	3
MET105	Blueprint Reading - Mechanical	3
MFG101	Introduction to Manufacturing	3
MFG116	Metrology	2
MFG121	Manufacturing Processes I	4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	<u>4</u> 19

### Second Term

MET104	Applied Shop Practices or MTH112 Elementary Functions	3-4
MET121	Computer Aided Drafting I: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy or WLD225 Industrial Metallurgy	3
MFG122	Manufacturing Processes II	4
MFG140	CNC Controls	2
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition	<u>3-4</u> 18-20

### Third Term

LIB127	Introduction to Academic Research, or LIB101 Introduction to Information Literacy	1
MET122	Computer Aided Drafting II: Mechanical (SolidWorks)	3
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
MFG123	Manufacturing Processes III	4
MFG241	CNC Programming - Mill	<u>4</u> 15

**Total First Year Credits 52-54**

## Second Year Required Courses

Course No.	Course Title	Credits
<b>Fourth Term</b>		
EET101	Introduction to Electronics	3
GS104	Physical Science with lab or approved program elective	4
MFG230	Statistics and Quality Control	3
MFG242	CAM I: Mastercam	4
WLD101	Welding Fundamentals I	3
		17

## Fifth Term

MFG220	Research and Development Prototyping or MFG280 Cooperative Work Experience/Manufacturing	4
MFG243	CAM II: Mastercam	4
WLD102	Welding Fundamentals II or approved program elective	3
WR121	English Composition I or BT114 Business English II or higher level composition	4
—	Approved program electives	<u>1-4</u> 16-19

## Sixth Term

HE112	Emergency First Aid or approved health/first aid elective (see this catalog for approved list of electives)	1-3
MET111	Computer Aided Drafting I: Mechanical (Autodesk Inventor)	3
MFG255	Computer Integrated Manufacturing or MFG280 Cooperative Work Experience/Manufacturing	4
MFG262	Lean Manufacturing	3
—	Approved program electives	<u>1-5</u> 12-18

**Total Second Year Credits 45-54**

**TOTAL PROGRAM CREDITS 97-108**

## Approved Program Electives

(minimum 2-9 credits required)

Course No.	Course Title	Credits
BA109	Ready, Set, Work: Techniques for Landing a Job	2
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM105R	Introductory Organic Chemistry Recitation	1
CHEM106	Introductory Biochemistry with lab	4
CHEM106R	Introductory Biochemistry Recitation	1
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CIS	Any CIS applications course (CIS125SS highly recommended)	variable
CIS140	Introduction to Operating Systems	4
CIS179	Introduction to Networks	4
CIS240	Advanced Operating Systems	4
CS161J	Computer Science I (Java)	4
CS161U	Computer Science I (C++)	4
CS162J	Computer Science II (Java)	4
CS162U	Computer Science II (C++)	4
EET106	Electronic Assembly	3
EET129	Introduction to Embedded Systems	3
EET225	Electronics Troubleshooting	3
ENGR101	Engineering Orientation I: Careers, Skills and Computer Tools	2
ENGR102	Engineering Orientation II: Careers, Skills and Computer Tools	2
ENGR103	Engineering Orientation III: Careers, Skills and Computer Tools	2
ENGR201	Electrical Fundamentals with lab	3
ENGR202	Electrical Fundamentals II with Lab	3
ENGR211	Statics	3
ENGR212	Dynamics	3
ENGR213	Strength of Materials	3
MEC103	Industrial Safety (Highly Recommended)	1
MEC114	Safety for Industry	3
MEC116	Quality Practices and Measurement	3
MEC118	Manufacturing Processes and Production	3
MEC120	Maintenance Awareness	4
MEC130	Hydraulics I	3
MEC140	Green Production	2
MEC149	Electric Motor Control	4
MEC240	Robotics I	3



MET112,113	Computer Aided Drafting II, III: Mechanical (Autodesk Inventor)	3-3
MET123	Computer Aided Drafting III: Mechanical (SolidWorks)	3
MFG199	Selected Topics in Manufacturing	variable
MFG210	AC/DC Electrical Systems for Manufacturing	3
MFG211	Manufacturing Power and Control Electronics	4
MFG215	Electrical Control Systems and Sensors for Manufacturing	3
MFG244	CNC Programming – Lathe	3
MFG280	Cooperative Work Experience/Manufacturing	variable
MFG280S	CWE/Manufacturing Seminar	1
MFG291	Laser Cutting and Engraving Fundamentals	2
MTH65	Fundamentals of Algebra II <sup>2</sup> or higher level math courses	variable
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5
WLD102	Welding Fundamentals II (if not taken core requirement)	3
WLD111,112,113	Technology of Industrial Welding I, II, III	6-6-6
WLD111M	Technology of Industrial Welding for Manufacturing	6
WLD121,122	Fabrication and Repair Practices I, II	5-5
WLD250P	Selected Topics: CNC Plasma Cutting	3

<sup>1</sup> Required for graduation.

<sup>2</sup> If not taken as required course.

For more information contact the Manufacturing and Engineering Technology Department:

Grants Pass or Medford . . . . . 541-245-7902

Toll free in Oregon . . . . . 800-411-6508, Ext. 7902

email . . . . . manufacturing@rogucecc.edu

Web address . . . . . www.rogucecc.edu/manufacturing

TTY . . . . . Oregon Telecom Relay Service, 711

## Manufacturing/Engineering Technology: Computer Numerical Control (CNC) Operator Career Pathways Certificate

### About the Program

This Career Pathways two-term certificate integrates conventional manufacturing techniques with computer numerical control (CNC) manufacturing skills. This training is the entry point in the Manufacturing Career Pathway leading to the Computer Numerical Control (CNC) Technician program and to a valuable career in the manufacturing engineering technology field. In addition to technical training, students receive a solid foundation in mathematics and computer skills. Graduates typically enter the workforce as computer numerical control (CNC) operators. With additional on-the-job experience and continued education, students can transition into CNC programming and quality control inspection.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit <http://www.rogucecc.edu/GainfulEmployment>.

### 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 manufacturing programs are:

Operate, set up, and program manual and CNC mills and lathes to print specifications.

Interpret and create mechanical blueprints to industry standards.

Follow, develop, and troubleshoot manufacturing processes and procedures.

Demonstrate the ability to adhere to personal and industry safety standards to protect personnel and equipment.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Manufacturing and Engineering 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/Engineering 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 and review the roadmap below and at <http://www.rogucecc.edu/Programs/CareerPathways>.

#### Computer Numerical Control (CNC) Operator

##### Career Pathways Certificate of Completion (28-29 credits)

- Machine operator (Multiple machine tool setters, operators, and tenders, metal and plastic) <sup>1</sup>
- Computer-controlled machine tool operators (metal and plastic) <sup>1</sup>

#### Computer Numerical Control (CNC) Technician

##### Certificate of Completion (51-53 credits)

- Computer Numerical Control (CNC) Technician <sup>1</sup>
- Computer Aided Drafter/Designer (CAD) <sup>1</sup>
- Entry-level machinist <sup>1</sup>

### 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.

#### Manufacturing/ Engineering Technology – Articulated Associate of Science (AS)

##### Degree (105-108 credits), Transfers to Oregon Tech (OT)

- Mechanical engineering technician <sup>1</sup>
- Machinist <sup>1</sup>
- Engineering assistant <sup>1</sup>

#### Manufacturing/ Engineering Technology – Associate of Applied Science (AAS) Degree (97-108 credits)

- Mechanical engineer <sup>1</sup>
- Manufacturing engineer <sup>1</sup>
- Industrial engineer <sup>1</sup>
- Materials engineer <sup>1</sup>

#### Articulated with OT's Mechanical Engineering Technology program Bachelor of Science (BS)

- Mechanical engineer <sup>1</sup>
- Manufacturing engineer <sup>1</sup>
- Industrial engineer <sup>1</sup>
- Materials engineer <sup>1</sup>

#### Management, SOU, Bachelor of Applied Science articulated with RCC's AAS degree

- Supervisor/Manager <sup>1</sup>
- Business owner <sup>1</sup>

#### Manufacturing Engineering OT's Master of Science

- Engineering manager <sup>1</sup>
- Natural science manager <sup>1</sup>



<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.roguecc.edu/CareerPathways/](http://www.roguecc.edu/CareerPathways/)

## Prerequisites

Course No.	Course Title	Credits
MEC102	Basic Hand Tools or demonstrated proficiency	0-3
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8
<b>Total Prerequisite Credits</b>		<b>0-15</b>

## Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
MET101	Mechanical Drafting	3
MET105	Blueprint Reading - Mechanical	3
MFG116	Metrology	2
MFG121	Manufacturing Processes I	4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4 16
<b>Second Term</b>		
MET121	Computer Aided Drafting I: Mechanical (SolidWorks)	3
MFG122	Manufacturing Processes II	4
MFG140	CNC Controls	2
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition	3-4 12-13

**TOTAL PROGRAM CREDITS** **28-29**

For more information contact the Manufacturing and Engineering Technology Department:

Grants Pass or Medford. . . . . 541-245-7902  
Toll free in Oregon . . . . . 800-411-6508, Ext. 7902  
email . . . . . [manufacturing@roguecc.edu](mailto:manufacturing@roguecc.edu)  
Web address . . . . . [www.roguecc.edu/manufacturing](http://www.roguecc.edu/manufacturing)  
TTY . . . . . Oregon Telecom Relay Service, 711

## Manufacturing/Engineering Technology: Computer Numerical Control (CNC) Technician Certificate of Completion

### About the Program

This three-term certificate program integrates conventional manufacturing techniques with computer numerical control (CNC) manufacturing skills. Computer aided drafting (CAD) is used as a basic tool in the manufacturing engineering process. In addition to technical training, students receive a solid education in mathematics, along with human relations and computer skills courses. Graduates typically enter the workforce as computer numerical control (CNC) technicians or computer aided design drafters. With additional on-the-job experience, this training facilitates movement into fields such as quality control inspector and CNC programmer. This certificate completes the first-year requirements for RCC's Manufacturing and Engineering Technology AAS degree program.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational

Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

## 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 manufacturing programs are:

Operate, set up, and program manual and CNC mills and lathes to print specifications.

Interpret and create mechanical blueprints to industry standards.

Follow, develop, and troubleshoot manufacturing processes and procedures.

Demonstrate the ability to adhere to personal and industry safety standards to protect personnel and equipment.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Manufacturing and Engineering 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/Engineering 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 and review the roadmap at [www.roguecc.edu/Programs/CareerPathways](http://www.roguecc.edu/Programs/CareerPathways).

## 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. 1	0-4
MEC102	Basic Hand Tools or demonstrated proficiency	0-3
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

**Total Prerequisite Credits** **0-19**

## Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
MET101	Mechanical Drafting	3
MET105	Blueprint Reading - Mechanical	3
MFG101	Introduction to Manufacturing	3
MFG116	Metrology	2
MFG121	Manufacturing Processes I	4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4 19



## Second Term

MET104	Applied Shop Practices or MTH112 Elementary Functions	3-4
MET121	CAD I: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy or WLD225 Industrial Metallurgy	3
MFG122	Manufacturing Processes II	4
MFG140	CNC Controls	2
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition	3-4
		18-20

## Third Term

MET122	CAD II: Mechanical (SolidWorks)	3
MFG123	Manufacturing Processes III	4
MFG241	CNC Programming – Mill	4
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
		14

**TOTAL PROGRAM CREDITS 51-53**

<sup>1</sup> Required for graduation.

For more information contact the Manufacturing and Engineering Technology Department:

Grants Pass or Medford ..... 541-245-7902  
Toll free in Oregon ..... 800-411-6508, Ext. 7902  
email ..... manufacturing@roguecc.edu  
Web address ..... www.roguecc.edu/manufacturing  
TTY ..... Oregon Telecom Relay Service, 711

# Manufacturing/Engineering Technology Transfer to Oregon Tech Associate of Science Degree

## About the Program

Based on a signed articulation agreement, Rogue Community College and Oregon Tech offer an Associate of Science degree for students who want to pursue a bachelor's degree in manufacturing. This degree was developed as a cooperative venture between Oregon Tech and RCC and offers knowledge and application components drawn from curriculum at both institutions.

The Associate of Science degree transfers directly into the bachelor's degree program at Oregon Tech in Manufacturing/Engineering Technology and graduates are guaranteed junior standing in the program.

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, their 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. Program learning outcomes for manufacturing programs are:

Operate, set up, and program manual and CNC mills and lathes to print specifications.

Interpret and create mechanical blueprints to industry standards.

Follow, develop, and troubleshoot manufacturing processes and procedures.

Demonstrate the ability to adhere to personal and industry safety standards to protect personnel and equipment.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## 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 four 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH95	Intermediate Algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
<b>Total Prerequisite Credits</b>		<b>0-11</b>

## First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
MFG101	Introduction to Manufacturing	3
MFG121	Manufacturing Processes I	4
—	Approved humanities electives 1	6-8
		13-15

## Second Term

LIB127	Introduction to Academic Research	1
MET121	Computer Aided Drafting I: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy	3
MTH111	College Algebra	4
WR121	English Composition I	4
		15

## Third Term

MET122	Computer Aided Drafting II: Mechanical (SolidWorks)	3
MFG241	Computer Numerical Control Programming – Mill	4
MTH112	Elementary Functions	4
WR122	English Composition II	4
		15

## Fourth Term

CS125SS/CIS125SS	Spreadsheet Applications or BA285 Advanced Business Applications: Excel	4
MTH243	Probability and Statistics	4
WLD101	Welding Fundamentals I	3
—	Social science elective 2	3-4
		14-15

**Total First Year Credits 57-60**



## Second Year Required Courses

Course No.	Course Title	Credits
<b>Fifth Term</b>		
MFG242	Computer Aided Manufacturing I: Mastercam	4
MTH244	Inferential Statistics	4
MTH251	Calculus I (Differential)	5
PH211	General Physics (Calculus Based) I with lab and recitation or PH201 General Physics I with lab and recitation	5 18
<b>Sixth Term</b>		
MFG230	Statistics and Quality Control	3
MFG243	Computer Aided Manufacturing II: Mastercam	4
MTH252	Calculus II (Integral)	5
PH212	General Physics (Calculus Based) II with lab and recitation or PH202 General Physics II with lab and recitation	5 17
<b>Seventh Term</b>		
CHEM104	Introductory Chemistry with lab and recitation or CHEM221 General Chemistry I with lab and recitation	5
SP111	Fundamentals of Public Speaking	4
WR227	Technical Writing	4
<b>Total Second Year Credits</b>		<b>48</b>
<b>TOTAL PROGRAM CREDITS</b>		<b>105-108</b>

## <sup>1</sup> Approved 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 asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design (Composition)/Basic Design (Color Theory)	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4

REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

## <sup>2</sup> Approved Social Science Electives

(Complete at least one course from the following list, 3-4 credits.)

Course No.	Course Title	Credits
ANTH110,150	Introduction to Cultural Anthropology/Archaeology	4-4
CJ100	Foundations and Ethics in Criminal Justice	4
CJ101/SOC244	Introduction to Criminology	4
CJ110	Introduction to Law Enforcement	4
CJ120	Introduction to the Judicial Process	4
CJ130	Introduction to Corrections	4
CJ201/SOC221	Juvenile Delinquency	4
CJ214	Crime, Justice and Diversity	4
CJ243/SOC243	Drugs, Crime and Addiction	4
ECON201,202	Principles of Microeconomics/Macroeconomics	4-4
GEOG110	Introduction to Cultural and Human Geography	3
GEOG120	World Regional Geography	3
HST104	World Civilizations: Prehistory - Middle Ages	4
HST105	World Civilizations: Byzantium - Present	4
HST201	U.S. History through Reconstruction	4
HST202	U.S. History: Post-Reconstruction - Present	4
IS111	Introduction to International Studies II	3
PS201,202,203	U. S. Government I, II, III	3-3-3
PSY101	Psychology of Human Relations	3
PSY119	Psychology of Personal Growth	4
PSY201,202	General Psychology I, II	4-4
PSY219	Introduction to Abnormal Psychology	4
PSY231	Human Sexuality	3
SOC204,205	Introduction to Sociology, American Society	4-4
SOC211	Social Deviance and Social Control	3
SOC213	Race and Ethnicity in the U.S.	4
SOC218	Sociology of Gender	4
SOC225	Social Problems and Solutions	4
SOC228	Environment and Society	4
SOC230	Introduction to Gerontology	4

For more information contact the Manufacturing/Engineering Technology Department:  
 Grants Pass or Medford ..... 541-245-7902  
 Toll free in Oregon ..... 800-411-6508, Ext. 7902  
 email ..... manufacturing@rogucecc.edu  
 Web address ..... www.rogucecc.edu/manufacturing  
 TTY ..... Oregon Telecom Relay Service, 711

## Massage Therapy Certificate of Completion

### Fall 2020 Program Admission

### 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, the Federation of State Massage Therapy Board's Licensing Examination and National Certification Board for Therapeutic Massage and Body Work (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.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational



Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

## 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 massage therapy are:

Communicate effectively in a professional manner with clients, members of the healthcare team, and others.

Demonstrate and document various assessment processes, recognizing health and non-health within the body.

Demonstrate ability to research pathologies and utilize clinical judgment using knowledge and problem-solving skills when creating and implementing a treatment plan.

Provide care for diverse populations of clientele and demonstrate a personal commitment to service and the profession of massage therapy.

Demonstrate ethical/legal behaviors and boundaries in the massage profession, identify and apply components of a business plan and the ability to bill insurance cases.

Utilize universal precautions and maintain a high level of sanitization of equipment and the facility.

Utilize a variety of soft tissue modalities to aid in the health and healing of one's body, and recognize how those modalities and massage skills combine to create different effects to meet the goals of clientele.

Use safe, efficient and effective body mechanics for injury prevention of the therapist and client as well as utilize, demonstrate, and instruct the client in self-care techniques.

Identify and describe components of the body systems, how homeostasis is maintained, effects of massage on the differing systems, and demonstrate safe movement through range of motion.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

Massage Therapy is a limited-entry program. Interested applicants must attend a mandatory massage therapy information meeting. The timeline for submitting program application materials for fall 2019 admission is April 1-June 24, 2019. 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 and alcohol test, and a criminal background check may be required for 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.

## Prerequisites

Course No.	Course Title	Credits
CG100	College Success and Survival or transcript showing at least 30 college credits within any academic year and at least a 2.0 cumulative GPA	0-2
MTH20	Pre-algebra or designated placement test score	0-4
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations <sup>1</sup>	3
WR115	Introduction to Expository Writing or	

150

BT113 Business English I or higher level composition <sup>1</sup> 3-4

**Total Prerequisite Credits 6-13**

## Recommended Preparatory Courses

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
BI211	General Biology I with lab	4

## Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
HE261	CPR/Basic Life Support Provider or HE252 First Aid/CPR	1-3
MTH63	Applied Algebra I BT160 Business Math or higher level math OR MTH60 Fundamentals of Algebra I	4
—	Approved program elective(s)	0-2
		5-13

## Second Term

BI121	Elementary Anatomy and Physiology I with lab or BI231 Anatomy and Physiology I with lab <sup>2</sup>	4
MT100	Massage I – Basic Swedish	3
MT101	Asian Bodywork I	2
MT108	Kinesiology for Massage Therapists with lab	4
—	Approved program elective(s)	0-4
		13-17

## Third Term

BI122	Elementary Anatomy and Physiology II with lab or BI232 Anatomy and Physiology II with lab and BI233 Anatomy and Physiology III with lab <sup>2</sup>	4-8
MT102	Massage II – Swedish	2
MT105	Massage Therapeutics: Hydrotherapy and Massage for Cancer Patients	3
MT106	Integrated Studies in Massage I (Upper Body)	2
MT109	Pathology for Massage Therapists	4
MT121	Asian Bodywork II	2
		17-21

## Fourth Term

MT103	Massage III – Swedish	2
MT107	Integrated Studies in Massage II (Lower Body)	2
MT116	Massage Exam Review	2
MT120A	Business for Massage Therapists	1
MT120B	Business for Massage Therapists	2
MT180	Cooperative Work Experience/Massage Practicum	1
MT180S	Cooperative Work Experience/Massage Seminar	1
—	Approved program elective(s)	0-4
		11-15

**TOTAL PROGRAM CREDITS 50-60**

## Approved Program Electives

(a maximum of 4 credits allowed)

Course No.	Course Title	Credits
BA109	Ready, Set, Work: Techniques for Landing a Job	2
BT250	Entrepreneurship	3
MT111	Sport Massage	2
MT112	Massage for Pregnancy and Infant/Child	2
MT113	Myofascial Release	2
MT114	Massage Therapy Study Skills Lab	1



MT115	Trigger Point Therapy	2
MT117	Body Maintenance for Massage Therapists	2
MT118	Deep Tissue Massage	2
MT119	Introduction to Craniosacral Therapy	2
MT180	Cooperative Work Experience/Massage	variable
MT199	Selected Topics: Massage	variable

<sup>1</sup> Required for graduation. Students who have successfully completed the 3-credit version of BT113 will have met the writing requirement.

<sup>2</sup> BI211 is a prerequisite for BI231. If BI231 is taken, students must also complete BI232 and BI233.

For more information contact the Massage Therapy Department:

Grants Pass or Medford ..... 541-956-7066  
Toll free in Oregon ..... 800-411-6508, Ext. 7066  
email ..... massage@rogucecc.edu  
Website ..... www.rogucecc.edu/massage  
TTY ..... Oregon Telecom Relay Service, 711

## Massage Therapy: Entry-level Therapist Career Pathways Certificate

### Fall 2020 Program Admission

#### About the Program

The Entry-level Massage Therapist three-term career pathways certificate meets the requirements for licensure application to the Oregon Board of Massage Therapists and the Federation of State Massage Therapy Board's Licensing Examination and National Certification Board for Therapeutic Massage and Body Work (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 massage therapy programs are:

Communicate effectively in a professional manner with clients, members of the healthcare team, and others.

Demonstrate and document various assessment processes, recognizing health and non-health within the body.

Demonstrate ability to research pathologies and utilize clinical judgment using knowledge and problem-solving skills when creating and implementing a treatment plan.

Provide care for diverse populations of clientele and demonstrate a personal commitment to service and the profession of massage therapy.

Demonstrate ethical/legal behaviors and boundaries in the massage profession, identify and apply components of a business plan and the ability to bill insurance cases.

Utilize universal precautions and maintain a high level of sanitization of equipment and the facility.

Utilize a variety of soft tissue modalities to aid in the health and healing of one's body, and recognize how those modalities and massage skills combine to create different effects to meet the goals of clientele.

Use safe, efficient and effective body mechanics for injury prevention of the therapist and client as well as utilize, demonstrate, and instruct the client in self-care techniques.

Identify and describe components of the body systems, how homeostasis is maintained, effects of massage on the differing systems, and demonstrate safe movement through range of motion.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.rogucecc.edu/GainfulEmployment](http://www.rogucecc.edu/GainfulEmployment).

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

Massage Therapy is a limited-entry program. Interested applicants must attend a mandatory massage therapy information meeting. The timeline for submitting program application materials for fall 2019 admission is April 1 to June 24, 2019. 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 and alcohol test, and a criminal background check may be required for 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.

#### Massage Therapy: Career Pathways Certificate (44 credits)

- Massage therapist – Entry-level therapist <sup>1</sup>

#### Massage Therapy: Certificate of Completion (50-60 credits)

- Massage therapist <sup>1</sup>

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.rogucecc.edu/CareerPathways/](http://www.rogucecc.edu/CareerPathways/)

### Completion 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.

### Prerequisites

Course No.	Course Title	Credits
CG100	College Success and Survival or transcript showing at least 30 college credits within any academic year and at least a 2.0 cumulative GPA	0-2
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

**Total Prerequisite Credits 0-14**

### Recommended Preparatory Courses

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3

### Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
BI121	Elementary Anatomy and Physiology I with lab	4
MT100	Massage I – Basic Swedish	3
MT101	Asian Bodywork I	2
MT108	Kinesiology for Massage Therapists with lab	4
—	Approved program elective	2
		<b>15</b>



## Second Term

BI122	Elementary Anatomy and Physiology II with lab	4
MT102	Massage II – Swedish	2
MT105	Massage Therapeutics: Hydrotherapy and Massage for Cancer Patients	3
MT106	Integrated Studies in Massage I (Upper Body)	2
MT109	Pathology for Massage Therapists	4
		15

## Third Term

HE261	CPR/Basic Life Support Provider	1
MT103	Massage III – Swedish	2
MT107	Integrated Studies in Massage II (Lower Body)	2
MT116	Massage Exam Review	2
MT120A	Business for Massage Therapists	1
MT120B	Business for Massage Therapists	2
MT121	Asian Bodywork II	2
MT180	Cooperative Work Experience/Massage Practicum	1
MT180S	Cooperative Work Experience/Massage Seminar	1
		14

## TOTAL PROGRAM CREDITS

44

## Approved Program Electives

(2 credits required)

Course No.	Course Title	Credits
MT111	Sport Massage	2
MT112	Massage for Pregnancy and Infant/Child	2
MT113	Myofascial Release	2
MT114	Massage Therapy Study Skills Lab	1
MT115	Trigger Point Therapy	2
MT117	Body Maintenance for Massage Therapists	2
MT118	Deep Tissue Massage	2
MT119	Introduction to Craniosacral Therapy	2
MT180	Cooperative Work Experience/Massage	variable
MT199	Selected Topics: Massage	variable

For more information contact the Massage Therapy Department:

Grants Pass or Medford	541-956-7066
Toll free in Oregon	800-411-6508, Ext. 7066
email	massage@roguecc.edu
Website	www.roguecc.edu/massage
TTY	Oregon Telecom Relay Service, 711

## Math Interest

### Associate of Arts Oregon Transfer Degree

A total of 90 credits are required to complete the Associate of Arts Oregon Transfer (AAOT) degree and 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 graduation guide 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 math major vary at each university.

Course No.	Course Title	Credits	AAOT Category
MTH111	College Algebra	4	Math
MTH112	Elementary Functions	4	Math
MTH211,212,213	Fundamentals of Elementary Math I, II, III *	5	Elective
MTH243	Probability & Statistics	4	Math
MTH251	Calculus I	5	Math
MTH252	Calculus II	5	Math
MTH253	Calculus III	5	Math
MTH254	Vector Calculus	5	Math
MTH256	Differential Equations	5	Math

152

MTH261	Linear Algebra with lab	5	Math
WR227	Technical Writing	4	Elective

\*For students interested in teaching.

Note: Two math courses required between the Science and Math categories. Additional courses would count as electives.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	www.eou.edu
Oregon State University	www.oregonstate.edu
Oregon Tech	www.oit.edu
Portland State University	www.pdx.edu
Southern Oregon University	www.sou.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

## Mechatronics

### Associate of Applied Science Degree

## About the Program

Today's manufacturing industry uses robots and other advanced fabrication and assembly equipment to produce a wide variety of products. All of these systems rely on digital controls including programmable logic controllers. Mechatronics technicians calibrate, troubleshoot, and repair both the equipment and the controllers. Mechatronic technicians in southern Oregon are needed by manufacturers in the food processing, wood products, and metal fabrication industries. Typical positions include industrial engineering technician and manufacturing maintenance technician. The program can also provide preparation for apprenticeship programs leading to a variety of licensed journey positions.

The Mechatronics degree program trains students to be proficient in troubleshooting mechanical, electrical, pneumatic, and hydraulic equipment and the digital systems that control them. It prepares students for positions in the highly technical manufacturing environment installing, troubleshooting, programming, and maintaining a variety of types of production equipment. Today's manufacturing environment uses an extensive array of programmable controls, including programmable logic controllers (PLCs), as well as other single function controls using firmware and analog applications. Students learn foundational skills in math, fabrication, and repair as well as hydraulics, electronics, troubleshooting and programming, preparing students for numerous positions in a wide variety of manufacturing facilities. Elective options allow students to focus on either a mechanical or electronics emphasis.

Most of the courses in the program are hands-on, open-lab courses supported by online instruction providing students exceptional flexibility when scheduling around family, employment, or other commitments.

## 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 mechatronics programs are:

Install, troubleshoot, maintain and repair mechatronic systems using industry-standard tools, practices and procedures.

Assist in design and rebuilding projects.

Follow, develop, and troubleshoot manufacturing processes and procedures.

Organize, interpret, and use technical information and documentation.

Promote energy efficiency and industrial sustainability.

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

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

Demonstrate life-long learning towards professional growth.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with the Manufacturing/Engineering Technology Department chair’s 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. Each College Now credit student must meet with the program coordinator to determine placement.

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.

Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
MEC102	Basic Hand Tools or demonstrated proficiency	0-3
MTH63	Applied Algebra I or higher level math <sup>1</sup>	4
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition <sup>1</sup>	3-4
Total Prerequisite Credits		7-15

First Year Required Courses

Course No.	Course Title	Credits
First Term		
EET104	Fundamentals of Manufacturing Electronics	4
MEC103	Industrial Safety	1
MEC110	AC/DC Electrical Systems for Manufacturing	3
MEC125	Pneumatics I	3
MET105	Blueprint Reading – Mechanical	3
MFG116	Metrology	2
		16
Second Term		
MEC115	Electrical Control Systems and Sensors for Manufacturing	3
MEC124	Hoisting and Rigging	3
MFG121	Manufacturing Processes I	4
WLD111	Technology of Industrial Welding I or WLD101 Welding Fundamentals I and WLD102 Welding Fundamentals II	6
		16
Third Term		
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
HE112	Emergency First Aid	1
MEC130	Hydraulics I	3
MEC135	Mechanical Drives I	4
MEC149	Electric Motor Control	4
		15
Total First Year Credits		47

Second Year Required Courses

Course No.	Course Title	Credits
Fourth Term		
MEC150	PLC Motor Control	3
MEC231	Hydraulics II	4
MEC236	Mechanical Drives II	4
—	Approved program elective	3-9
		14-20
Fifth Term		
GS104	Physical Science with lab or approved program elective	4
LIB127	Introduction to Academic Research, or LIB101 Introduction to Information Literacy	1
MEC151	Programming PLC’s I	3
WR121	English Composition I or BT114 Business English II or higher level composition	4
—	Approved program elective	2-8
		14-20
Sixth Term		
MEC152	Programming PLC’s II	3
MFG280	Cooperative Work Experience/Manufacturing	4
—	Approved program electives	8-14
		15-21
Total Second Year Credits		43-61
TOTAL PROGRAM CREDITS		90-108
Approved Program Electives		
(13-31 credits required)		
Mechanical Focus (Hydraulics, PNL, Drives)		
Course No.	Course Title	Credits
MEC114	Safety for Industry	3
MEC116	Quality Practices and Measurement	3
MEC118	Manufacturing Processes and Production	3
MEC120	Maintenance Awareness	4
MEC140	Green Production	2
MEC199	Special Topics: Mechatronics	Var
MEC226	Pneumatics II	3
MEC228	Pneumatic Fittings and Troubleshooting	4
MEC233	Hydraulic Troubleshooting	4
MEC238	Mechanical Drives III	4
MET101	Mechanical Drafting	3
MFG122	Manufacturing Processes II	4
MFG211	Manufacturing Power and Control Electronics	4
WLD112	Technology of Industrial Welding II	6
WLD250A	Selected Topics in Welding: FCAW	2
WLD250B	Selected Topics in Welding: GTAW	2
WLD250C	Selected Topics in Welding: SMAW	2
WLD250D	Selected Topics in Welding: GMAW	2
WLD250P	Selected Topics in Welding: CNC Plasma Cutting	3
Electronics Focus		
Course No.	Course Title	Credits
EET125	Electronics Fundamentals I (DC)	6
EET129	Introduction to Embedded Systems	3
EET130	Digital Fundamentals I	6
EET131	Digital Fundamentals II	6
Robotics Focus		
Course No.	Course Title	Credits
MEC240	Robotics I	3



<sup>1</sup> Required for graduation.

For more information contact the Manufacturing and Engineering Technology Department:

Grants Pass or Medford ..... 541-245-7902

Toll free in Oregon ..... 800-411-6508, Ext. 7902

email ..... manufacturing@rogucecc.edu

Web address ..... www.rogucecc.edu/manufacturing

TTY ..... Oregon Telecom Relay Service, 711

## Mechatronics: Mechatronics Specialist Certificate of Completion

### About the Program

Today's manufacturing industry uses robots and other advanced fabrication and assembly equipment to produce a wide variety of products. All of these systems rely on digital controls including programmable logic controllers. Mechatronics technicians calibrate, troubleshoot, and repair both the equipment and the controllers. Mechatronic technicians in southern Oregon are needed by manufacturers in the food processing, wood products, and metal fabrication industries.

The Mechatronics Specialist three-term certificate prepares students for entry-level positions in today's fast-paced manufacturing environment. Typical positions for graduates of the certificate program include maintenance technician and mechatronics assistant. Completion of the certificate also completes the first three terms of the Mechatronics AAS degree. Certificate completion can also lead to entry into apprenticeship training.

Foundational skills in math, technical writing, safety, workplace survival, and workplace expectations are combined with welding, hydraulics, and other applied courses. Most of the courses in the program are hands-on, open-lab courses supported by online instruction providing students exceptional flexibility when working around family, employment, or other commitments.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.rogucecc.edu/GainfulEmployment](http://www.rogucecc.edu/GainfulEmployment).

### 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 mechatronics programs are:

Install, troubleshoot, maintain and repair mechatronic systems using industry-standard tools, practices and procedures.

Assist in design and rebuilding projects.

Follow, develop, and troubleshoot manufacturing processes and procedures.

Organize, interpret, and use technical information and documentation.

Promote energy efficiency and industrial sustainability.

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

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

Demonstrate life-long learning towards professional growth.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with the Manufacturing/Engineering Technology Department chair's

recommendation. 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. 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 department chair to determine placement.

### 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.

### Prerequisites

Course No.	Course Title	Credits
CCS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CIS120/CIS120 or above, or documented proficiency within the past ten years. <sup>1</sup>	0-4
MEC102	Basic Hand Tools or demonstrated proficiency	0-3
MTH63	Applied Algebra I or higher level math <sup>1</sup>	4
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition <sup>1</sup>	3-4

**Total Prerequisite Credits 7-15**

### First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
EET104	Fundamentals of Manufacturing Electronics	4
MEC103	Industrial Safety	1
MEC110	AC/DC Electrical Systems for Manufacturing	3
MEC125	Pneumatics I	3
MET105	Blueprint Reading – Mechanical	3
MFG116	Metrology	2
		16

#### Second Term

MEC115	Electronic Control Systems	3
MEC124	Hoisting and Rigging	3
MFG121	Manufacturing Processes I	4
WLD111	Technology of Industrial Welding I or WLD101 Welding Fundamentals I and WLD102 Welding Fundamentals II	6
		16

#### Third Term

BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
HE112	Emergency First Aid	1
MEC130	Hydraulics I	3
MEC135	Mechanical Drives I	4
MEC149	Electric Motor Control	4
		15

**TOTAL PROGRAM CREDITS 47**

<sup>1</sup> Required for graduation.

For more information contact the Manufacturing and Engineering Technology Department:

Grants Pass or Medford ..... 541-245-7902

Toll free in Oregon ..... 800-411-6508, Ext. 7902

email ..... manufacturing@rogucecc.edu

Web address ..... www.rogucecc.edu/manufacturing

TTY ..... Oregon Telecom Relay Service, 711



# Mechatronics: Maintenance Technician Career Pathways Certificate

## About the Program

Today's manufacturing industry uses robots and other advanced fabrication and assembly equipment to produce a wide variety of products. All of these systems rely on digital controls including programmable logic controllers. Mechatronics technicians calibrate, troubleshoot, and repair both the manufacturing equipment and the controllers. Mechatronic technicians in southern Oregon are needed by manufacturers in the food processing, wood products, and metal fabrication industries.

The Mechatronics Specialist Career Pathways two-term certificate program is designed to recognize students' accomplishments in manufacturing, welding, and/or electronics, and prepare them for entry-level work experiences in the mechatronics field. Students begin with applied mathematics, industrial safety and tool use, and can then select from electronics, mechanical technology, welding, and other electives to complete the pathways certificate. Credits from this certificate will transfer to the one-year Mechatronics Specialist Certificate and/or the Mechatronics Associate of Applied Science degree.

Foundational skills in math, technical writing, safety, workplace survival, and workplace expectations are combined with welding, hydraulics, and other applied courses. Most of the courses in the program are hands-on, open-lab courses supported by online instruction providing students exceptional flexibility when working around family, employment, or other commitments.

## 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 mechatronics programs are:

Install, troubleshoot, maintain and repair mechatronic systems using industry-standard tools, practices and procedures.

Assist in design and rebuilding projects.

Follow, develop, and troubleshoot manufacturing processes and procedures.

Organize, interpret, and use technical information and documentation.

Promote energy efficiency and industrial sustainability.

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

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

Demonstrate life-long learning towards professional growth.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with the Manufacturing/Engineering Technology Department chair's recommendation. 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. 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 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 and review the roadmap at [www.roguecc.edu/Programs/CareerPathways](http://www.roguecc.edu/Programs/CareerPathways).

### Career Pathways Certificate (CPC) — Mechatronics: Maintenance Technician (12-19 credits)

- Installation & Maintenance Helper <sup>1</sup>
- Machinist Helper <sup>1</sup>

### Certificate of Completion (CC) — Mechatronics Specialist (47 credits)

- Mechatronics Technician <sup>1</sup>
- Assembly Technician <sup>1</sup>
- Engineering Technician <sup>1</sup>
- Manufacturing Technician <sup>1</sup>
- Calibration Technician <sup>1</sup>

### Associate of Applied Science (AAS) — Mechatronics (90-108 credits)

- Mechanical Engineering Technician <sup>1</sup>
- Industrial Engineering Technician <sup>1</sup>
- Manufacturing Maintenance Technician <sup>1</sup>

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.roguecc.edu/CareerPathways/](http://www.roguecc.edu/CareerPathways/)

## Completion 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MEC102	Basic Hand Tools or demonstrated proficiency	0-3
MTH63	Applied Algebra I or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

### Total Prerequisite Credits

0-19

## Approved Program Electives

(choose a minimum of 12 credits from the list)

Course No.	Course Title	Credits
EET104	Fundamentals of Manufacturing Electronics	4
EET129	Introduction to Embedded Systems	3
MET101	Mechanical Drafting	3
MET105	Blueprint Reading – Mechanical	3
WLD111	Technology of Industrial Welding or WLD101 Welding Fundamentals I and WLD102 Welding Fundamentals II	6

### TOTAL PROGRAM CREDITS

12-19

For more information contact the Manufacturing and Engineering Technology Department:

Grants Pass or Medford . . . . . 541-245-7902  
Toll free in Oregon . . . . . 800-411-6508, Ext. 7902  
email . . . . . [manufacturing@roguecc.edu](mailto:manufacturing@roguecc.edu)  
Web address . . . . . [www.roguecc.edu/manufacturing](http://www.roguecc.edu/manufacturing)  
TTY . . . . . Oregon Telecom Relay Service, 711  
TTY . . . . . Oregon Telecom Relay Service, 711



# Mechatronics: Production Technician Career Pathways Certificate

## About the Program

The purpose of the Production Technician program is to recognize through certification individuals who demonstrate mastery of the core competencies of manufacturing production at the front-line (entry-level through front-line supervisor) through successful completion of the certification assessments. The goal of the program is to raise the level of performance of production workers both to assist the individuals in finding higher-wage jobs and to help employers ensure their workforce increases the company's productivity and competitiveness.

The Production Technician program consists of five individual certificate modules: Safety; Quality Practices & Measurement; Manufacturing Processes & Production; Maintenance Awareness and Green Production. Students must earn the first four certificates to receive the full Certified Production Technician certification. (Note: At this time Green is not required for full-CPT certification.)

## 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 Career Pathways Certificate are:

Assist in design and rebuilding projects.

Follow, develop, and troubleshoot manufacturing processes and procedures.

Organize, interpret, and use technical information and documentation.

Promote energy efficiency and industrial sustainability.

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

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

Demonstrate life-long learning towards professional growth.

## 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

## Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with the Manufacturing/Engineering Technology Department chair's recommendation. 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. 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 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 and review the roadmap at [www.roguecc.edu/Programs/CareerPathways](http://www.roguecc.edu/Programs/CareerPathways).

### Career Pathways Certificate (CPC) — Mechatronics: Maintenance Technician (12-19 credits)

- Installation & Maintenance Helper <sup>1</sup>
- Machinist Helper <sup>1</sup>

### Certificate of Completion (CC) — Mechatronics Specialist (47 credits)

- Mechatronics Technician <sup>1</sup>
- Assembly Technician <sup>1</sup>
- Engineering Technician <sup>1</sup>
- Manufacturing Technician <sup>1</sup>
- Calibration Technician <sup>1</sup>

### Associate of Applied Science (AAS) — Mechatronics (90-108 credits)

- Mechanical Engineering Technician <sup>1</sup>
- Industrial Engineering Technician <sup>1</sup>
- Manufacturing Maintenance Technician <sup>1</sup>

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.roguecc.edu/CareerPathways/](http://www.roguecc.edu/CareerPathways/)

## Completion 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.

## Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MEC102	Basic Hand Tools or demonstrated proficiency	0-3
MTH63	Applied Algebra I or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

**Total Prerequisite Credits 0-19**

## Required Courses

Course No.	Course Title	Credits
MEC114	Safety for Industry	3
MEC116	Quality Practices and Measurements	3
MEC118	Manufacturing Processes and Production	3
MEC120	Maintenance Awareness	4

## Optional Elective

Course No.	Course Title	Credits
MEC140	Green Production	2

**TOTAL PROGRAM CREDITS 13-15**

For more information contact the Manufacturing and Engineering Technology Department:

Grants Pass or Medford..... 541-245-7902

Toll free in Oregon ..... 800-411-6508, Ext. 7902

email..... [manufacturing@roguecc.edu](mailto:manufacturing@roguecc.edu)

Web address ..... [www.roguecc.edu/manufacturing](http://www.roguecc.edu/manufacturing)

TTY ..... Oregon Telecom Relay Service, 711

# Medical Administrative Assistant Certificate of Completion

## About the Program

The two-term Medical Administrative Assistant program will prepare students for entry-level employment in a healthcare setting. Medical administrative assistants are in many ways similar to other administrative assistants, but they have specialized knowledge about healthcare and the specifics about the type of practice for which they work. They are an essential part of running an efficient medical practice. Effective communication with both patients and medical staff, medical terminology, insurance and billing cycles, and general office procedures are included in this program. Students completing this program will be prepared to take the national Certified Medical Administrative Assistant (CMAA) exam, although certification is not an employment requirement at this time.



The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

## 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 Administrative Assistant Certificate program are:

Perform health care office procedures that include scheduling, bookkeeping, billing and payment collection, utilizing a working knowledge of medical terminology, body systems, common medications, electronic health records and insurance.

Educate, advocate for, and collaborate with patients and the health care team within the scope of practice.

Compose, edit, proofread, and accurately produce health care and other business documents using appropriate software and equipment within specified timelines.

Integrate computer and communication technologies, as well as critical thinking skills, to accomplish health care office tasks.

Store, retrieve, distribute, and manage information and supplies as per clinic protocol.

Uphold legal and ethical standards and adhere to principles of patient confidentiality within the health care and community environment as defined by HIPAA.

Demonstrate professionalism through acceptable attitude, organization and time management skills, and attire.

Apply verbal, nonverbal, and written communication principles and skills effectively and compassionately within a team setting.

Maintain industry standards of quality control and safety principles in the workplace.

## Entry Requirements

This is a competitive-entry program because of limited clinical space in medical offices as well as the delicate balance of job opportunities in medical administrative assisting. Enrollment is limited.

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 be required to enroll in classes that would increase their employability and success.

Cohort students must meet certain minimum academic requirements (MTH20, RD90 and WR90 or designated placement scores) before starting the program. Students must complete specific health and immunization requirements and background check prior to starting the program, and a drug screen prior to starting practicum experience. This screening process has an associated fee. Contact the Allied Health Department for more information. Visit [www.roguecc.edu/alliedhealth/maa](http://www.roguecc.edu/alliedhealth/maa) for program application details.

## 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 graduation guide or catalog for that year. Students must complete all courses on this graduation guide 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.

## Prerequisites

Course No.	Course Title	Credits
BT113	Business English I or WR115 Introduction to Expository Writing or higher level composition	0-4
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
HE252	First Aid/CPR or HE112 Emergency First Aid <sup>1</sup> and HE261 CPR/Basic Life Support Provider	2-3
MTH20	Pre-algebra I or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

**Total Prerequisite Credits** **2-23**

## Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
AH100	Medical Terminology: Introduction	3
AH105	Communication and Professional Behavior	2
AH120	Medical Administrative Assistant I	4
BA109	Ready, Set, Work: Techniques for Landing a Job	2
—	Approved program elective(s)	0-4
		11-15

### Second Term

AH121	Medical Administrative Assistant II	4
AH123	Legal and Ethical Issues for Medical Personnel	2
AH130	Concepts in Medical Insurance and Billing	4
AH170	Medical Administrative Assistant: Practicum & Seminar	2
		12

**TOTAL PROGRAM CREDITS** **23-27**

## Approved Program Electives <sup>2</sup>

(0-4 credits allowed)

Course No.	Course Title	Credits
BI100SB	Biology of Human Body Systems	3
BT111	Conflict Management	2
CG144	Introduction to Assertiveness	1
CG155	Exploring Careers in Health Care	3
EMS165	Introduction to Pharmacology for Health Occupations	2
HCI120	Introduction to the Health Care Industry	3
SP100	Basic Communication	3
SPAN101,102,103	First Year Spanish I, II, III	4-4-4
SRV101	Service Learning	1
WR110	Understanding English Grammar	2

<sup>1</sup> American Heart Association (AHA) certification must remain current for the duration of the program.

<sup>2</sup> Additional prerequisites may apply.

For more information regarding the program and selection process, contact the Allied Health Occupations Department:

Grants Pass or Medford. . . . . 541-245-7841  
Toll free in Oregon . . . . . 800-460-6766, Ext. 7841  
email . . . . . [alliedhealth@roguecc.edu](mailto:alliedhealth@roguecc.edu)  
Web address . . . . . [www.roguecc.edu/alliedhealth/maa](http://www.roguecc.edu/alliedhealth/maa)  
TTY . . . . . Oregon Telecom Relay Service, 711



## Medical Assistant Certificate of Completion

### About the Program

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, under the supervision of a physician, perform or assist in taking patient vitals, front office medical administrative tasks, back office clinical procedures, and ECG testing. Medical assistants are the face of medical offices and are often the first people with whom patients come into contact. They may perform basic medical coding and billing, scheduling, and patient flow and screening. Other duties may include point of care testing, phlebotomy and specimen collection. Medical assistants are responsible for recording patient information into the electronic medical records systems and must be able to master various computer software programs.

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, and the American Society of Clinical Pathologists (ASCP) phlebotomy certification exam. Since January 2015, most medical practices require medical assistants to have certification. The phlebotomy certification is not required but will strongly improve employability. The curriculum for the program is based on the standards and guidelines for the CMA and ASCP phlebotomy certifications, which can be reviewed on the following websites: NHA [www.nhanow.com](http://www.nhanow.com) and ASCP [www.ascp.org/](http://www.ascp.org/). Students attend classes within a cohort structure, and courses are offered during the daytime or evening based on initial application preference and availability.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment)

### 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 program are:

Skillfully perform and document routine clinical procedures according to current office protocol.

Perform and document routine administrative procedures according to current office protocol.

Collect, process, and test diagnostic specimens.

Maintain industry standards of quality control and safety principles in the workplace.

Uphold legal and ethical standards and confidentiality for patient privacy.

Effectively apply verbal, nonverbal, and written communication principles and skills in the workplace.

Demonstrate professionalism through acceptable attitude, organization and time management skills, and attire.

Students may opt to continue their education by transferring to Oregon Tech for a bachelor's degree in Healthcare Management with a clinical option or by completing additional requirements and applying to the Nursing program at either RCC or Oregon Health and Science University.

### Entry Requirements/Application Process

This is a competitive-entry program because of limited clinical space in medical offices as well as the delicate balance of job opportunities in medical assisting. Enrollment is limited. 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 be required to enroll in classes that would increase their employability and success. Cohort students must meet certain minimum academic requirements before the program start date.

Program admission occurs two times per year. Visit [www.roguecc.edu/alliedhealth/ma](http://www.roguecc.edu/alliedhealth/ma) for program application details. Students must complete specific health and immunization requirements and background check prior to starting the program, and a drug screen prior to starting practicum experience. This screening process has an associated fee. Contact the Allied Health Department for more information.

### 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 graduation guide or catalog for that year. Students must complete all courses on this graduation guide 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 a the equivalent of a "C" or better grade.

### Prerequisites to Cohort Acceptance

Course No.	Course Title	Credits
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations <sup>1</sup>	3
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
HE252	First Aid/CPR or HE112 Emergency First Aid <sup>1,2</sup> and HE261 CPR/Basic Life Support Provider	2-3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I <sup>1</sup>	4
WR115	Introductory to Expository Writing or BT113 Business English I 1 or higher level composition class	3-4

**Total Prerequisite to Cohort Credits 12-18**

### Required Core Courses

Course No.	Course Title	Credits
<b>First Term</b>		
AH100	Medical Terminology: Introduction	3
AH101	Medical Assistant: Administrative	3
AH102	Medical Assistant: Clinical	3
AH123	Legal and Ethical Issues for Medical Personnel	2
BI100SB	Biology of Human Body Systems <sup>3</sup>	3
DA150	Introduction to Practicum and Seminar <sup>4</sup>	1
		15
<b>Second Term</b>		
AH103	Medical Assistant: Specialty	3
AH104	Phlebotomy	3
AH105	Communication and Professional Behavior	2
AH110	Medical Terminology: Clinical	3
AH170	Medical Assistant Practicum and Seminar	4
		15
<b>Third Term</b>		
AH171	Medical Assistant Practicum and Seminar	8
EMS160	Electrocardiogram (ECG) Interpretation	2
EMS165	Introduction to Pharmacology for Health Occupations	2
—	Approved program elective(s)	3
		15

**TOTAL PROGRAM CREDITS 45**



## Approved Program Electives

(3 credits required):

Course No.	Course Title	Credits
BT111	Conflict Management	2
CG144	Introduction to Assertiveness	1
CG155	Exploring Careers in Health Care	3
HCI120	Introduction to the Health Care Industry	3
MTH64	Pharmacy Calculations	2
SP100	Basic Communication	3
SRV101	Service Learning	1

<sup>1</sup> Required for graduation.

<sup>2</sup> American Heart Association (AHA) certification must remain current for the duration of the program.<sup>3</sup>

<sup>3</sup> Students who have completed either BI121 and BI122 or BI231, BI232, and BI233 (the entire sequence of either series) with an equivalent "C" or better grade do not need to take BI100SB.

<sup>4</sup> Prerequisites for DA150 waived for non-Dental students.

For more information regarding the program and selection process, contact the Allied Health Occupations Department:

Grants Pass or Medford . . . . . 541-245-7841  
Toll free in Oregon . . . . . 800-460-6766, Ext. 7841  
email . . . . . alliedhealth@roguecc.edu  
Web address . . . . . www.roguecc.edu/AlliedHealth/MA  
TTY . . . . . Oregon Telecom Relay Service, 711

## Medical Assistant: Phlebotomy Career Pathways Certificate

### About the Program

The phlebotomy program is a one-term program that prepares students to become licensed 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.

Classes will be delivered in the evening and online. Successful completion of the program prepares students to sit for the National Healthcareer Association (NHA) phlebotomy certification exam. 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 [www.hanow.com](http://www.hanow.com).

### 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: Phlebotomy Career Pathway Certificate program are:

Draw blood from patients in preparation for medical testing in a variety of medical settings.

Demonstrate workplace skills of attention to detail, manual dexterity, work under pressure, and show excellent communication and interpersonal skills.

Prepare to take the NHA Phlebotomy exam.

### Entry Requirements/Application Process

Program admission occurs once per year. Visit [www.roguecc.edu/alliedhealth](http://www.roguecc.edu/alliedhealth) for program application details. All program prerequisite/preparatory courses must be completed with a grade of "C"

or better by the start of the program to be considered eligible. All applications will be date stamped and reviewed in the order received. Applicants will be selected by committee on criteria developed in advance.

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 be required to enroll in classes that would increase their employability and success.

### 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.

#### Medical Assistant: Phlebotomy — Career Pathways Certificate (13 credits)

- Phlebotomist <sup>1</sup>

#### Medical Assistant — Certificate of Completion (45 credits)

- Medical Assistant (MA) <sup>1</sup>

#### Health Care Management with Clinical options, OT — Bachelor of Science articulated with RCC's Medical Assistant certificate

- Medical and health services manager <sup>1</sup>

<sup>1</sup> For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at [www.roguecc.edu/CareerPathways/](http://www.roguecc.edu/CareerPathways/)

### Graduation 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 graduation guide or catalog for that year. Students must complete all courses on this graduation guide 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.

### Prerequisites

Course No.	Course Title	Credits
CCS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CIS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
HE252	First Aid/CPR or HE112 Emergency First Aid <sup>1</sup> and HE261 CPR/Basic Life Support Provider	2-3
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

**Total Prerequisite Credits** **2-15**

### Required Core Courses

Course No.	Course Title	Credits
<b>First Term</b>		
AH100	Medical Terminology: Introduction	3
AH104	Phlebotomy	3
AH105	Communication and Professional Behavior	2
AH170	Medical Assistant Practicum and Seminar	2
BI100SB	Biology of Human Body Systems <sup>2</sup>	3

**TOTAL PROGRAM CREDITS** **13**



<sup>1</sup> American Heart Association (AHA) certification must remain current for the duration of the program.

<sup>2</sup> Students who have completed either BI121 and BI122 or BI231, BI232, and BI233 (the entire sequence of either series) with an equivalent "C" or better grade do not need to take BI100SB.

For more information regarding the program and selection process, contact the Allied Health Department:

Grants Pass or Medford. . . . . 541-245-7841  
Toll free in Oregon . . . . . 800-460-6766, Ext. 7841  
email. . . . . alliedhealth@rogucecc.edu  
Web address . . . . . www.rogucecc.edu/phlebotomy  
TTY . . . . . Oregon Telecom Relay Service, 711

## Medical Coding Specialist Certificate of Completion

### About the Program

The Medical Coding Specialist three-term certificate program prepares students for work in entry-level coding positions in outpatient healthcare settings. For the rapidly expanding field, students will focus on developing an understanding of the concepts of the billing cycle, the language of medicine, and the ability to apply both to professional coding standards. Instruction concentrates on the areas of anatomy and physiology, medical terminology, pharmacology, laboratory medicine, medical finance, and coding. Coders are required to extract medical documentation from patients' charts and correlate the diagnosis and procedures performed into numerical code numbers. Students completing this program will be prepared to take the Certified Professional Coder (CPC) exam through the AAPC or the Certified Coding Associate (CCA) exam through the American Health Information Management Association (AHIMA), although certification is not an employment requirement at this time.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.rogucecc.edu/GainfulEmployment](http://www.rogucecc.edu/GainfulEmployment).

### 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 Coding Specialist Certificate program are:

Build a fundamental understanding of the human body and medical terminology as they apply to medical billing and coding.

Assign and understand diagnostic and procedure codes using ICD and HCPCS/CPT coding systems as used in a variety of settings.

Uphold legal and ethical standards and adhere to principles of patient confidentiality within the health care community environment as defined by federal, state, and local guidelines and regulations.

Effectively use specialized computer programs (EMR) and the Microsoft Office Suite.

Recognize and understand common acronyms used within the industry.

Understand and appropriately apply industry-standard payment methodologies.

Effectively apply verbal, nonverbal, and written communication principles and skills in the workplace.

Demonstrate professionalism through acceptable attitude, organization and time management skills, and attire.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

Students must meet certain minimum academic requirements (MTH20, RD90 and WR90 or WR91 or designated placement scores) before starting the program. Please visit [www.rogucecc.edu/alliedhealth/mcs](http://www.rogucecc.edu/alliedhealth/mcs) for program application details.

### 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

Students must complete all courses on this graduation guide 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 indicates a student earned the equivalent of a "C" or better grade.

### Prerequisites

Course No.	Course Title	Credits
MMTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

**Total Prerequisite Credits 0-12**

### Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
AH100	Medical Terminology: Introduction	3
BI100SB	Biology of Human Systems <sup>1</sup>	3
BT113	Business English I or WR115 Introduction to Expository Writing or higher level composition	3-4
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
HCI120	Introduction to the Health Care Industry	3
		12-17

#### Second Term

AH105	Communication and Professional Behavior	2
AH110	Medical Terminology: Clinical	3
AH130	Concepts in Medical Insurance and Billing	4
HCI210	Legal Aspects of Medical Records	3
		12

#### Third Term

AH140	Basic CPT Coding	4
AH141	Basic Coding in ICD-10-CM	4
BA109	Ready, Set, Work: Techniques for Landing a Job	2
	Approved program elective(s)	2-4
		12-14

**TOTAL PROGRAM CREDITS 36-43**

### Approved Program Electives <sup>2</sup>

(2-4 credits required)

AH120	Medical Administrative Assistant I	4
BT111	Conflict Management	2
CG144	Introduction to Assertiveness	1
CG155	Exploring Careers in Health Care	3
CIS125SS	Spreadsheet Applications	4
SOC213	Race and Ethnicity in the U.S.	4
SP100	Basic Communication	3



SPAN101,102,103	First Year Spanish I, II, III	4-4-4
SRV101	Service Learning	1
WR110	Understanding English Grammar	2

<sup>1</sup> Students who have completed either BI121 and BI122 or BI231, BI232, and BI233 (the entire sequence of either series) with an equivalent "C" or better grade do not need to take BI100SB.

<sup>2</sup> Additional prerequisites may apply.

For more information regarding the program and selection process, contact the Allied Health Occupations Department:

Grants Pass or Medford ..... 541-245-7841  
Toll free in Oregon ..... 800-460-6766, Ext. 7841  
email ..... alliedhealth@rogucecc.edu  
Web address ..... www.rogucecc.edu/AlliedHealth/mcs  
TTY ..... Oregon Telecom Relay Service, 711

## Microcontroller Systems Technician Certificate of Completion

### About the Program

The Microcontroller Systems Technician four-term certificate is designed for students seeking entry-level positions servicing, upgrading, and repairing personal computer and microcontroller-based equipment. The coursework emphasizes electronics studies aimed at the hardware portion of the field as well as computer science courses involving operating systems, networking, and related software applications.

Technical courses involve lecture, lab work, and real-world experience in the lab using industry standard test equipment and practices. This program will help students gain skills for entry into one of today's most dynamic occupations. Typical occupations include those of PC/microcontroller support technicians, network specialists, microcomputer technicians, and field service technicians. Training also provides excellent positioning for lateral movement into areas such as technical sales or technical writing. Certificate courses are aligned for continuation into the Electronics Technology AAS degree and Computer and Embedded Systems Engineering Technology AS degree for transfer to Oregon Institute of Technology.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit <http://www.rogucecc.edu/GainfulEmployment>.

### 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 electronics technology programs are:

Identify and solve real-world problems through the application of electronics theory and concepts.

Calibrate, test, and repair analog and digital circuitry using industry standard test equipment.

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.

Demonstrate life-long learning towards professional growth.

Negotiate and abide by the terms of agreement that define their employment.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

Students are also required to complete any prerequisites listed.

### Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Electronics 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 Enrollment Services and the Electronics 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.

### Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

**Total Prerequisite Credits** **0-16**

### Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
EET101	Introduction to Electronics	3
EET129	Introduction to Embedded Systems	3
MTH63	Applied Technical Math/Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4-5
WR115	Introduction to Expository Writing or higher level composition	<u>3-4</u>
		13-15
<b>Second Term</b>		
EET125	Electronics Fundamentals I	6
HE112	Emergency First Aid or approved health elective (see catalog for approved list of electives)	1-3
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
—	Approved program elective(s) <sup>2</sup>	<u>0-3</u>
		10-15
<b>Third Term</b>		
CIS227	PC Hardware Fundamentals and Repair	5
EET127	Exploring the Raspberry Pi	3
EET130	Digital Fundamentals I	<u>6</u>
		14
<b>Fourth Term</b>		
CIS140	Introduction to Operating Systems	4
EET131	Digital Fundamentals II	6
EET180	Cooperative Work Experience/Electronics or	
—	Approved program elective(s) <sup>2</sup>	<u>3-5</u>
		13-15
<b>TOTAL PROGRAM CREDITS</b>		<b>50-59</b>



## Approved Program Electives

(one or more courses totaling a maximum of 4-8 credits required)

Course No.	Course Title	Credits
BT121	Digital Marketing and e-Commerce	3
	Any computer applications course, CIS125 or above	1-4
EET104	Introduction to Manufacturing Electronics	4
EET106	Electronic Assembly	3
EET112	Introduction to Mechatronics	3
EET113	Exploration of Alternative Energies	3
EET118	Introduction to Renewable Energy Systems	5
EET132	Digital Fundamentals III	5
EET199	Selected Topics in Technology	1-5
EET240	Microcontrollers I	5
GS104	Physical Science with lab	4
MET101	Mechanical Drafting	3
MET121	CAD I: Mechanical (SolidWorks)	3
MET122	CAD II: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy	3
MFG101	Introduction to Manufacturing	3
MFG121	Manufacturing Processes I	4
MFG210	AC/DC Electrical Systems for Manufacturing	3
MFG230	Statistics and Quality Control	3
MTH65	Fundamentals of Algebra II or higher level math (if not taken as a required course)	4
WR121	English Composition I	4
WR122	English Composition II	4
WR227	Technical Writing	4

<sup>1</sup> Required for graduation.

<sup>2</sup> A maximum of 4-8 elective credits are required for graduation.

For more information contact the Electronics Technology Department:

Grants Pass or Medford . . . . . 541-245-7809

Toll free in Oregon . . . . . 800-411-6508, Ext. 7809

email . . . . . electronics@roguecc.edu

Web address . . . . . www.roguecc.edu/electronics

TTY . . . . . Oregon Telecom Relay Service, 711

## Nursing Associate of Applied Science Degree

### Fall Term 2020 Program Admission

#### About the Program

RRCC is a member of the Oregon Consortium for Nursing Education (OCNE) and offers a competency-based curriculum jointly developed by nursing faculties from the eleven community college 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 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 program allows for co-admission to RCC and OHSU nursing programs. The program is designed as four years of full-time study, with the first year devoted to prerequisite/preparatory courses (45-credit minimum) required for admission to the restricted (limited) admission Nursing program. Successful completion of the second and third years leads to an Associate of Applied Science (AAS) Nursing degree offered by Rogue Community College. The OCNE curriculum continues for four additional terms leading to a Bachelor of Science degree, with a major in Nursing (BS,N) offered by OHSU.

The first five terms after admission to the RCC Nursing program are identical for the associate and OHSU bachelor's degree courses. Term six offers students the ability to complete the AAS degree at RCC and provides the educational eligibility for NCLEX-RN licensure testing. Students who

complete the AAS degree at RCC and pass the NCLEX-RN exam also have the option to complete the upper division nursing courses for the bachelor's degree through OHSU (the OHSU bachelor's requirement of statistics may be completed at RCC but 15 credits of upper division non-nursing courses must be completed through other colleges or universities). Options available for baccalaureate completion can be found at <http://www.ohsu.edu/xd/education/schools/school-of-nursing/programs/undergraduate/current-rn-bs/index.cfm>.

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](http://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 program 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 through reflection, self-analysis, and self-care.

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 health care team, providing, receiving, 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 using 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 best available evidence, frameworks and systems to organize data and knowledge; accurately performing 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. In addition, students may also be required to enroll in classes that would increase their employability and success, e.g. NUR100 (course for re-entry students only). 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 per year. Deadline for submitting program application material is February 15, 2020, for fall term 2020 admission (see program website and/or application packet for more information). Transcripts showing satisfactory completion of the math and Anatomy and Physiology I prerequisites and at least 22 other credits of the prerequisite/preparatory courses (minimum of 30 credits) must be in the Enrollment Services office by the application deadline to be considered eligible. All prerequisite/preparatory courses must have been taken with a letter grade and completed with a "C" or better (C- grades are not accepted). Consortium partner schools will use shared standards in a point system and a set of core criteria for 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/preparatory courses. Contact the Nursing Department or see the Nursing website for information regarding the application and selection process.

If an applicant has taken an equivalent course elsewhere which 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 admit-



ted into nursing courses students must complete all required prerequisite and preparatory courses (minimum 45 credits) and be accepted into the Nursing program.

Accepted students must pass a criminal history background check and urine drug screen prior to 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 a CPR Health Care Provider course (adult/child/infant, one- and two-person, with AED, course must have been successfully completed within two years prior to admission to nursing courses; online CPR courses are not acceptable). Information regarding required immunizations will be provided in the acceptance letter.

Internet and email access is an integral part of all nursing courses and access to a computer (at home or at the college) will be required on a daily basis. Beginning fall 2020, after completion of a new building, Nursing students will attend classes at the Table Rock Campus in White City and clinical practicum in both Josephine and Jackson Counties and 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 2020-21 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 graduation guide 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 indicate a student earned the equivalent of a "C" or better grade.

Students must complete all courses on this graduation guide 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). 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.

## Prerequisites/Required Preparatory Courses<sup>1</sup>

Course No.	Course Title	Credits
BI211	General Biology I with lab (or department chair acceptance of transfer biology with genetics) <sup>2</sup>	4
BI231	Anatomy and Physiology I with lab (within last seven years) <sup>2</sup>	4
BI232	Anatomy and Physiology II with lab (within last seven years) <sup>2</sup>	4
BI233	Anatomy and Physiology III with lab (within last seven years) <sup>2</sup>	4
BI234	Microbiology with lab <sup>2</sup>	4
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS/CIS120 or above, or documented computer proficiency <sup>3</sup>	0-4
MTH95	Intermediate Algebra or higher level math	4
NFM225	Nutrition	4
PSY201	General Psychology I <sup>4</sup>	4
PSY215	Life Span Human Development	4
WR121	English Composition I <sup>4</sup>	4
WR122	English Composition II <sup>4</sup>	4
—	Any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science electives <sup>5</sup>	0-6

**Prerequisite/Preparatory Credits to be Eligible to Apply <sup>1</sup> 30**

**Remaining Prerequisite/Preparatory Credits to be Completed Before Admission to Nursing Courses 15-18**

**Minimum Number of Prerequisite Credits Required 45-48**

## First Year Nursing Course Requirements <sup>6</sup>

Course No.	Course Title	Credits
<b>Fall Term</b>		
NRS110	Foundations of Nursing – Health Promotion	9

Any lower division transfer elective	3
Any college-level (100 or 200 numbered) transferable social science elective	3
	15

### Winter Term

NRS112	Foundations of Nursing in Acute Care I	6
NRS230	Clinical Pharmacology I	3
NRS232	Pathophysiological Processes I	3
	Any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science electives <sup>7</sup>	4
		16

### Spring Term

NRS111	Foundations of Nursing in Chronic Illness	6
NRS231	Clinical Pharmacology II	3
NRS233	Pathophysiological Processes II	3
WR	Research Writing 8	0-4
		12-16

### Spring Term (LPN Transition Only)

NRS115	LPN Transition to OCNE (only for accepted advance placed LPNs) <sup>9</sup>	(6)
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## Second Year Nursing Course Requirements

Course No.	Course Title	Credits
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### Fall Term

NRS221	Nursing in Chronic Illness II and End-of-Life	9
—	Any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science electives <sup>7</sup>	6
		15

### Winter Term

NRS222	Nursing in Acute Care II and End-of-Life	9
—	Any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science electives <sup>7</sup>	6
		15

### Spring Term

NRS224	Integrative Practicum	9
—	Any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science electives <sup>7</sup>	3
		12

## TOTAL PROGRAM CREDITS BEYOND 30

**PREREQUISITE CREDITS 100-104**

<sup>1</sup> MTH95 or higher level math (4 credits) and BI231 must be part of the 30 credits completed by application deadline for application to be eligible. Remaining 22 prerequisite credits for eligibility may be from any of the prerequisite/required preparatory courses. Minimum prerequisite GPA for eligibility is 3.0. C- grades are not accepted.

<sup>2</sup> Virtual labs are not accepted. Remote or distance labs not conducted in the physical presence of an instructor are also not accepted for lab science courses. No extension beyond the seven-year time limit extension will be granted for anatomy and physiology courses. An acceptable genetics course may replace BI211 only if the student has already completed the required anatomy and physiology and microbiology courses.

<sup>3</sup> If computer proficiency is documented (0 credits), students must be sure to complete at least 30 credits from prerequisite/preparatory course list by application deadline and all prerequisites (minimum 45 credits) by end of summer term in the year of application to enroll in nursing courses, if accepted.

<sup>4</sup> PSY201 or PSY202 and WR121 and WR122, completed before summer term 2009 at 3 credits each, are also acceptable. If Life Span Human Development is completed prior to the application deadline, any previously completed transferable 3-4 credit social science course can replace PSY201.

<sup>5</sup> To be admitted into nursing courses, students must complete all required prerequisite/required preparatory courses (minimum 45 credits) and be accepted into the Nursing program. ↗

<sup>6</sup> General education courses in this year may be completed during summer term but must be completed to progress to second year nursing courses.



<sup>7</sup> Students who plan to continue through to OHSU must be aware that to earn the bachelor's degree from OHSU, they must have two years of the same high school-level language, or two terms of college-level language, or pass a language proficiency examination. College-level transferable foreign language (including American Sign Language) credits count toward degree requirements. 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 MTH243 Probability and Statistics soon after the prerequisite math course.

<sup>8</sup> Students who have not completed a writing series inclusive of research writing or not completed a bachelor's degree from an accredited English speaking college or university, recognized by the United States Department of Education, must complete a research writing course (e.g. WR122 at 4 credits and inclusive of research writing or WR227) to be allowed to progress to the second year of the program.

<sup>9</sup> NRS115 LPN Transition to OCNE, 6 credits, will be offered in spring term through RCC and will be limited to space available and to those LPNs who meet application/selection criteria. The application deadline will be October 15, 2020. See the Nursing program director for more information.

For more information regarding the program, selection process, and points contact the Nursing program:

Grants Pass or Medford . . . . . 541-956-7308  
Toll free in Oregon . . . . . 800-411-6508, Ext. 7308  
Email . . . . . nursing@roguecc.edu  
Web address . . . . . www.roguecc.edu/Nursing  
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 (AS/OT-BUS), and the Associate of Science Oregon Transfer – Computer Science degree (AS/OT-CS), 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, AS/OT-BUS or AS/OT-CS major.

### 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 or visit [www.roguecc.edu/general-ed-outcomes](http://www.roguecc.edu/general-ed-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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### Advanced Standing

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

### Completion Requirements

Students must complete all required courses with a grade of "C" or better to complete the Oregon

Transfer Module. 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. 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 module. Applications are available at Rogue Central.

## Foundational Skills Requirements

Course No.	Course Title	Credits
<b>Writing (two courses required)</b>		
WWR121	English Composition I	4
WR122	English Composition II or WR227 Technical Writing	4
<b>Oral Communication (one course required)</b>		
SP111	Fundamentals of Public Speaking I	4
SP115	Intercultural Communication	4
SP218	Interpersonal Communication	4
<b>Mathematics (one course required)</b>		
MTH105	Introduction to Contemporary Mathematics 2	4
MTH111	College Algebra	4
MTH112	Elementary Functions	4
MTH211,212,213	Fundamentals of Elementary Math I, II, III	5-5-5
MTH243	Probability and Statistics 2	4
MTH244	Inferential Statistics	4
MTH251,252,253	Calculus I, II, III	5-5-5
MTH254	Vector Calculus	5
MTH256	Differential Equations	5
MTH261	Linear Algebra	5
<b>TOTAL FOUNDATIONAL SKILLS CREDITS</b>		<b>16-17</b>

## Introduction to Discipline Requirements

### Humanities (three courses required)

Course No.	Course Title	Credits
ART204,205,206	History of Art I, II, III (sequence recommended for art majors transferring to a university art program)	4-4-4
COMM225	Small Group Communication and Problem-solving	4
COMM237	Communication and Gender	4
COMM270	Argumentation and Debate	3
ENG104,105,106	Introduction to Literature I, II, III	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Introduction to English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218, 219	Native American Arts and Cultures	4-4-4-4-4
IS110	Introduction to International Studies I	4
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems, Ethics, Critical Reasoning	4-4-4
REL201	World Religions	4



REL243	Nature, Religion and Ecology	4
SP100	Basic Communication I	3
SP115	Intercultural Communication (if not taken to fulfill oral Communication requirement)	4
SP218	Interpersonal Communication (if not taken to fulfill oral Communication requirement)	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

### Social Science (three courses required)

Course No.	Course Title	Credits
ANTH110	Introduction to Cultural Anthropology	4
ANTH150	Introduction to Archaeology	4
CJ100	Foundations and Ethics in Criminal Justice	4
CJ101/SOC244	Introduction to Criminology	4
CJ201/SOC221	Juvenile Delinquency	4
CJ214	Criminal Justice and Diversity	4
ECON201	Principles of Microeconomics	4
ECON202	Principles of Macroeconomics	4
GEOG110	Introduction to Cultural/Human Geography	3
GEOG120	World Regional Geography	3
HST104	World Civilizations: Prehistory - Middle Ages	4
HST105	World Civilizations: Byzantium - Present	4
HST201	U.S. History through Reconstruction	4
HST202	U.S. History: Post-Reconstruction - Present	4
PS201,202,203	U.S. Government I, II, III	3-3-3
PSY201,202	General Psychology I, II	4-4
PSY215	Life Span Human Development	4
PSY219	Introduction Abnormal Psychology	4
SOC204,205	Introduction to Sociology, American Society	4-4
SOC213	Race and Ethnicity in the U.S.	4
SOC218	Sociology of Gender	3
SOC225	Social Problems and Solutions	4
SOC228	Environment and Society	4
SOC230	Introduction to Gerontology	4
SOC235/HST259	The Chicano/Latino Historical Experience	4
SOC243/CJ243	Drugs, Crime and Addiction	4

### Science/Math/Computer Science <sup>3</sup>

(three courses required, including at least one biological or physical science course with lab – maximum of one course from regional field studies courses allowed and are indicated by asterisk)

Course No.	Course Title	Credits
<b>Lab Science Courses</b>		
BI101,102,103	Introduction to Biology I, II, III with lab (non-majors)	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM105R	Introductory Organic Chemistry recitation	1
CHEM106	Introductory Biochemistry with lab	4
CHEM106R	Introductory Biochemistry recitation	1
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GS104	Physical Science with lab	4
GS106	Physical Science: Earth Science with lab	4
GS107	Physical Science: Astronomy with lab	4
GS108	Physical Science: Oceanography with lab	4
GS170 *	Regional Field Studies (includes lab)	4
PH201,202,203	General Physics, I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

### Non-lab Science/Math/Computer Science Courses

ENV111	Introduction to Environmental Science	3
CS160	Introduction to Computer Science	4
CS161J,162J	Computer Science I, II (Java)	4-4
CS162U	Computer Science II (C++)	4
CS260	Data Structures I	4
MTH105	Introduction to Contemporary Mathematics <sup>2,3</sup>	4
MTH111	College Algebra <sup>3</sup>	4
MTH112	Elementary Functions <sup>3</sup>	4
MTH211,212,213	Fundamentals of Elementary Math I, II, III <sup>3</sup>	5-5-5
MTH243	Probability and Statistics <sup>2,3</sup>	4
MTH244	Inferential Statistics <sup>3</sup>	4
MTH251,252,253	Calculus I, II, III <sup>3</sup>	5-5-5
MTH254	Vector Calculus <sup>3</sup>	5
MTH256	Differential Equations <sup>3</sup>	5
MTH261	Linear Algebra <sup>3</sup>	5
NFM225	Nutrition	4

**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. The second year of a foreign language may be used toward elective credits but not first year courses.

**TOTAL OREGON TRANSFER MODULE CREDITS 46-56**

<sup>1</sup> Speech 100 may not be accepted as fulfilling the speech requirement at an Oregon University. See an Advisor for more information.

<sup>2</sup> MTH105 and MTH243 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.

<sup>3</sup> If a math class is selected, it must be in addition to the mathematics foundational requirement.

For more information contact a counselor or an advisor:

Grants Pass	541-956-7192
Medford	541-245-7552
Toll free in Oregon	800-411-6508, Ext. 7192 or 7552
email	otm@rogucecc.edu
Web address	www.rogucecc.edu
TTY	Oregon Telecom Relay Service, 711

## Outdoor Adventure Leadership Transfer to Southern Oregon University Associate of Science Degree

### About the Program

TTThe 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:



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.

Document a personal knowledge of demographic health changes and trends in chronic and acute diseases in the U.S. over the last 100 years.

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. In addition, students may also be required to enroll in classes that would increase their employability and success.

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.

Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH95	Intermediate Algebra or MTH96 Applied Algebra II or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
Total Prerequisite Credits		0-11

General Education Requirements

Course No.	Course Title	Credits
LIB127	Introduction to Academic Research	1
MTH243	Probability and Statistics	4
COMM225	Small Group Communication and Problem-solving or SP111 Fundamentals of Public Speaking or SP218 Interpersonal Communication	4
WR121	English Composition I	4
WR122	English Composition II or WR227 Technical Writing	4
—	Approved humanities electives <sup>1</sup>	9-12
—	Approved social science electives <sup>2</sup>	6-8
	Approved science electives <sup>3</sup>	11-15
Total General Education Requirements		43-52

Core Requirements

Course No.	Course Title	Credits
ENV111	Introduction to Environmental Science, or GEOG110 Introduction to Cultural and Human Geography, or GEOG120 World Regional Geography	3
HE131	Introduction to Exercise and Sport Science	3
HE253	Wilderness First Aid	3
HE259	Care and Prevention of Athletic Injury	3
HPE295	Health and Fitness for Life	3
NFM225	Nutrition	4
OAL150	Outdoor Living Skills	2

OAL223	Wilderness Navigation	2
OAL250	Foundations in Outdoor Adventure Leadership	3
—	Approved program electives <sup>4</sup>	6-15

Land (choose a minimum of three classes from the following list):

PE185BA	Backpacking	1
PE185CC	Skiing/Snowboarding	1
PE185HA	Hiking Oregon	1
PE185R	Rock Climbing	1
PE185RC	Rock Climbing Adventure	1
PE185W	Winter Survival and Snow Camping	1
PE185ZL	Zipline Guide Technical Skills	1

Water (choose a minimum of three classes from the following list):

PE185RR	River Rafting Adventure	1
PE185S	Surfing	1
PE185SC	Open Water SCUBA Diving	1
PE185SK	Sea Kayaking the Oregon Coast	1
PE185WK	Whitewater Kayaking	1

Total Core Credits 38-47

TOTAL PROGRAM CREDITS 90

1 Approved Humanities Electives

(Complete at least three courses from the following list, 9-12 credits.)

Course No.	Course Title	Credits
ART131	Introduction to Drawing	3
ART204,205,206	History of Art I, II, III	4-4-4
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
IS110	Introduction to International Studies I	4
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SP115	Introduction to Intercultural Communication	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141	Fundamentals of Acting	4
WR241,242,243	Imaginative Writing I, II, III	4-4-4

2 Approved Social Science Electives

(Complete at least two courses from the following list, 6-8 credits.)

Course No.	Course Title	Credits
ANTH110,150	Introduction to Cultural Anthropology/Archaeology	4-4
BA101	Introduction to Business	4
BA218	Personal Finance	3
CJ101/SOC244	Introduction to Criminology	4



CJ120	Introduction to the Judicial Process	4
CJ243/SOC243	Drugs, Crime and Addiction	4
COMM237	Communication and Gender	4
ECON115	Introduction to Economics	3
ECON201,202	Principles of Microeconomics/Principles of Macroeconomics	4-4
GEOG110	Introduction to Cultural and Human Geography	3
GEOG120	World Regional Geography	3
HST104	World Civilizations: Prehistory - Middle Ages	4
HST105	World Civilizations: Byzantium - Present	4
HST201	U.S. History through Reconstruction	4
HST202	U.S. History: Post-Reconstruction - Present	4
IS111	Introduction to International Studies II	3
PS201,202	U. S. Government I, II	3-3
PSY101	Psychology of Human Relations	3
PSY119	Psychology of Personal Growth	4
PSY201,202	General Psychology I, II	4-4
PSY215	Life Span Human Development	4
PSY219	Introduction to Abnormal Psychology	4
PSY231	Human Sexuality	3
SOC204,205	Introduction to Sociology, American Society	4-4
SOC211	Social Deviance and Social Control	3
SOC213	Race and Ethnicity in the U.S.	4
SOC218	Sociology of Gender	4
SOC225	Social Problems and Solutions	4
SOC228	Environment and Society	4
SOC230	Introduction to Gerontology	4
SOC235/HST259	The Chicano/Latino Historical Experience	4

### 3 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 asterisk.)

Course No.	Course Title	Credits
BI100GB	Introductory Biology (non-lab course)	3
BI100SB	Biology of Human Body Systems (non-lab course)	3
BI101,102,103	Introduction to Biology I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM105R	Introductory Organic Chemistry Recitation	1
CHEM106	Introductory Biochemistry with lab	4
CHEM106R	Introductory Biochemistry Recitation	1
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CIS195	Web Authoring I (HTML/CSS) (non-lab course)	4
ENV111	Introduction to Environmental Science (non-lab course)	3
G100	Fundamentals of Geology (non-lab course)	3
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GEOG100	Introduction to Physical Geography (non-lab course)	3
GS104,106,107,108	Physical Science with lab	4-4-4-4
GS170 *	Regional Field Studies with lab	4
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

### 4 Approved Program Electives

(complete 6-15 credits for a total of 90 program credits)

Course No.	Course Title	Credits
HE199	Special Studies in Health	1-3
HE208	HIV and Other Epidemics	1
HE250	Personal Health	3
HE252	First Aid/CPR	3

PE184	Adaptive Physical Education	1
PE185	Any physical education course not required within core requirements	variable
PE194	Principles of Exercise Training and Conditioning	2
PE199	Special Studies in Physical Education	1-3
PE264	Fundamentals of Personal Training	2
PE280	CWE/Physical Education	2
PE290	Fitness Instructor	2
	Any lower division transfer course not already required	variable

For more information contact the Health/Physical Education/Recreation Department:

Grants Pass	541-956-7140
Medford	541-245-7504
Toll free in Oregon	800-411-6508, Ext. 7140 or Ext. 7504
email	rwchealthpe@rogucecc.edu or rvchealthpe@rogucecc.edu
Web address	www.rogucecc.edu/HPER
TTY	Oregon Telecom Relay Service, 711

## Paramedicine Associate of Applied Science Degree

### About the Program

The Emergency Medical Services (EMS) program is accredited by the Oregon Department of Education and the Oregon Health Authority – EMS, and the Paramedicine program is nationally accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the EMS Professions (CoAEMSP).

The 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.

### 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 emergency medical service programs 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.

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 of multiple personnel on emergency scenes.

Understand and follow workplace expectations regarding attendance, safety, conduct, and professionalism.

Describe and use defensive and safe driving techniques in the operation of emergency vehicles.

Demonstrate safe work practices in a variety of specific rescue situations including rope, water, wilderness, and confined space rescue.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

This program requires an application and satisfaction of certain course admission criteria prior to enrolling in paramedic courses. Information is available on the Emergency Services (ES) Department website (www.rogucecc.edu/EmergencyServices/EMS) or at the 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 high school graduates or have a GED or equivalent for certification. In addition, students must meet the qualifications outlined by the Oregon Health Authority – EMS. Students are required to submit verification of certain immunizations and medical tests. Students are also required to pass a drug screen and a criminal background investigation prior to their mandatory clinical time.

## Advanced Standing

Students will normally have completed the entire first year requirements for this program prior to enrolling in the paramedic course. Applicants to the paramedic course will be selected on the basis of experience as an EMT, overall academic GPA, success in BI231, BI232, and BI233, and the number of classes remaining to complete the degree program. An oral interview will be conducted during summer term for all eligible candidates. Students are required to have completed 52 or more credits of program requirements before they are eligible to begin the paramedic course. Additional requirements will be in accordance with current statewide policies and procedures. Courses from accredited colleges and universities will be accepted in accordance with college policies and the 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.

## 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.

## Prerequisites

Students are strongly encouraged to meet with an Emergency Services Department advisor prior to beginning any coursework.

Course No.	Course Title	Credits
BI211	General Biology I with lab <sup>1</sup>	4
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>2</sup>	0-4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
<b>Total Prerequisite Credits</b>		<b>4-15</b>

## First Year Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
AH100	Medical Terminology: Introduction	3
BI231	Anatomy and Physiology I with lab	4
ES105	Introduction to Emergency Services	4
ES131	EMT Part I	4
ES131L	EMT Part I Lab	1
		16
<b>Second Term</b>		
BI232	Anatomy and Physiology II with lab	4
EMS170	Emergency Communication and Documentation	2
ES132	EMT Part II	4
ES132L	EMT Part II Lab	1
MTH96	Applied Algebra II or MTH95 Intermediate Algebra or higher level math	4
		15
<b>Third Term</b>		
BI233	Anatomy and Physiology III with lab	4
ES171	Emergency Vehicle Operations	2
ES205	Crisis Management	3
<b>168</b>		

ES268	Emergency Service Rescue	3
WR121	English Composition I	4
		16
<b>Total First Year Credits</b>		<b>47</b>

## Second Year Required Courses

Course No.	Course Title	Credits
<b>Fourth Term</b>		
EMS271	Paramedic Part I	8
EMS271L	Paramedic Lab Part I	2
EMS281	Paramedic Clinical Practice I	1
SP111	Fundamentals of Public Speaking or SP218 Interpersonal Communications	4
		15
<b>Fifth Term</b>		
EMS272	Paramedic Part II	8
EMS272L	Paramedic Lab Part II	2
EMS282	Paramedic Clinical Practice II	2
ES295	Health and Fitness for Emergency Service Workers or HPE295 Health and Fitness for Life	3
		15
<b>Sixth Term</b>		
EMS273	Paramedic Part III	5
EMS273L	Paramedic Lab Part III	2
EMS283	Paramedic Clinical Practice III	2
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
—	Approved social science elective	3-4
		15-16

<b>Seventh Term</b>		
EMS284	Paramedic Clinical Practice IV	8
—	Approved program elective	3-7
		11-15

<b>Total Second Year Credits</b>	<b>56-61</b>
<b>TOTAL PROGRAM CREDITS</b>	<b>103-108</b>

## Approved Program Electives

(3-7 credits required)

Course No.	Course Title	Credits
AH110	Medical Terminology: Clinical	3
BT102	Introduction to Supervision	3
BT111	Conflict Management	2
CG144	Introduction to Assertiveness	1
CHEM104	Introductory Chemistry with lab and recitation	5
CJ243/SOC243	Drugs, Crime and Addiction	4
ED120	Leadership I	1
ED121	Leadership II	1
ED122	Leadership III	1
EMS160	Electrocardiogram (ECG) Interpretation	2
EMS165	Introduction to Pharmacology for Health Occupations	2
EMS211/L	Advanced EMT Part I with lab	5
EMS212/L	Advanced EMT Part II with lab	5
EMS213/L	Advanced EMT Part III with lab	3
EMS222	Advanced EMT Intermediate – Clinical Practice II	1
EMS223	Advanced EMT Intermediate – Clinical Practice III	2
EMS299	Workshop: EMS Training	variable
ES280	Cooperative Work Experience/EMS	1-6



FRP251	Firefighter Level I 3	3
FRP251L	Firefighter Level I Lab 3	5
FRP261	Hazardous Materials First Responder Operations	1
FRP285	Fire Instructor I	3
HC100	Community Health Worker	6
HCI120	Introduction to the Health Care Industry	3
LIB127	Introduction to Academic Research	1
MTH105	Introduction to Contemporary Mathematics	4
MTH243	Probability and Statistics	4
WR110	Understanding English Grammar	2
WR227	Technical Writing	4
—	Any world language	4

## Emergency Medical Service and Inservice Training

Up to 16 credits may be applied to the Paramedicine AAS degree for students who have completed EMS education or pre-hospital care experience. See the Emergency Services Department chair for information.

<sup>1</sup> BI211 is a prerequisite to BI231; CHEM104 also highly recommended.

<sup>2</sup> Required for graduation.

<sup>3</sup> FRP251 taken previously for 8 credits but without a separate lab is also acceptable.

For more information contact the Emergency Services Department:

Grants Pass or Medford ..... 541-245-7965

Toll free in Oregon ..... 800-411-6508, Ext. 7965

email ..... emergencyservicesadvisors@rogucecc.edu

Web address ..... www.rogucecc.edu/emergencyservices

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.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.rogucecc.edu/GainfulEmployment](http://www.rogucecc.edu/GainfulEmployment).

### 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 program are:

Accurately implement physician orders by preparing, labeling and packaging medications while working under the supervision of a licensed pharmacist.

Demonstrate proficiency in assisting pharmacists in preparing, storing, and distributing medication products appropriate to a variety of pharmacy settings.

Perform accurate pharmacy calculations and proficiently apply computer skills, record keeping and billing in adherence to applicable industry regulations.

Apply verbal, nonverbal, and written communication principles and skills effectively and compassionately within a team setting.

Uphold legal and ethical standards and adhere to principles of patient confidentiality within the health care and community environment as defined by HIPAA.

Maintain industry standards of quality control and safety principles in the workplace.

Demonstrate professionalism through acceptable attitude, organization and time management skills, and attire.

Prepare for the national pharmacy technician certification and licensure as required by state of Oregon regulations.

## Entry Requirements

This is a competitive-entry, cohort-based program because of limited space in both hospital and retail pharmacies, as well as the delicate balance of job opportunities in this field. Enrollment is limited.

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 be required to enroll in classes that would increase their employability and success.

Cohort students must meet certain minimum academic requirements (AH100, BT113 or WR115 or designated placement test score, CS120/CIS120 or documented proficiency, MTH60 or MTH63 or designated placement test score), before starting the program. Students must complete specific health and immunization requirements and a background check prior to starting the program, and a drug screen prior to starting practicum experience. This screening process has an associated fee. Contact the Allied Health Department for more information. Visit [www.rogucecc.edu/AlliedHealth/prx](http://www.rogucecc.edu/AlliedHealth/prx) for program details.

## 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 graduation guide or catalog for that year. Students must complete all courses on this graduation guide 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.

## Prerequisites

Course No.	Course Title	Credits
AAH100	Medical Terminology: Introduction 1	3
BT113	Business English I or WR115 Introductory to Expository Writing or designated placement test score	0-4
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH60	Fundamentals of Algebra I or MTH63 Applied Algebra I or designated placement test score	0-4

**Total Prerequisite Credits 3-15**

## Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
BI100SB	Biology of Human Systems <sup>2</sup>	3
DA202	Infection Control	2
HCI120	Introduction to the Health Care Industry	3
HE252	First Aid/CPR or HE112 Emergency First Aid and	



PRX101	HE261 CPR/Basic Life Support Provider <sup>2</sup>	2-3
	Pharmacy Technician I	4
		14-15

## Second Term

AH105	Communication and Professional Behavior	2
AH165	Introduction to Pharmacology for Pharmacy Technicians	2
BA109	Ready, Set, Work: Techniques for Landing a Job	2
MTH64	Pharmacy Calculations	2
PRX102	Pharmacy Technician II	4
PRX123	Law and Ethical Issues for Pharmacy Technicians	2
PRX170	Pharmacy Technician Practicum and Seminar	3
		17

## TOTAL PROGRAM CREDITS 31-32

<sup>1</sup> Required for graduation.

<sup>2</sup> Students who have completed either BI121 and BI122 or BI231, BI232, and BI233 (the entire sequence of either series) with an equivalent "C" or better grade do not need to take BI100SB.

For more information regarding the program and selection process, contact the Allied Health Occupations Department:

Grants Pass or Medford . . . . . 541-245-7841  
Toll free in Oregon . . . . . 800-460-6766, Ext. 7841  
email . . . . . alliedhealth@roguecc.edu  
Web address . . . . . www.roguecc.edu/alliedhealth/prx  
TTY . . . . . Oregon Telecom Relay Service, 711

## Physics Interest Associate of General Studies Degree

A total of 90 credits are required to complete the Associate of General Studies (AGS) degree. 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 graduation guide for full degree requirements. It is recommended that a student also consult with the transfer college of choice regarding specific pre-requisites since requirements for a physics major vary at each university.

Course No.	Course Title	Credits	AAOT Category
CHEM221	General Chemistry I	5	Science
CHEM222	General Chemistry II	5	Science
CHEM223	General Chemistry III	5	Science
MTH251	Calculus I	5	Math
MTH252	Calculus II	5	Math
MTH253	Calculus III	5	Math
MTH254	Vector Calculus	5	Math
MTH256	Differential Equations	5	Math
MTH261	Linear Algebra	5	Math
PH211	General Physics I (Calculus Based)	5	Science
PH212	General Physics I (Calculus Based)	5	Science
PH213	General Physics I (Calculus Based)	5	Science
WR227	Technical Writing	4	Elective

Note: Four courses required in the Science/Math category. Additional courses would count as electives.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	www.eou.edu
Oregon State University	www.oregonstate.edu
Portland State University	www.pdx.edu
University of Oregon	www.uoregon.edu

## Practical Nursing Certificate of Completion

### 2020 Year

### About the Program

Rogue Community College offers a limited-entry, 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.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

### 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 program are:

Demonstrate a personal commitment to service and the profession of nursing

Demonstrate ethical and legal behavior in nursing practice.

Demonstrate clinical judgment using knowledge and problem solving skills when contributing to and implementing the plan of care.

Provide culturally sensitive care across the lifespan.

Apply established principles of health promotion and preventive health care.

Use technological resources effectively and appropriately.

Provide clinically competent care through use of established standards and practice guidelines.

Use clear and effective therapeutic communication with clients, families, members of the healthcare team, and others.

Apply concepts of resource utilization to practice cost-effective nursing care.

Functions as a member of the health care team.

Manage and coordinate care within organizational and regulatory constraints.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

Program admission occurs once per year in winter term. The deadline for submitting program application material and completing the required program pre-admission test and other requirements is September 8, 2019, for January 2020 admission. The application deadline may be extended if there are an insufficient number of qualified applicants (watch program website for notification).

To be eligible, prerequisite classes must have been completed with a grade of "C" or better prior to the application deadline. For courses graded only as pass/no pass, a pass that is equal to a "C" is required. If a course is repeated, only the most recent grade will be considered for the selection process. Applicants must have a minimum 2.0 cumulative GPA (for all courses completed at RCC, or at college where anatomy and physiology completed if applicant is new to RCC) and be in good standing (not on academic warning or probation) at RCC to be eligible.

If an applicant has taken an equivalent course elsewhere which has a course number, title, or credit hour different from the RCC course, she or he must contact Enrollment Services for a transfer credit evaluation as far in advance of the application deadline as possible.

Accepted students must attend mandatory program orientations the last two Friday mornings of fall term prior to the beginning of Practical Nursing courses in winter term. A notice of dates, times, and place of the orientations will be emailed to accepted students. Accepted applicants (notification occurs by mid-November) must have proof of a valid unencumbered OSBN CNA certification



current through November 1, 2019, and have completed required preparatory courses with a “C” or better by the end of fall term to retain acceptance and enter practical nursing courses in winter term.

Accepted students must pass a criminal history background check and urine drug screen (with negative results) to retain acceptance and enter the program in January. Information regarding both can be found on the program website and will be provided to students before winter practical nursing classes begin. Since applicants are or will be CNAs, failed criminal history checks or urine drug screens will be reported to the OSBN. Accepted students must successfully complete a CPR Health Care Provider course (adult/infant/child, one and two person, with AED; online courses are not accepted) within one year prior to the September application deadline (and must remain current throughout program). The CPR course must comply with the American Heart Association standards.

CNA work experience is recommended before application but not required. Practical nursing faculty will evaluate the CNA skills of all students admitted to PN101. Students may be required to enroll in classes that would increase their employability and success, e.g., NUR100 if remediation work is required. More information is available by clicking on “enter here” on the program website at [www.roguecc.edu/nursing/practicalnursing](http://www.roguecc.edu/nursing/practicalnursing).

Applicants are encouraged to attend one program information session (held every month at TRC and RWC). See website for details. Internet and email access is an integral part of all practical nursing courses and access to a computer at home or at the college will be required on a daily basis.

## Graduation Requirements

These requirements apply only to students admitted to the Practical Nursing Certificate program courses in January 2020. Students contemplating admission in a later year may have different requirements and must obtain the graduation guide for that year. Successful completion means that students must complete all courses in this program with a grade of “C” or better to continue in and complete the program and receive a certificate. Accepted PN students will forfeit their acceptance unless a complete anatomy and physiology sequence and all other required preparatory courses have been successfully completed, and the criminal history background check and urine drug screen have been passed prior to the start of PN101 in January.

The OSBN screens all applicants for licensure and may deny licensure to applicants with a criminal offense or with a major physical or mental condition that could affect their ability to practice nursing safely. Licensure applicants with a history of chemical dependence may be required to have an assessment by a drug and alcohol counselor. Contact the OSBN with any questions.

Clinical (inclusive of skills lab) 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

Course No.	Course Title	Credits
BI121	Elementary Anatomy and Physiology I with lab (within last seven years or BI231 and BI232 if both completed with labs within last seven years) <sup>1</sup>	4
MTH65	Fundamentals of Algebra II or higher level math <sup>2</sup>	4
WR115	Introduction to Expository Writing (or designated placement test score or completion of WR121)	0-3
CNA-1	OSBN-approved CNA-1 course with completion certificate; course proof waived for students with copy of current OSBN CNA-1 certification attached to application <sup>3</sup>	-
<b>TOTAL PREREQUISITE CREDITS</b>		<b>8-11</b>

## Required Preparatory Courses

Course No.	Course Title	Credits
BI122	Elementary Anatomy and Physiology II with lab or BI233 Human Anatomy and Physiology III within last seven years if student completed BI231 and BI232 as prerequisites <sup>1</sup>	4
—	CPR Health Care Provider course (HE261 or other AHA or ARC adult/infant/child, one- and two-person course with AED) completed later than September one year before application deadline	0-1
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS/CIS120 or above, or documented computer proficiency <sup>4</sup>	0-4
WR121	English Composition <sup>5</sup>	4
<b>TOTAL PREPARATORY CREDITS</b>		<b>8-13</b>

## Required Courses

Course No.	Course Title	Credits
<b>Winter (First) Term</b>		
PN101	Practical Nursing I	8
PN101C	Practical Nursing I Clinical	3
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
		14
<b>Spring (Second) Term</b>		
PN102	Practical Nursing II	8
PN102C	Practical Nursing II Clinical	4
—	Approved program elective	0-3
		12-15
<b>Summer (Third) Term</b>		
PN103	Practical Nursing III	8
PN103C	Practical Nursing III Clinical	4
PN104C	Practical Nursing Leadership Clinical (post-summer session) <sup>6</sup>	2
		14

**TOTAL POST-PREREQ PROGRAM CREDITS 48-56**

## Approved Program Electives

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
CG100	College Success and Survival	2
EMS165	Introduction to Pharmacology for Health Occupations	1-3
HE/PE	Health or Physical Education courses	1-3
LIB127	Introduction to Academic Research	1
NUR100	Scope of Practice and Safety Considerations (by permission only for students accepted for re-entry to the program)	1
RD115	Speedreading for College	3
RD120	Critical Reading and Thinking	3
WR110	Understanding English Grammar	2

<sup>1</sup> Virtual labs are not accepted. Remote or distance labs not conducted in the physical presence of an instructor are also not accepted for lab science courses.

<sup>2</sup> Transcribed course required for graduation.

<sup>3</sup> Accepted students will be required to provide the program secretary with proof of current unencumbered CNA certification in Oregon valid through at least November 1 in the year of application in order to retain acceptance and be admitted to the first practical nursing course the following winter term.

<sup>4</sup> Successful completion of CS120 or equivalent course or passing the RCC computer proficiency exam within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

<sup>5</sup> WR121, 3 credits, completed before summer of 2009 is also acceptable.

<sup>6</sup> Students must register for PN104C (post-summer session) at the same time they register for PN103 and PN103C. PN103, 103C and 104C fall in a new academic/financial aid year.

For more information regarding the program, selection process, and points contact the Practical Nursing program:

Grants Pass or White City..... 541-956-7308  
Toll free in Oregon ..... 800-411-6508, Ext. 7308  
Email ..... [practicalnursing@roguecc.edu](mailto:practicalnursing@roguecc.edu)  
Web address ..... [www.roguecc.edu/nursing/practicalnursing](http://www.roguecc.edu/nursing/practicalnursing)  
TTY ..... Oregon Telecom Relay Service, 711



## Pre-dental Hygiene Interest (Oregon Tech) Associate of General Studies Degree

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 graduation guide for full degree requirements. The following list includes recommended courses for students who have an interest in pre-dental hygiene.

The program listed below is designed to meet the requirements for the pre-dental hygiene program at Oregon Tech. The plan of study is meant to serve as a guide of recommended courses to satisfy the requirements for application to the program. Students are strongly encouraged to work closely with their RCC academic advisors and visit the transfer school's website for all current admission and academic major requirements. Other courses may be available to complete prior to transfer.

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
BI231	Anatomy and Physiology I with lab	4
BI232	Anatomy and Physiology II with lab	4
BI233	Anatomy and Physiology III with lab	4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
MTH243	Probability and Statistics *	4
NFM225	Nutrition	4
SOC204	Introduction to Sociology	4
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I	4
WR122	English Composition II	4
WR227	Technical Writing	4

\*Course required by the Dental Hygiene program for graduation but is not required for admittance into the program. MTH95 is a requirement for admission to Oregon Tech and a prerequisite to Oregon Tech's MTH243.

## Pre-medical Imaging Interest (Oregon Tech) Associate of General Studies Degree

A total of 90 credits are required to complete the Associate of General Studies (AGS) degree. 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 graduation guide for full degree requirements. The following list includes recommended courses for students who have an interest in pre-medical imaging.

The courses listed below are designed to meet the requirements for the pre-medical imaging program at Oregon Tech. The plan of study is meant to serve as a guide of recommended courses to satisfy the requirements for application to the program. Students are strongly encouraged to work closely with their RCC academic advisors and visit the transfer school's website for all current admission and academic major requirements. There may be other courses that can be completed prior to transfer.

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
BI231	Anatomy and Physiology I with lab	4
BI232	Anatomy and Physiology II with lab	4
BI233	Anatomy and Physiology III with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
MTH111	College Algebra	4
MTH112	Elementary Functions	4
PSY201	General Psychology I	4
SP111	Fundamentals of Public Speaking	4

WR121	English Composition I	4
WR122	English Composition II	4
—	Social Science Elective	3-4
—	Humanities Elective (non-studio)	3-4

## Pre-professional Medicine Interest (Dentistry, Medicine, Optometry, Pharmacy, Veterinary) Associate of General Studies Degree

A total of 90 credits are required to complete the Associate of General Studies (AGS) degree. 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 graduation guide for full degree requirements. The following list includes recommended courses for students who have an interest in pre-professional medicine.

The coursework listed below is designed to prepare students for transfer into a pre-professional bachelor's degree at an Oregon university. Since requirements for pre-professional programs vary at each university, students are encouraged to visit the transfer school's website for all current admissions and academic requirements. Students are strongly advised to work with RCC science faculty in designing a program plan for transfer. There may be other courses that can be completed prior to transfer.

The courses outlined here are minimum requirements within a bachelor's degree for admission into several pre-professional programs including the Oregon Health and Science University School of Dentistry and Medicine; Oregon Tech degrees in health studies and clinical laboratory sciences (joint degree with OHSU); and Oregon State University degrees in pharmacy and veterinary medicine.

Course No.	Course Title	Credits
BI211	General Biology I with lab	4
BI212	General Biology II with lab	4
BI213	General Biology III with lab	4
CHEM221	General Chemistry I with lab and recitation	5
CHEM222	General Chemistry II with lab and recitation	5
CHEM223	General Chemistry III with lab and recitation	5
MTH243	Probability and Statistics	4
MTH251	Calculus I (Differential) with lab	5
MTH252	Calculus II (Integral) with lab	5
PH201	General Physics I with lab and recitation	5
PH202	General Physics II with lab and recitation	5
PH203	General Physics III with lab and recitation	5
SP111	Fundamentals of Public Speaking	4
WR121	Fundamentals of Composition I	4
WR122	Fundamentals of Composition II	4
WR227	Technical Writing	4

Oregon public universities offering degrees in pre-professional medicine include:

University of Oregon	<a href="http://www.uoregon.edu">www.uoregon.edu</a>
Eastern Oregon University	<a href="http://www.eou.edu">www.eou.edu</a>
Oregon Tech	<a href="http://www.oit.edu">www.oit.edu</a>
Oregon State University	<a href="http://www.oregonstate.edu">www.oregonstate.edu</a>
Portland State University	<a href="http://www.pdx.edu">www.pdx.edu</a>
Southern Oregon University	<a href="http://www.sou.edu">www.sou.edu</a>



## Psychology Interest

### Associate of Arts Oregon Transfer Degree

A total of 90 credits are required to complete the Associate of Arts Oregon Transfer (AAOT) degree and 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 graduation guide 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.

Course No.	Course Title	Credits	AAOT Category
BI101	Introduction to Biology I with lab or	4	Science
	BI211 General Biology I with lab	4	Science
BI102	Introduction to Biology II with lab or	4	Science
	BI212 General Biology II with lab	4	Science
MTH243	Probability and Statistics	4	Math
PSY201	General Psychology I	4	Social Science
PSY202	General Psychology II	4	Social Science
PSY215	Life Span Human Development	4	Social Science
SOC204	Introduction to Sociology	4	Social Science
WR227	Technical Report Writing	4	Elective

Oregon public universities offering degrees in this subject:

Eastern Oregon University	<a href="http://www.eou.edu">www.eou.edu</a>
Oregon Tech	<a href="http://www.oit.edu">www.oit.edu</a>
Oregon State University	<a href="http://www.oregonstate.edu">www.oregonstate.edu</a>
Oregon State University – Cascades	<a href="http://www.osucascades.edu">www.osucascades.edu</a>
Portland State University	<a href="http://www.pdx.edu">www.pdx.edu</a>
Southern Oregon University	<a href="http://www.sou.edu">www.sou.edu</a>
University of Oregon	<a href="http://www.uoregon.edu">www.uoregon.edu</a>
Western Oregon University	<a href="http://www.wou.edu">www.wou.edu</a>

## Renewable Energy Technician

### Certificate of Completion

#### About the Program

The Renewable Energy Technician four-term certificate program is designed for students seeking entry-level positions in renewable energy manufacturing, installation, site evaluation, and service industries. Typical occupations include those of renewable energy technician, solar PV racking installer, energy system site evaluator, manufacturing technician, or limited energy auditor.

The program emphasizes green technologies, electronics fundamentals, practical troubleshooting and systems site evaluation and design. Technical courses involve extensive lab work using solar photo-voltaic panels, wind and hydro generators, chargers, batteries, inverters, and industry standard test equipment to design, build and test systems. Site evaluation training for system efficiencies and cost analysis is accomplished through hands-on use of specialized equipment and software. The certificate also helps prepare students for the entry-level North American Board of Certified Energy Practitioners (NABCEP) industry certification test.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.roguecc.edu/GainfulEmployment](http://www.roguecc.edu/GainfulEmployment).

#### 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 electronics technology programs are:

Identify and solve real-world problems through the application of electronics theory and concepts.  
Calibrate, test, and repair analog and digital circuitry using industry standard test equipment.

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.

Demonstrate life-long learning towards professional growth.

Negotiate and abide by the terms of agreement that define their employment.

#### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

#### Advanced Standing

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

#### Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. <sup>1</sup>	0-4
MTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement test score	0-8

**Total Prerequisite Credits** **0-16**

#### Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
EET113	Exploration of Alternative Energies	3
EET125	Electronics Fundamentals I	6
MTH63	Applied Technical Math/Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4 13
<b>Second Term</b>		
EET118	Introduction to Renewable Energy Systems (RES)	5
EET129	Introduction to Embedded Systems	3
WR115	Introduction to Expository Writing or WR121 English Composition I	3-4 11-12
<b>Third Term</b>		
EET120	Renewable Energy Systems (RES) Site Analysis and Design	4
EET126	Electronics Fundamentals II	6
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3 13



## Fourth Term

EET121	North American Board of Certified Energy Practitioners (NABCEP) Entry-level Preparation	2
EET130	Digital Fundamentals I	6
HE112	Emergency First Aid	1
—	Approved program elective	3-6
		12-15

**TOTAL PROGRAM CREDITS 49-53**

## Approved Program Electives

(3-6 credits required)

Course No.	Course Title	Credits
CIS125	Any computer applications course, CIS125 or above	variable
EET104	Fundamentals of Manufacturing Electronics	4
EET127	Exploring the Raspberry Pi	3
EET131	Digital Fundamentals II	6
EET140	Solid State Fundamentals	6
EET180	Cooperative Work Experience/Electronics	1-5
GS104	Physical Science with lab	4

<sup>1</sup> Required for graduation.

For more information contact the Electronics Technology Department:

Grants Pass or Medford	541-245-7809
Toll free in Oregon	800-411-6508, Ext. 7809
E-mail	electronics@roguecc.edu
Web address	www.roguecc.edu/Electronics
TTY	Oregon Telecom Relay Service, 711

## Sociology/Social Work Interest Associate of Arts Oregon Transfer Degree

A total of 90 credits are required to complete the Associate of Arts Oregon Transfer (AAOT) degree and 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 graduation guide 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/social work major vary at each university.

Course No.	Course Title	Credits	AAOT Category
ANTH110	Introduction to Cultural Anthropology	4	Social Science
BI101	Introduction to Biology I with lab or BI211 General Biology I with lab	4	Science
BI102	Introduction to Biology II with lab or BI212 General Biology II with lab	4	Science
MTH243	Probability and Statistics	4	Math
PSY201	General Psychology I	4	Social Science
PSY202	General Psychology II	4	Social Science
PSY215	Life Span Human Development	4	Social Science
SOC204	Introduction to Sociology	4	Social Science
SOC205	American Society	4	Social Science
SOC225	Social Problems and Solutions	4	Social Science
WR227	Technical Writing	4	Elective

### Recommended Electives:

SOC213	Race and Ethnicity in the U.S.	4	Social Science
SOC218	Sociology of Gender	4	Social Science
SOC228	Environment and Society	4	Social Science
SOC230	Introduction to Gerontology	4	Social Science
SOC243	Drugs, Crime and Addiction	4	Social Science

Note: Four courses required in the social science category. Additional courses would count as electives.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	www.eou.edu
Oregon State University	www.oregonstate.edu
Portland State University	www.pdx.edu
Oregon Tech	www.oit.edu
Southern Oregon University	www.sou.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

## Software Engineering Technology Transfer to Oregon Tech Associate of Science Degree

### 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 and graduates are guaranteed junior standing in the program. Students must work closely with advisors in their areas of interest to ensure electives are appropriate. The curriculum allows for 36 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 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 Software Engineering Technology Transfer to Oregon Tech degree is:

Students will be prepared to transfer into Oregon Tech's Software Engineering program.

### 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. In addition, students may also be required to enroll in classes that would increase their employability and success.

### 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 CS162U and CS234U for transfer.

### Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
EET129	Introduction to Embedded Systems	3
MTH111/112	College Algebra/Elementary Functions	0-8



WR115 Introduction to Expository Writing or designated placement test score 0-3

**Total Prerequisite Credits 3-18**

## General Education Requirements

Course No.	Course Title	Credits
LIB127	Introduction to Academic Research	1
MTH251	Calculus I (Differential)	5
MTH252	Calculus II (Integral)	5
MTH254	Vector Calculus	5
PH211	General Physics I (Calculus based)	5
PH212	General Physics II (Calculus based)	5
PH213	General Physics III (Calculus based)	5
PSY202	General Psychology II	4
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I	4
WR122	English Composition II	4
WR227	Technical Report Writing	4
—	Approved humanities electives <sup>1</sup>	7-8

**TOTAL GENERAL EDUCATION REQUIREMENTS 58-59**

## Core Requirements

Course	Title	Credits
CIS161U	Computer Science I (C++)	4
CIS140	Introduction to Operating Systems	4
CS162U	Computer Science II (C++)	4
CS234U	Object Oriented Programming with C++	4
CS260	Data Structures	4
EET125	Electronics Fundamentals I (DC)	5
EET130	Digital Fundamentals I	6
EET240	Microcontrollers I	5

**TOTAL CORE CREDITS 36**

**TOTAL PROGRAM CREDITS 94-95**

## <sup>1</sup> Approved Humanities Electives

(Complete 7-8 credits from the following list. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3

MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

For more information contact the Computer Science Department:

Grants Pass	541-956-7213
Medford	541-245-7527
Toll free in Oregon	800-411-6508, Ext. 7213 or Ext. 7527
email	cs@rogucecc.edu
Web address	www.rogucecc.edu/computerscience
TTY	Oregon Telecom Relay Service, 711

## Sterile Processing Technician Certificate of Completion

### About the Program

The Sterile Processing Technician three-term certificate program prepares students for work in entry-level positions in hospitals and other surgical settings. The sterile processing technician plays a vital role in maintaining the cleanliness, functionality, and inventory of health care instrumentation and equipment. They ensure that patients avoid infections through sterilizing instrumentation and equipment used in hospital procedures.

Students will be introduced to microbiology and have an understanding of infection control, the principles and practices of sterile processing and decontamination procedures, and the ability to maintain inventory control in a healthcare setting. Successful completion of the program prepares students for the Certified Registered Central Service Technician (CRCST) exam.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit [www.rogucecc.edu/GainfulEmployment](http://www.rogucecc.edu/GainfulEmployment).

### 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 Sterile Processing Technician Certificate program are:

Demonstrate basic technical skills in managing the process for surgical instrumentation sterilization, inventory control and supply chain management, and information technology as it relates to the sterile processing environment.

Demonstrate professional behaviors of caring, accountability, responsibility, respect for the quality care of patients, acceptable attitude and attire, and organization and time management skills.

Work independently in a team of central sterile processing technicians who are collaborating to maintain sterilization and storage.

Utilize critical thinking skills as a basis for clinical judgment and anticipatory decision making when managing all tasks related to sterile processing.

Effectively apply verbal, nonverbal, and written communication principles and skills in the workplace.

Maintain industry standards of quality control and safety principles in the workplace.

Uphold legal and ethical standards and adhere to principles of patient confidentiality within the health care community environment as defined by HIPAA.

### Entry Requirements

This is a competitive-entry, cohort-based program because of limited clinical space as well as the delicate balance of job opportunities in this field. Enrollment is limited.



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 be required to enroll in classes that would increase their employability and success.

Cohort students must meet certain minimum academic requirements (BT113 or WR115 or designated placement test score, CS120 or documented proficiency, and MTH60 or MTH63 or designated placement test score) before starting the program. Students must complete specific health and immunization requirements and a background check prior to starting the program, and a drug screen prior to starting the practicum experience. This screening process has an associated fee. Please visit [www.roguecc.edu/alliedhealth/spt](http://www.roguecc.edu/alliedhealth/spt) for program application details.

## 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 graduation guide or catalog for that year. Students must complete all courses on this graduation guide 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.

## Prerequisites

Course No.	Course Title	Credits
BT113	Business English I or WR115 Introductory to Expository Writing or designated placement test score	0-4
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
MTH60	Fundamentals of Algebra I or MTH63 Applied Algebra I or designated placement test score	0-4
<b>Total Prerequisite Credits</b>		<b>0-12</b>

### Required Courses

Course No.	Course Title	Credits
<b>First Term</b>		
AH100	Medical Terminology: Introduction	3
HE252	First Aid/CPR or HE112 Emergency First Aid and HE261 CPR/Basic Life Support Provider <sup>1</sup>	2-3
SPT101	Sterile Processing I	4
SPT123	Legal and Ethical Issues for Sterile Processing Technicians Approved program elective(s)	2 0-4
		11-16

### Second Term

AH105	Communication and Professional Behavior	2
BA109	Ready, Set, Work: Techniques for Landing a Job	2
BI100SB	Biology of Human Systems <sup>2</sup>	3
HCI120	Introduction to the Health Care Industry	3
SPT102	Sterile Processing II	4
		14

### Third Term

SPT170	Sterile Processing Technician Practicum and Seminar	12
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**TOTAL PROGRAM CREDITS** **37-42**

## Approved Program Electives <sup>3</sup>

(0-4 credits allowed)

BI234	Microbiology with lab	4
BT111	Conflict Management	2
CG144	Introduction to Assertiveness	1
CG155	Exploring Careers in Health Care	3
SP100	Basic Communication	3
SPAN101,102,103	First Year Spanish I, II, III	4-4-4
SRV101	Service Learning	1
WR110	Understanding English Grammar	2

<sup>1</sup> American Heart Association (AHA) Certification must remain current for the duration of the program.

<sup>2</sup> Students who have completed either BI121 and BI122 or BI231, BI232, and BI233 (the entire sequence of either series) with an equivalent "C" or better grade do not need to take BI100SB.

<sup>3</sup> Additional prerequisites may apply.

For more information regarding the program and selection process, contact the Allied Health Occupations Department:

Grants Pass or Medford. . . . . 541-245-7841  
Toll free in Oregon . . . . . 800-460-6766, Ext. 7841  
email . . . . . [alliedhealth@roguecc.edu](mailto:alliedhealth@roguecc.edu)  
Web address . . . . . [www.roguecc.edu/Alliedhealth/spt](http://www.roguecc.edu/Alliedhealth/spt)  
TTY . . . . . Oregon Telecom Relay Service, 711

## Sustainable Community Development Focus Award

The Sustainable Community Development focus award (18-23 credits) provides students with the knowledge, skills and experiences that will allow them to play a vital role in developing and strengthening their communities for 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 socially, culturally, and economically diverse groups to work together for common interests and the expansion of sustainable practices. Community development is studied holistically, including learning leadership and communication skills, how to effectively utilize the diversity inherent in American communities, and how people can live sustainably in their own locales.

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:

**Leadership and Communication:** Demonstrate the ability to communicate effectively within a group setting.

**Diversity:** Analyze the relationship between diversity and social inequality and demonstrate knowledge of ways in which diverse groups can work together.

**Sustainability:** Demonstrate the ability to apply the concept of sustainability in examining human relationships with the environment and to identify sustainable solutions to environmental problems.



## Required courses

(must be completed at RCC)

Course No.	Course Title	Credits
SOC213	Race and Ethnicity in the U.S.	4
SOC228	Environment and Society	4
SRV101	Service Learning	1-2
<b>TOTAL REQUIRED CREDITS</b>		<b>9-10</b>

## Electives

(Choose elective courses from the following):

### Leadership and Communication (3-4 credits minimum)

Course No.	Course Title	Credits
BA131	Introduction to Business Computing	4
BA214	Business Communications	4
ED120, 121, 122	Leadership I, II, III	1-3
SP111	Fundamentals of Public Speaking	4
SP115	Introduction to Intercultural Communication	4
SP218	Interpersonal Communication	4
WR227	Technical Writing	4
—	Cooperative Work Experience as approved within major <sup>1</sup>	3

### Diversity (one class, 3-4 credits)

Course No.	Course Title	Credits
ANTH110	Introduction to Cultural Anthropology	4
CJ214	Crime, Justice and Diversity	4
COMM237	Communication and Gender	4
ECE275	Anti-bias Education	3
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
HUM215/216/217/218/219	Native American Arts/Cultures	4

IS110	Introduction to International Studies I	4
REL201	World Religions	4
SOC218	Sociology of Gender	4
SOC235/HST259	The Chicano/Latino Historical Experience	4
	Cooperative Work Experience as approved within major <sup>1</sup>	3

### Sustainability (one class, 3-5 credits)

Course No.	Course Title	Credits
BI213	General Biology III with lab	4
EET113	Exploration of Alternative Energies (may not transfer)	3
EET118	Introduction to Renewable Energy Systems (may not transfer)	5
ENV111	Introduction to Environmental Science	3
GEOG100	Introduction to Physical Geography	3
GEOG110	Introduction to Cultural and Human Geography	3
REL243	Nature, Religion and Ecology	4
—	Cooperative Work Experience classes as approved within major 1	3

**TOTAL ELECTIVE CREDITS** **9-13**

**TOTAL FOCUS AWARD CREDITS** **18-23**

Note: 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 trans-fer requirement information.

<sup>1</sup> A maximum of 3 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:

Grants Pass or Medford. . . . . 541-245-7508

Toll free in Oregon . . . . . 800-411-6508, Ext. 7508

Web address . . . . . [www.roguecc.edu/programs/sustainability](http://www.roguecc.edu/programs/sustainability)

TTY . . . . . Oregon Telecom Relay Service, 711





# Continuing Education

## **[www.roguecc.edu/ContinuingEducation](http://www.roguecc.edu/ContinuingEducation)**

Continuing Education provides life-long learning opportunities to enhance fulfillment and personal success of residents in the RCC service area. Learning events are in line with and focused on the community's needs in all areas of workforce/business, private/public organizations and personal enrichment. The Continuing Education Department is a self-support unit of the college and relies on tuition from courses to support the operation and instruction of classes in the community.

Continuing Education classes and services include the following:

- Adult Foster Home Provider Training
- Art & Crafts
- Business & Finance
- Certified Production Technician
- Commercial Truck Driver Training
- Computer Training
- Culinary
- Forklift Operator Safety Training
- High School Driver Education
- Home & Garden
- Language
- Music & Theater
- Tourism/Hospitality
- Traffic Control Flagger
- Writing

## **Community Education**

**[www.roguecc.edu/CommunityEd](http://www.roguecc.edu/CommunityEd)**

541-956-7303

- Grants Pass: Redwood Campus, 3345 Redwood Hwy, A Bldg
- Medford: Riverside Campus, Higher Ed Ctr, 101 S. Bartlett
- White City: Table Rock Campus, 7800 Pacific Ave.

Community Education classes are short, non-credit classes. Many meet in evenings or Saturdays. All course listings are updated quarterly and viewable at above website.

## **Commercial Truck Driver Training**

**[www.roguecc.edu/departments/commercial-truck-driver-training](http://www.roguecc.edu/departments/commercial-truck-driver-training)**

- 541-956-7116

## **Customized Training**

**[www.roguecc.edu/Workforce/](http://www.roguecc.edu/Workforce/)**

- Jackson or Josephine counties. 541-956-7303

Customized Training provides solutions and opportunities for individuals and organizations to succeed. Training is customized to meet employers' or business owners' needs to deliver high quality outcomes.

### **Curriculum development**

Continuing Education works with business leaders to develop curriculum and delivery methods that meet the needs of the organization.

### **On-Demand Training (CE)**

CE will create training that business/organization partners need, when they need it and delivered to their place of business. Training can be delivered in a classroom environment, on site or online.

## **Driver Training**

**[www.rccdrievered.com](http://www.rccdrievered.com)**

541-956-7116

- High School Driver Training
- Young Adult Driver Training

## **Short-Term Skills Training**

**[www.roguecc.edu/Workforce/](http://www.roguecc.edu/Workforce/)**

- Jackson or Josephine counties, 541-956-7303

Josephine or Jackson Counties. Short-term skills training focuses on vocational, professional development and training that meets industry-specific criteria to enhance job skills of incumbent workers.

Workforce development activities benefit job seekers, unemployed or displaced workers, youth, incumbent workers, new entrants to the workforce, veterans, persons with disabilities and employers.

Industry-specific certifications are offered in subject areas such as Certified Production Technician, Commercial Truck Driver Training, Forklift, Flagger, and Young Adult and High School Driver Training. Training is held in a hands-on setting with state of the art equipment and trade-experienced instructors. Most trainings are offered as noncredit, certificate of completion status, but many also offer Continuing Education Units (CEUs).

Courses may be offered in a traditional classroom environment, online or in a blended format. Some short-term trainings are composed of a course or series of courses mapped to an industry-recognized certification.



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## Small Business Development Center

[www.roguecc.edu/sbdc](http://www.roguecc.edu/sbdc)

Historic City Hall, 214 SW Fourth St., Grants Pass, OR  
541-956-7494

The Small Business Development Center (SBDC) is a community-based technical assistance resource available to both existing and prospective small businesses. 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.

The RCC SBDC houses a lending library of business-related books and other resources. The SBDC also has a newly updated 15-station computer lab used for providing computer based business training.

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 IVBEC provides an accessible rural outreach center for the RCC Small Business Development 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)

[www.roguecc.edu/sbdc/sbm](http://www.roguecc.edu/sbdc/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.

## Next Level Plan (NLP)

NLP is a business service developed to help existing businesses that have achieved some level of success to take their enterprises to the next level in growing their regional, national and potentially international markets.

Businesses that seek NLP advising are assigned a team of two professional business advisors who bring a background of expertise in strategically growing and managing companies at multi-million dollar sales levels. The NLP process includes qualification, discovery, assessment, research, planning, advising and mentoring.

NLP advisors have proven experience in corporate development, strategic planning, business planning, sales and distribution, product development, finance/accounting, capital acquisition, operations management, problem solving and visioning. In addition to the free, in-depth advising and mentoring, the NLP team provides access to applied market research tools and government contracting assistance. Services are made available at no cost through the SBDC's collaborative funding sources.



## These courses are offered as Dual Credit

These courses may be offered in high schools for Dual Credit and taught by high school instructors.

Course Number	Course Title	Credits
AH100	Medical Terminology: Introduction	3
AM111	Electricity for Automotive Technicians	7
AM120	Automotive Maintenance Practices	6
AM122	Gasoline Engines Rebuild	7
AM190	Automotive Repair Lab I	4
BA101	Introduction to Business	4
BA131	Introduction to Business Computing	4
BA218	Personal Finance	3
BA223	Principles of Marketing	3
BI101	Introduction to Biology I with lab	4
BI102	Introduction to Biology II with lab	4
BI103	Introduction to Biology III with lab	4
BI121	Elementary Anatomy and Physiology I with lab	4
BT160	Business Math	4
BT250	Entrepreneurship	3
CG105	Finding the Money: Scholarship Essay Writing	1
CG140	Career Development	3
CG147	Decision Making	1
CG155	Exploring Careers in Health Care	3
CHEM104	Introductory Chemistry with lab and Recitation	5
CJ101	Introduction to Criminology	4
CJ110	Introduction to Law Enforcement	4
CJ120	Introduction to the Judicial Process	4
CJ130	Introduction to Corrections	4
CIS125DB	Data Base Management Systems	3
CIS125SS	Spreadsheet Applications	4
CIS125WW	Word Processing Applications	3
CIS140	Introduction to Operating Systems	4
CIS179	Introduction to Networks	4
CIS195	Web Authoring I	4
CS120	Concepts in Computing I	4
DDM120	Digital Graphic Design I	3
DDM140	Electronic Publishing Applications I	3
DDM150	Computer Illustration (Illustrator)	3
DDM160	Digital Imaging (Photoshop)	3
DDM180	Introduction to Digital Video	3
DDM181	Advanced Digital Video	3
DDM190	Introduction to Animation (Adobe Animate)	3
DS120	Diesel Practices	5
ECE125	Early Childhood Development	3
ECE126	Early Childhood Education Best Practices	3
ECE135	Applied Child Development	3
ECE136	Early Childhood Education: A Professional Overview	3
ECE151	Guiding Children in Group Settings	3
ECE161	Infant/Toddler Development	3
ECE163	Preschool/Primary Development	3
ECE175	Developmentally Appropriate Practices	3
ECON115	Introduction to Economics	3
ECON201	Principles of Microeconomics	4
ECON202	Principles of Macroeconomics	4
ED170	Introductory Practicum	1 to 2
EET101	Introduction to Electronics	3
EET112	Introduction to Mechatronics	3
ENG104	Introduction to Literature (Fiction)	4
ENV111	Introduction to Environmental Science	3
GS104	Physical Science w/Lab	4
HCI120	Introduction to the Health Care Industry	3
HE112	Emergency First Aid	1

Course Number	Course Title	Credits
HE252	First Aid/CPR	3
HE253	Wilderness First Aid	3
HE261	CPR/Basic Life Support Provider	1
HST104	World Civilizations: Prehistory - Middle Ages	4
HST105	World Civilizations: Byzantium - Present	4
HST201	U.S. History through Reconstruction	4
HST202	U.S. History: Post-Reconstruction - Present	4
MEC102	Basic Hand Tools	3
MEC103	Industrial Safety	1
MET101	Mechanical Drafting	3
MET105	Blueprint Reading-Mechanical	3
MET121	Computer Aided Drafting I: Mechanical (SolidWorks)	3
MET122	Computer Aided Drafting II: Mechanical (SolidWorks)	3
MET123	Computer Aided Drafting III: Mechanical (SolidWorks)	3
MFG101	Introduction to Manufacturing	3
MFG121	Manufacturing Processes I	4
MTH63	Applied Algebra I	4
MTH65	Fundamentals of Algebra II	4
MTH95	Intermediate Algebra	4
MTH96	Applied Algebra II	4
MTH111	College Algebra	4
MTH112	Elementary Functions	4
MTH251	Calculus I (Differential) with lab	5
MTH252	Calculus II (Integral) with lab	5
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111	Music Theory and Aural Skills I	4
MUS112	Music Theory and Aural Skills II	4
MUS113	Music Theory and Aural Skills III	4
MUS135	Beginning Hand Drums	2
MUS206	Introduction to Rock Music	3
OAL150	Outdoor Living Skills	2
OAL223	Wilderness Navigation	2
OAL250	Foundations of Outdoor Adventure and Leadership	3
PE185BA	Backpacking	1
PE185CC	Snow Skiing/Snowboarding	1
PE185D	Physical Conditioning/Weight Training	1
PE185HA	Hiking Oregon	1
PE185K	Core and Cardio	1
PE185R	Beginning Rock Climbing	1
PE185RC	Rock Climbing Adventure	1
PE185RR	River Rafting Adventure	1
PE185SK	Sea Kayaking the Oregon Coast	1
PE185W	Winter Survival and Snow Camping	1
PE185WK	White Water Kayaking	1
PS201	U.S. Government I	3
PS202	U.S. Government II	3
PSY201	General Psychology I	4
PSY202	General Psychology II	4
SOC204	Introduction to Sociology	4
SOC205	American Society	4
SP111	Fundamental of Public Speaking	4
SPAN101	First Year Spanish I	4
WLD101	Welding Fundamentals I	3
WLD102	Welding Fundamentals II	3
WLD104	Blueprint Reading-Mechanical	3
WR115	Introduction to Expository Writing	3
WR121	English Composition I	4



# Course Descriptions

[www.roguecc.edu/CourseDescriptions](http://www.roguecc.edu/CourseDescriptions)

## ALLIED HEALTH

### Career and Technical Courses

#### AH100 3 credits

##### Medical Terminology: Introduction

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, usage, and pronunciation. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores.

#### AH101 3 credits

##### Medical Assistant I: Administrative

Covers a variety of front office topics for medical assistants including communication skills and office professionalism, teamwork and critical thinking skills, work ethics and time management, and diversity and cultural sensitivity. Also includes an overview of medical assisting, record-keeping, documentation through EPIC (electronic health records software), and clinic management. Students will be responsible for knowing about medical law, patients' rights, HIPAA, and bioethics as related to medical assisting and medical clinics. Billing and coding, how to schedule patients, and triage for patient check in are also included, as well as basic medical terminology in Spanish. The American Association of Medical Assistants (AAMA) certification standards are integrated throughout the course. Prerequisite: Admission to the Medical Assistant program.

#### AH102 3 credits

##### Medical Assistant II: Clinical

Covers back office topics for medical assisting such as how to communicate effectively with patients including active listening and dealing with difficult patients, and how a patient's brain reacts to illness and how that influences communication. Appropriate personal protective equipment and infection control, including the infection cycle of bacteria and viruses, is also included. Several specific infectious diseases will be discussed. Students will learn how to collect a patient's history, check patients into a clinic, and prepare them for their appointments or procedures. Instruction on patient care, taking vitals, treatment and diagnosis assistance, and giving medication will be addressed, as well as how to perform specific screening tests. There will be a review of the EHR and EPIC computer programs, and emergency plans with OSHA, MSDS and safety in the clinic. Prerequisite: Admission to the Medical Assistant program.

#### AH103 3 credits

##### Medical Assistant III: Specialty

Covers specialty clinic front and back office topics for medical assisting including how to effectively communicate with geriatric and young children in the medical setting. Students will learn about the challenges involved in working with patients with varying brain capacity and function and how to best communicate treatment to them. Nutrition and its effects on patients' brains will be discussed as well as how to integrate it into a treatment plan. This class also focuses on teaching students about the many types of specialty clinics and how they differ

from each other in treatment and diagnosis. Students will also learn how to perform specialty clinical lab techniques as well as various WAIVE testing. Also introduced are 12-lead electrocardiography training and x-ray imaging as well as surgical set up and sterilization techniques. Finally, students will learn about clinic management and human resources. Prerequisite: Admission to the Medical Assistant program.

#### AH104 3 credits

##### Phlebotomy w/Lab

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, 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 3 years, before certification renewal is required. Prerequisite: Admission into the Phlebotomy or Medical Assistant programs.

#### AH105 2 credits

##### Communication and Professional Behavior

Prepares students for practicum experiences and employment in the healthcare industry by understanding and practicing communication skills (oral and written), workplace ethics, and professional behavior. Prerequisite: Admission to any Allied Health Occupations Certificate program.

#### AH110 3 credits

##### Medical Terminology: Clinical

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. Prerequisite: Admission to an Allied Health program; AH100 recommended.

#### AH120 4 credits

##### Medical Administrative Assistant I

The first of two courses that prepare students for careers as medical administrative assistants. Introduces the concepts and skills related to patient and facility scheduling, patient intake, office logistics, privacy, and basic workplace safety. Prerequisite: Admission into the Medical Administrative Assistant program.

#### AH121 4 credits

##### Medical Administrative Assistant II

Builds upon the themes and skills introduced in AH120. Focuses on the integration of the skills for the medical office setting and covers more in-depth issues in patient privacy, patient rights and responsibilities, and safety in the workplace. Prerequisite: AH120.

#### AH123 2 credits

##### Legal and Ethical Issues for Medical Personnel

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. Prerequisite: Admission into the Medical Administrative Assistant or Medical Assistant program.

#### AH130 4 credits

##### Concepts in Medical Insurance and Billing

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. Prerequisite: Admission into any Allied Health Occupations program.

#### AH140 4 credits

##### Basic CPT Coding

Introduces students to the basic concepts and methodology associated with Current Procedural Terminology (CPT) coding including terminology, formatting, basic guidelines, and surgical package concepts. CPT is a set of codes and descriptions developed by the American Medical Association to standardize the identification of services commonly provided by physicians. Additionally, the role of CPT in Healthcare Common Procedure Coding System (HCPCS) coding and the use of codes in reimbursement management will be introduced. Prerequisite: Admission into the Medical Coding Specialist program.

#### AH141 4 credits

##### Basic Coding in ICD-10-CM

Accurately identifies the reason for the physician service and supports the medical necessity of services rendered. This course earmarks the various tables and volumes used, indicates the usage of ICD codes for statistical and tracking purposes, and identifies the unique skill sets specific to the professional coding setting. Emphasis is placed on the principles of coding and classification systems used in the assignment of valid diagnostic and/or procedural codes. Prerequisite: Admission into the Medical Coding Specialist program.

#### AH165 2 credits

##### Introduction to Pharmacology for Pharmacy Technicians

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. Prerequisites: BT113 or WR115, and MTH20, or designated placement test scores.

#### AH170, AH171

##### 2 to 8 variable credits

##### Medical Assistant Practicum and Seminar

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; an orientation seminar to discuss expectations for the term; a mid-term seminar to discuss current activities and exchange details on experiences; and a concluding seminar to reflect on work experiences. Seminars are attended and moderated by an instructor, who uses the feedback gained to evaluate current practicum experiences and improve future practicum experiences. Students will be expected to expand their skill set during the sequence. Prerequisites: Admission into the Medical Assistant or Medical Assistant: Phlebotomy programs.

## ANTHROPOLOGY

### Lower Division Collegiate

#### **ANTH110 4 credits** **Introduction to Cultural Anthropology**

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. Prerequisite: BT113 or WR115 or designated placement test score.

#### **ANTH150 4 credits** **Introduction to Archaeology**

Provides an introduction to the science of archaeology: its history, methods, and theory. Citing examples from the 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. Fulfills both the social science and cultural literacy requirements within the Associate of Arts Oregon Transfer degree. Prerequisite: BT113 or WR115 or designated placement test score.

#### **ANTH199 Variable credit** **Special Studies: Anthropology**

Presents special topics of study in anthropology through workshop, seminar, research, and/or independent study formats. Content varies according to department needs and demand.

## APPRENTICESHIP

### Career and Technical Courses

#### **APR105 variable credit** **Apprenticeship Credit for Prior Learning**

Credit awarded for documented work-based learning for registered apprentices and journey persons.

#### **APR107 18 credits** **Apprenticeship: HVAC**

Represents six required courses offered in six terms during the first two years of the HVAC Apprenticeship program. These courses will supplement on-the-job training with

technical training required for trade comprehension, application and practice. Instruction includes the physiology of heating and cooling, modern air conditioning and refrigeration installation, troubleshooting and repair, internal and external controls common to air conditioning, technical mathematics, schematics and electrical circuits. Potential students must be Bureau of Labor and Industries (BOLI)-registered apprentices or electricians holding a journey-level card.

#### **APR111 24 credits** **Apprenticeship: Plumbers**

Represents six required courses offered in six terms during the first two years of the Plumber Apprenticeship program. These courses will supplement on-the-job training with technical training required for trade comprehension, application and practice. Instruction includes introduction to basic plumbing practices, vocabulary, operation of common equipment of the trade, technical mathematics, creation and interpretation of blueprints, piping and fixture installation and installation of DWV systems. Potential students must be Bureau of Labor and Industries (BOLI)-registered apprentices or plumbers holding a journey-level card.

#### **APR116 18 credits** **Apprenticeship: Millwright**

Represents six required courses offered in six terms during the first two years of the Millwright Apprenticeship program. These courses will supplement on-the-job training with technical training required for trade comprehension, application and practice. Instruction will include technical mathematics, principles of basic electricity and power transmission, carpentry skills, operation and maintenance of boilers, and cutting and welding techniques used in fabrication. Potential students must be Bureau of Labor and Industries (BOLI)-registered apprentices or millwrights holding a journey-level card.

#### **APR118 18 credits** **Apprenticeship: Sheet Metal**

Represents six required courses offered in six terms during the first two years of the Sheet Metal Apprenticeship program. These courses will supplement on-the-job training with technical training required for trade comprehension, application and practice. Topics within the courses include safety practices, technical mathematics, drafting for lay out and installation and basic fabrication techniques. Potential students must be Bureau of Labor and Industries (BOLI)-registered apprentices or sheet metal workers holding a journey-level card.

#### **APR120 24 credits** **Apprenticeship: Boiler Plant Operator**

Represents six required courses offered over six terms during the two years of the Boiler Plant Operator Apprenticeship program. These courses will supplement on-the-job training with technical training required for trade comprehension, application and practice. Instruction includes theory and practice of boiler operation, mechanics of steam-generated power, characteristics of a variety of boiler designs, steam turbine operation, instrumentation and control devices, and installation/maintenance of a heating boiler. Potential students must be Bureau of Labor and Industries (BOLI)-registered apprentices or boiler operators holding a journey-level card.

#### **APR127 26 credits** **Apprenticeship: Electrical**

Represents seven courses offered over six terms during the first two years of the Electrical Apprenticeship program. Courses in this series will supplement on-the-job training with technical training required for trade comprehension, application and practice. Instruction includes electrical theory and circuits, applied mathematics and the principles of power distribution. Advanced topics include operation of single- and three-phase transformers, motors and alternators, DC motors and generators; calculations and tables required in sizing conductors, branch circuits, breakers, junction boxes, motors, generators and transformers. Potential students must be Bureau of Labor and Industries (BOLI)-registered apprentices or electricians holding a journey-level card.

#### **APR129 21 credits** **Apprenticeship: Airframe and Power Plant Mechanics**

Represents four courses offered over four terms during the 30-month Airframe and Power Plant Mechanic Apprenticeship program. Supplements on-the-job training with technical training required for trade comprehension, application and practice. Instruction includes an overview of aviation, applied electronics, and aircraft systems. Potential students must be Bureau of Labor and Industries (BOLI)-registered apprentices or airframe and power plant mechanics holding a journey-level card.

#### **APR207 19 credits** **Apprenticeship: HVAC**

Represents six required courses offered over six terms during years three and four of the HVAC Apprenticeship program. These courses will supplement on-the-job training with technical training required for trade comprehension, application and practice. Instruction includes techniques to determine heating and cooling systems based on heat-loss calculations, servicing refrigeration systems, making service estimates, characteristics and installation requirements of a variety of air conditioning systems, advanced control systems, building codes and preparation to successfully complete the HVAC-JATC Journeyman's license test. Potential students must be Bureau of Labor and Industries (BOLI)-registered apprentices or electricians holding a journey-level card.

#### **APR211 24 credits** **Apprenticeship: Plumbers**

Represents six required courses offered in six terms during years three and four of the Plumber Apprenticeship program. These courses will supplement on-the-job training with technical training required for trade comprehension, application and practice. Instruction includes water supply systems, plumbing DWV systems, backflow prevention techniques, review of the Oregon Plumbing Code and preparation for successful passage of the Oregon plumbing license test. Potential students must be Bureau of Labor and Industries (BOLI)-registered apprentices or plumbers holding a journey-level card.

#### **APR216 16 credits** **Apprenticeship: Millwright**

Represents six required courses offered in six terms during years three and four of the Millwright Apprenticeship Program. These courses will supplement on-the-job training with technical training required for trade comprehension, application and practice. Instruction will include the



theory and practice of metal removal, operation of lathes, mills and grinders, drafting, rigging systems and practices and theory and application of hydraulics and pneumatics. Potential students must be Bureau of Labor and Industries (BOLI) registered apprentices or millwrights holding a journey-level card.

### **APR218 18 credits**

#### **Apprenticeship: Sheet Metal**

Represents six required courses offered in six terms during years three and four of the Sheet Metal Apprenticeship program. These courses will supplement on-the-job training with technical training required for trade comprehension, application and practice. Topics covered are advanced techniques in mathematical calculations, duct design, field installation, layout, blueprint interpretation, fabrication of specialty items and basic welding required in sheet metal fabrication. Potential students must be Bureau of Labor and Industries (BOLI)-registered apprentices or sheet metal workers holding a journey-level card.

### **APR227 24 credits**

#### **Apprenticeship: Electrical**

Represents six courses offered over six terms during year three and four of the Electrical Apprenticeship program. Required courses are based on the apprentice's field of study. Courses in this series will supplement on-the-job training with technical training required for trade comprehension, application and practice. Courses familiarize the apprentice with the current National Electrical Code (NEC) and include NEC layout, calculations, trade safety, fill, voltage drops, feeders, branch circuits, and grounding. The final three courses include advanced applications and review in preparation for passage of the Oregon Electrical License Examination. Potential students must be Bureau of Labor and Industries (BOLI)-registered apprentices or electricians holding a journey-level card.

### **APR229 16 credits**

#### **Apprenticeship: Airframe and Power Plant Mechanics**

Represents three courses offered in the last three terms of the 30-month Airframe and Power Plant Mechanic Apprenticeship program. These courses will supplement on-the-job training with technical training required for trade comprehension, application and practice. Instruction includes trouble-shooting of power plant systems and flight controls, structural inspections and repair and principles of avionics. Potential students must be Bureau of Labor and Industries (BOLI)-registered apprentices or airframe and power plant mechanics holding a journey-level card.

## **ART**

### **Lower Division Collegiate**

### **ART115 3 credits**

#### **Basic Design (Composition)**

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, style and meaning. Students work primarily in black and white media. 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.

### **ART116 3 credits**

#### **Basic Design (Color Theory)**

Provides instruction in the basic theories and practice of using color through coursework addressing both concept and experience, and also provides a foundation in the vocabulary and practice of color theory. Assignments will deal with color mixing, describing space and shape, basic color relationships, the use of color in image development, and understanding how color relationships affect psychological and visual perception, primarily in subtractive methods. Students explore the analysis of composition with a focus on the use of color and its effects to meet individually-determined designs. This course satisfies foundation core requirements for art and design and digital media majors.

### **ART131 3 credits**

#### **Introduction to Drawing (Value)**

Explores basic art processes, techniques and media usage, and provides the foundation for the development of creative thinking and self-expression. Introduces basic principles, methods and media with an emphasis on value drawing. Designed to expand aesthetic awareness, the course assists students in developing a personal visual language by presenting skills to communicate in today's art world. Through a combination of mini-lectures, demonstrations, studio work, and group discussions, the concepts of light, form, spatial depth, and composition are explored.

### **ART132 3 credits**

#### **Introduction to Drawing (Line)**

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.

### **ART133 3 credits**

#### **Introduction to Drawing (Mixed Media)**

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.

### **ART197 3 credits**

#### **Gallery Design and Management**

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. Prerequisites: ART204, ART205 or ART206, WR122, and at least 3 credits in studio art courses.

### **ART198 Variable credit**

#### **Independent Study: Art (Portfolio)**

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. Prerequisites: ART204, ART205 or ART206 and WR122, and at least 15 credits of studio art coursework.

### **ART199 Variable credit**

#### **Special Studies: Art**

Emphasizes study in a variety of art disciplines to fulfill specific educational goals.

### **ART204 4 credits**

#### **History of Art I**

Allows both art and non-art majors 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. May require use of the Internet and online college resources. Prerequisite: BT113 or WR115 or designated placement test score.

### **ART205 4 credits**

#### **History of Art II**

Allows both art and non-art majors 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 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. May require use of the Internet and online college resources. Prerequisite: BT113 or WR115 or designated placement test score.

### **ART206 4 credits**

#### **History of Art III**

Allows both art and non-art majors 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. May require use of the Internet and online college resources. Prerequisite: BT113 or WR115 or designated placement test score.



### **ART222 3 credits**

#### **Graphic Design (Typography)**

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.

### **ART234 3 credits**

#### **Figure Drawing I**

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 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 knowledge of the human figure in art.

### **ART235 3 credits**

#### **Figure Drawing II**

Continues development of skills in drawing the human primarily from the live model. Emphasis is on developing techniques and facility in representing the figure and on individual style, intent and expression. The course explores historical and contemporary approaches to figurative art as well as creative composition and aesthetic philosophy. Prerequisite: ART234.

### **ART236 3 credits**

#### **Figure Drawing III**

Advances study in the use of the human form in art. Students are challenged to become aware of their individual interests and areas for development, and to set and achieve their own artistic goals. Study of the context of contemporary figurative work, composition, problem solving, and creating finished works of art is emphasized. Prerequisite: ART235.

### **ART237 3 credits**

#### **Illustration (Black and White Media)**

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.

### **ART238 3 credits**

#### **Illustration (Color Media)**

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 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.

### **ART239 3 credits**

#### **Illustration (Perspective)**

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.

### **ART245 3 credits**

#### **Drawing for Graphic Design**

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. Required as part of the Design and Digital Media certificate and degree programs. Prerequisite: ART237 or ART238.

### **ART253 3 credits**

#### **Ceramics I**

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.

### **ART254 3 credits**

#### **Ceramics II**

Continues ART253, 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. Prerequisite: ART253.

### **ART255 3 credits**

#### **Ceramics III**

Continues ART254 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. Prerequisite: ART254.

### **ART257 3 credits**

#### **Beginning Jewelry and Metalsmithing**

Explores basic metalsmithing processes, techniques and material usage, and provides a foundation for the development of creative thinking and self-expression. This course is designed for students with limited or no previous jewelry/metalsmithing experience. Introduces tools and techniques used in working with non-ferrous metals through a combination of demonstrations, studio work and group discussions. Further design awareness, develops step-by-step metals techniques and craftsmanship skills, and explores three-dimensional form as functional or wearable art.

### **ART258 3 credits**

#### **Intermediate Jewelry and Metalsmithing**

Explores basic metalsmithing processes, techniques and material usage, and provides a foundation for the development of creative thinking and self-expression. This course is designed for students with limited or no previous jewelry/metalsmithing experience. Introduces tools and techniques used in working with non-ferrous metals through a combination of demonstrations, studio work and group discussions. Further design awareness, develops step-by-step metals techniques and craftsmanship skills, and explores three-dimensional form as functional or wearable art. Prerequisite: ART257 or equivalent.

### **ART259 3 credits**

#### **Advanced Jewelry and Metalsmithing**

Explores basic metalsmithing processes, techniques and material usage, and provides a foundation for the development of creative thinking and self-expression. This course is designed for students with limited or no previous jewelry/metalsmithing experience. Introduces tools and techniques used in working with non-ferrous metals through a combination of demonstrations, studio work and group discussions. Further design awareness, develops step-by-step metals techniques and craftsmanship skills, and explores three-dimensional form as functional or wearable art. Prerequisite: ART258 or equivalent.

### **ART276 3 credits**

#### **Sculpture I**

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.

### **ART277 3 credits**

#### **Sculpture II**

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. Prerequisite: ART276.

### **ART278 3 credits**

#### **Sculpture III**

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. Prerequisite: ART277.



### **ART280 Variable credit**

#### **Cooperative Work Experience/Art**

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. Prerequisite: Student must make arrangements with department prior to enrolling in this course.

### **ART281 3 credits**

#### **Painting I**

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.

### **ART282 3 credits**

#### **Painting II**

Continues concepts and techniques introduced in ART281. 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. Prerequisite: ART281 or equivalent.

### **ART283 3 credits**

#### **Painting III**

Continues the methods of instruction introduced in ART281 and ART282, with emphasis on techniques and concepts of realism, consideration of value structure, sophistication of color scheme, and illusion of imagery. Prerequisite: ART282 or equivalent.

### **ART287 3 credits**

#### **Aqueous Media/Airbrush I**

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.

### **ART288 3 credits**

#### **Aqueous Media/Airbrush II**

Continues techniques and methods used in ART287 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. Prerequisite: ART287.

### **ART294 3 credits**

#### **Watercolor I**

Introduces basic transparent watercolor and basic painting processes and techniques for the development of creative thinking and self-expression. Designed to expand aesthetic awareness and develop a personal visual language along

with the skills to communicate in today's art world. A combination of mini-lectures, demonstrations, studio work and group discussions emphasize the characteristics of the materials, color theory, and a variety of painting styles and imagery.

### **ART295 3 credits**

#### **Watercolor II**

Continues the exploration of basic transparent watercolor techniques along with the introduction of more experimental approaches. Designed to expand aesthetic awareness and develop a personal visual language along with the skills to communicate in today's art world. Students are required to demonstrate mastery of basic painting processes and techniques that provide the foundation for the development of creative thinking and self-expression. This course is a combination of lectures, demonstrations, studio work and group discussions that emphasize the characteristics of the materials, color theory and a variety of painting styles and imagery. Prerequisite: ART294.

### **ART296 3 credits**

#### **Watercolor III**

Offered in a semi-directed format allowing students to develop a creative thinking and self-expression approach to painting style and imagery. Designed to expand aesthetic awareness and develop a personal visual language along with the skills to communicate in today's art world. Course assignments explore series development, media experimentation and mastering techniques. 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. Prerequisite: ART295.

### **ART299 Variable credit**

#### **Special Studies: Art**

Emphasizes advanced study in a variety of art disciplines (drawing, watercolor, ceramics, sculpture, painting, etc.) to fulfill specific educational goals and further development in both technique and creative processes.

## **AUTOMOTIVE TECHNOLOGY**

### **Career and Technical Courses**

### **AM111 7 credits**

#### **Electricity for Automotive Technicians**

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 (may be waived for equivalent work experience and ASE Electrical Systems certification). Prerequisites: AM120 and AM122.

### **AM120 6 credits**

#### **Automotive Maintenance Practices**

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. Prerequisites: MTH20 and WR90 or WR91, or designated placement test scores.

### **AM122 7 credits**

#### **Gasoline Engines Rebuild**

Reviews theory and construction of various gasoline internal combustion engines and how to rebuild, service, inspect, and repair them. Prerequisites: MTH20 and BT113 or WR115, or designated placement test scores.

### **AM131 7 credits**

#### **Engine Dynamics and Diagnosis**

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. Prerequisite: AM120 or AM122.

### **AM141 6 credits**

#### **Manual Transmissions and Transaxles**

Covers theory of operation, maintenance, diagnosis, and repair of manual transmissions and transaxles, clutches, drive axles, and four-wheel and all-wheel drive systems. Prerequisites: AM111 and AM120.

### **AM151 6 credits**

#### **Automotive Brake Systems**

Covers the principles of brake operation, function, and design as well as troubleshooting, overhauling, repairing, and servicing of automotive brake systems. Prerequisites: AM111 and AM120.

### **AM160 6 credits**

#### **Automotive Suspension and Steering Systems**

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. Prerequisites: AM111 and AM120.

### **AM190 4 credits**

#### **Automotive Repair Lab I**

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. Prerequisites: AM111 and AM120.

### **AM199 1 to 8 credits**

#### **Selected Topic Workshop**

Focuses study in a variety of mechanical technology topics to fulfill specific educational goals. Prerequisites: AM111 and AM120 and a declared major in the Automotive Technology program.

### **AM210 3 credits**

#### **Mechanical Careers Development**

Acquaints students with industry expectations related to professionalism. Includes effective employee/employer relations, and job search skills. Course designed for second-year students. Prerequisites: AM111 and AM120.

### **AM232 7 credits**

#### **Computerized Engine Management Systems**

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. Prerequisite: AM131.



### **AM233 7 credits**

#### **Advanced Automotive Computer Systems**

Topics include OBDII systems, network computer systems, airbag system diagnosis, anti-lock brake diagnosis, electronic instrument clusters, security systems, and various other automotive computer systems. Prerequisite: AM232.

### **AM242 7 credits**

#### **Automatic Transmissions and Transaxles**

Covers theory of operation, diagnosis, maintenance, and repair of automotive automatic transmissions and transaxles. Prerequisite: AM141.

### **AM252 4 credits**

#### **Advanced Diagnostic Lab**

Applies basic electronic theories and concepts to advanced diagnosis and repair of modern microprocessor-controlled automobile systems. A review of basic electrical fundamentals moves rapidly into more advanced electronic devices and circuits. This course can be modified day-to-day in order to review prior course content. Designed for second year students in their final term. Prerequisites: AM111 and AM232 and AM233.

### **AM270 5 credits**

#### **Air Conditioning for Automotive Technicians**

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. Prerequisites: AM111 and AM120.

### **AM280 Variable credit**

#### **Cooperative Work Experience/Automotive**

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. Prerequisite: Student must be an Automotive Technology major and make arrangements with the department prior to enrolling in this course.

### **AM290 4 credits**

#### **Automotive Repair Lab II**

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. Prerequisite: AM190 or completion of 3 credits of AM280.

## **BIOLOGY**

### **Lower Division Collegiate**

### **BI100GB 3 credits**

#### **Introductory Biology**

Explores the principles of biology including the chemi-

cal and cellular level of organisms, the development and function of organismal structures, and the interaction of organisms in ecosystems. Designed for students who are not science majors and do not need a laboratory science course. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **BI100SB 3 credits**

#### **Biology of Human Body Systems**

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. Prerequisite: RD90 or WR91 or designated placement test score.

### **BI101 4 credits**

#### **Introduction to Biology I w/Lab**

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. Prerequisites: MTH60 and RD90 or WR91 or designated placement test scores.

### **BI102 4 credits**

#### **Introduction to Biology II w/Lab**

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. Prerequisite: BI101 recommended.

### **BI103 4 credits**

#### **Introduction to Biology III w/Lab**

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. Prerequisite: BI101 recommended.

### **BI121 4 credits**

#### **Elementary Anatomy and Physiology I w/Lab**

Covers basic anatomy and physiology for Massage Therapy and Practical Nursing program students. Includes body organization, basic chemistry, cell structure and function, tissues, integumentary system, skeletal system, nervous system, and reproductive system. Dissection required. Students must enroll in lecture and laboratory sections. Prerequisites: RD90 or WR91 or designated placement test score. AH100 and CHEM104 are highly recommended.

### **BI122 4 credits**

#### **Elementary Anatomy and Physiology II w/Lab**

Covers essential anatomy and physiology of the following body systems: cardiovascular, endocrine, lymphatic, immune, respiratory, digestive, and urinary-electrolytes and reproductive. Dissection required. Students must enroll in lecture and laboratory sections. Prerequisites: BI121. AH100 and CHEM104 are highly recommended.

### **BI199 Variable credit**

#### **Special Studies: Biology**

Selected topics of study in biology are offered on demand through workshops, seminars, lecture, lab, and/or independent study format. Prerequisite: Student must be a Biology major.

### **BI211 4 credits**

#### **General Biology I w/Lab**

Designed primarily for pre-professional students majoring in the biological sciences, science education, and related allied health fields. Covers the molecular and cellular aspects of biology including the scientific method, cell structure and function, biological membranes, cell division, inorganic, organic and biochemistry, enzymes, cellular respiration, biochemical genetics, basic heredity, genetic engineering and DNA-RNA-protein synthesis mechanisms. Students who take CHEM104 or its equivalent before BI211 are better prepared for the rigors of this class. Prerequisites: MTH60 and RD90 or WR91, or designated placement test scores. CHEM104 is highly recommended.

### **BI212 4 credits**

#### **General Biology II w/Lab**

Designed primarily for pre-professional students majoring in the biological sciences, science education, and related allied health fields. Covers the basic principles of Darwinian evolution, evolution of populations and speciation; describes the structure, function and impact of viruses and bacteria; and provides an overview of the protist and animal kingdoms with emphasis on the major characteristics and importance of organisms in the taxa of each kingdom. Prerequisite: BI211.

### **BI213 4 credits**

#### **General Biology III w/Lab**

Designed primarily for pre-professional students majoring in the biological sciences, science education, and related allied health fields. Topics include discussion of the fungal and plant kingdoms; the structure, growth, function and differentiation of leaves, roots, stems, flowers and plant reproduction; and basic principles of ecology that includes communities, population, ecosystems, the ecosphere and human impact on the environment. Prerequisite: BI211 or BI212.

### **BI231 4 credits**

#### **Anatomy and Physiology I w/Lab**

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. Prerequisites: BI113 or WR115 or designated placement test scores; and BI211 or approved Allied Health biology course. CHEM104 is highly recommended.



**BI232 4 credits****Anatomy and Physiology II w/Lab**

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. Prerequisite: BI231. CHEM104 is highly recommended.

**BI233 4 credits****Anatomy and Physiology III w/Lab**

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. Prerequisite: BI231 or BI232. CHEM104 is highly recommended.

**BI234 4 credits****Microbiology w/Lab**

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. Prerequisite: BI211. CHEM104 is highly recommended.

**BI280 Variable credit****Cooperative Work Experience/ Biology**

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. Prerequisite: Student must make arrangements with department prior to enrolling in this course.

**BUSINESS ADMINISTRATION****Lower Division Collegiate****BA101 4 credits****Introduction to Business**

Introduces the history of business and economic systems in America. Covers the structure of business organizations by taking students through each of the functional areas of business: management, marketing, finance and accounting. The purpose of the class is to familiarize students with basic business principles and concepts through the use of terminology and examples. Students will also become familiar with the major sections of a basic business plan and the key elements found in each section. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

**BA109 2 credits****Ready, Set, Work: Techniques for Landing a Job**

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 enrolling in this class. All students, both in-class and online, must complete an in-person, panel interview to pass the class (telephone or video-conferencing interviews do not meet this requirement). Prerequisites: BA131 or CS120 or CIS120, and BT113 or WR115.

**BA131 4 credits****Introduction to Business Computing**

Covers basic computer applications for business. Students will gain hands-on experience with Microsoft Office 2016 applications using file management, word processing, spreadsheet, media presentation, and desktop information management software to create a variety of business documents, spreadsheets, and PowerPoint slide shows. Students must have access to the following Microsoft applications: Word 2016, Excel 2016, and PowerPoint 2016. Prerequisite: CIS60 as needed. Corequisites: BT113 or WR115, and MTH20.

**BA177 3 credits****Payroll and Tax Procedures**

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. Prerequisites: BA131 and BA211 or BT151. BA285 or CS125SS/CIS125SS is also recommended.

**BA199 Variable credit****Special Studies: Business**

Offers selected topics of study in business through workshop, seminar, and independent study formats. Prerequisite: Student must be a Business major.

**BA206 3 credits****Management Fundamentals**

Emphasis is on the four functions of management (planning, organizing, directing and controlling) 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. Exposure to motivation and leadership theories, managing human resources, working in teams, and evaluation of the planning process are included. Prerequisite: BA101. BT101 and BT102 are also recommended.

**BA211 4 credits****Financial Accounting I**

Introduces financial accounting theory including the accounting cycle, analysis and recording of transactions, and reporting financial information in accordance with generally accepted accounting principles (GAAP). Includes accounting for cash, receivables, long-term assets, inventory, internal controls, ethics and accounting technology ecosystems. Prerequisites: BA131 and BT160 or higher level math.

**BA212 4 credits****Financial Accounting II**

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. Prerequisite: BA211.

**BA213 4 credits****Managerial Accounting**

Covers the preparation of the statement of cash flows and financial statement analysis, the foundations of management accounting including various types of business enterprise cost accounting systems, analyzing cost/volume/profit relationships, management planning and budgeting, evaluating performance, and capital investment decisions. Uses word processing, spreadsheet, and general ledger software when applicable. Prerequisite: BA212.

**BA214 4 credits****Business Communications**

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. Prerequisites: BA131 or CS120/ CIS120 and BT114 or WR121. Students will need internet access and a working email account. CS125WW/ CIS125WW is also recommended. Corequisite: LIB127.

**BA218 3 credits****Personal Finance**

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, long-term, and automobile insurance; preparing a personal financial plan; wise use of credit; financial institutions; identity theft; bankruptcy; fundamentals of investing in stocks and bonds; retirement planning; and estate planning. Prerequisites: BT160 and WR90 or WR91 or designated placement test score.

**BA223 3 credits****Principles of Marketing**

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. Prerequisites: BT113 or WR115 or designated placement test score. BA101 is recommended.

**BA224 3 credits****Human Resource Management**

Builds on the information contained in human relations and introductory management classes. Students will be introduced to traditional, current and emerging human resource management (HRM) practices. Students will develop a practical and realistic approach to HRM by focusing on the functions of a human resources depart-



ment and the responsibilities of a human resources director. Upon completion of the course, students will be able to assess HRM skills; describe current best practices in HRM; explain the process of selecting, placing, and training employees; explain how diversity is managed in the workplace; prepare employee performance appraisal tools; tie compensation to performance; describe minimum health, safety and security measures required to protect employees; and explain how to effectively deal with labor unions. Prerequisites: BT101 or PSY101 and BT113 or WR115. BT102 and BA206 are recommended.

### **BA226 4 credits**

#### **Business Law**

Presents a brief introduction to the American legal system, structure of state and federal court systems, pertinent business legislation, Uniform Commercial Code, and obligations arising from tort law. Emphasis on formation, performance, discharge, and interpretation of contracts. Third party contracts, warranties, and product liability issues are also covered. Prerequisites: BT114 or WR121.

### **BA228 2 credits**

#### **Computer Accounting Applications**

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. Prerequisites: BA131, and BA211 or BT151.

### **BA238 3 credits**

#### **The Art of Selling**

What does it take to be a highly successful professional salesperson? This course guides students to explore and understand successful sales and sales management behaviors. Students will develop competency in professional selling approaches, conversations and presentations, and sales management techniques. Course topics include creating value in the buyer-seller relationships, prospecting, sales call planning, communicating the message, negotiating for win-win solutions, closing the sale, as well as how to motivate, compensate and train sales people. Prerequisites: BA131, and BT113 or WR115 or designated placement test score.

### **BA243 3 credits**

#### **Social Media Marketing**

Covers the basics of social media marketing: creating online conversations through social media outlets, social media strategy, branding through social media sites, value in the organization's content, aligning offline marketing strategies with social media, and why a social media consultant may be a viable solution to social media goals. Prerequisites: BT114 or WR121 or designated placement test scores. BA223 is recommended.

### **BA249 3 credits**

#### **Retail Management**

Introduces students to the field of retailing and provides an understanding of the types of businesses, strategies, operations, formats and environments through which retailing activities are carried out. Course takes a multi-disciplinary approach to consider the process and structure of retailing. Topics include planning, research, consumer behavior, store design and layout, merchandising strategy, management strategy, promotional strategy, and pricing strategy. Students will be able to discuss the overall importance of retailing and how it fits into the marketing environment, understand who the retail customer is, and apply the "four Ps" of marketing to the retail sector. Prerequisites: BA101, and BT114 or WR121. BA223 is recommended.

### **BA280 Variable credit** **Cooperative Work Experience/** **Business**

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. Prerequisites: BA109; student must be a Business major; and make arrangements with the department prior to enrolling in this course.

### **BA282 4 credits**

#### **Applied Business Statistics**

Builds on the knowledge of descriptive statistics learned in 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 MTH244. Prerequisites: BA131 or CS120 or CIS120 or documented proficiency. BA285 or CS125SS/CIS125SS is also recommended.

### **BA285 4 credits**

#### **Advanced Business Applications:** **Excel**

Designed for students in any discipline. Includes hands-on approach to develop a competency in basic and advanced concepts and commands of spreadsheet software. Students will learn to design, set up, and print a variety of spreadsheet applications. Microsoft Excel will be used to develop materials. Emphasis will be placed on using spreadsheet data for problems analysis. Dual numbered as CIS125SS. Prerequisites: BA131 or CS120 or CIS120 or documented proficiency, and MTH65 or BT160 or designated placement test score.

## **BUSINESS TECHNOLOGY**

### **Career and Technical Courses**

#### **BT101 3 credits**

##### **Human Relations in Organizations**

Uses current research, lecture, class discussion, group activities, videos, guest speakers, and supplemental exercises to examine common situations and problems in human relations in organizations. Includes ethics, communication, group dynamics, power and influence, self-awareness (communication styles, self-esteem, attitudes, emotions, and ethics), workplace diversity, motivation, trust-building, self-disclosure, teamwork, and conflict management. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

#### **BT102 3 credits**

##### **Introduction to Supervision**

Builds on information covered in BT101. 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. Prerequisites: BT101 and BT113 or WR115 or designated placement test score.

### **BT105 3 credits**

#### **Business Ethics**

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. Panel discussions, article reviews, role playing, guest speakers, and case studies are used to develop skills in recognizing and resolving ethical issues in business. Prerequisite: BT113 or WR115, or designated placement test score.

### **BT106 3 credits**

#### **Advertising**

Provides insight into the role of advertising and integrated brand promotion. Each specific advertising medium will be covered in detail. Both traditional and emerging advertising media will be covered. Prerequisites: BT113 or WR115, or designated placement test scores. BA223 is also recommended.

### **BT111 2 credits**

#### **Conflict Management**

Provides students with the skills to turn conflict into a positive experience. Students will identify what conflict is, positive and negative aspects of conflict, types and sources of conflict, and strategies in dealing with conflict. Through the use of self-assessment instruments, students will identify their personal conflict management style(s). Other topics include emotional aspects of conflict, determining which approaches to conflict management are overutilized and underutilized, and stress and anger management strategies used in conflict management. Prerequisite: BT113 or WR115 or designated placement test score.

### **BT113 4 credits**

#### **Business English I**

Gives students a firm and thorough foundation in the fundamentals of business writing by focusing on grammar basics, mechanical skills in writing, sentence structure, proofreading and editing skills, and vocabulary development. The course surveys the basic conventions, purposes, and strategies of standard written English, and therefore develops students' confidence in their own ability to write effectively at the college level. Students are given extensive practice in these areas, applying what they have learned to typical business situations, language, and formats. Special attention is given to paragraph and essay development. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **BT114 4 credits**

#### **Business English II**

Increases student proficiency in writing clear, well-developed, well-organized, articulate business messages, with emphasis on advanced grammar application, proofreading, and business research. Teaches advanced grammar concepts, reinforcing knowledge of sentence structure, basic paragraph and essay development and organization, basic punctuation, verbal phrases, redundancies, consistency in verb tense, pronoun agreement, subject/predicate agreement, parallel structure, and advanced uses of punctuation. In addition to strengthening grammar skills, students will apply those skills to a second objective: developing profi-



ciency in writing clear, detailed, and organized expository prose. Students will be given frequent practice in crafting a topic sentence or thesis, targeting an audience, developing a message, and persuading an audience. Additionally, students will gain research practice with APA citation format. Prerequisites: BT113. CS125WW/CIS125WW is also recommended. Corequisites: LIB127 and BA131.

### **BT121 4 credits** **Digital Marketing and e-Commerce**

Introduces the use of the Internet to improve business profit through e-Commerce. Includes an introduction to the World Wide Web, e-business ideas, e-business planning, legal issues, Web design, security issues, evaluation of the e-business optimal product, e-marketing, payment options, using the Internet for alternative sources of supply, competitive intelligence, setting up a mall storefront, e-customer service, and creating the virtual storefront. Applies the "four Ps" of marketing to online and/or existing "bricks and mortar" businesses, while determining strategies on how to best use the Internet to improve customer relations. A special focus will be given to search engine optimization. Prerequisites: BT113 or WR115 or designated placement test score, and BA131 or CS120 or CIS120.

### **BT160 4 credits** **Business Math**

Introduces math applications used in business including percentages, fractions, interest (compounding, present value, future value), and other common business applications. A Texas Instruments BA II Plus or TI-83/84 calculator is recommended. Prerequisites: MTH20 and RD90 or WR91, or designated placement test scores.

### **BT178 3 credits** **Customer Service**

Introduces students to the concepts of exceptional customer service. In today's highly competitive global marketplace, attracting and retaining customers is imperative for maximizing profits and the success of all businesses. Therefore, it is important for employees in all professions to develop the skills necessary to provide exceptional customer service. It is mandatory that customer service be considered from the top down within an organization. This course will include such topics as: customer loyalty; principles of quality customer service; service recovery; attitudes and habits that affect service; difficult customers; active listening to determine customer needs; effective communication; communication with a diverse customer population; hiring, motivating, and training service people; performance-enhancing feedback; and measurement of service performance. Prerequisites: BT101 or PSY101, and BA131 or CS120 or CIS120, and BT113 or WR115 or designated placement test score.

### **BT250 3 credits** **Entrepreneurship**

Acquaints students with the principles, terminology, and practical concepts related to the field of small business and entrepreneurship. Students will be able to describe the entrepreneur's mind set, 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. The culminating project in this class is an interview with a local entrepreneur

and a formal, written summary of that interview. Prerequisite: BT114 or WR121.

### **BT265 3 credits** **Writing a Business Plan (Capstone)**

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 orally present their business plans to the class, using appropriate technology. Students will learn to work with other stakeholders in refining their plans through interviews with relevant local businesses, business associations and peer review. Prerequisites: BA101 and BA131 and BA212 and BA223.

## **CAREER AND GUIDANCE**

### **Lower Division Collegiate** **(except where noted)**

#### **CG90 0 credits** **Student Assistants' Training**

Provides training for student workers in basic communication skills and referral techniques such as locating college- and community-based resources and services. Also covers FERPA/confidentiality guidelines and other RCC policies and procedures. Course does not transfer.

#### **CG100 2 credits** **College Success and Survival**

Introduces students to aspects of academic success centering on strategies for discipline-specific and delivery-specific study habits, Web-based resources and tools. This class will also focus on achieving positive outcomes in the academic environment by using the frameworks of teaching and learning style interactions, college systems understanding, and positive behavior and communication skills. Helps students make personal and social adjustments for college success. Focuses on college terms and information; class choice, degree requirements, use of library, and student services; balancing work, school and home demands; financial planning; forming study partnerships; and stress and time management. Pre-requisite: Placement into RD90 and WR90 or higher.

#### **CG105 1 credit** **Finding the Money: Scholarship Essay Writing**

Teaches students to write effective scholarship essays and to develop their own personal essays from an initial draft to final essay format. Explores resources for funding college education, and strategies for effective research via the Internet. Prerequisite: BT113 or WR115, or designated placement test score.

#### **CG111 1 credit** **Study Skills for College Learning: Math Success**

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 the psychology of learning, and assists in creating positive tools toward successful math completion. Prerequisites: RD90 and

WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores. Corequisite: Concurrent enrollment in a math class.

### **CG114 1 credit** **Financial Survival for College Students**

Provides students with general information and strategies on how to make fiscally wise choices for their education and future. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **CG140 3 credits** **Career Development**

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 and Career Pathways roadmaps are included. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **CG144 1 credit** **Introduction to Assertiveness Training**

Examines assertiveness and its relationship to personality development. Focuses on responsible assertive behavior in everyday life, emphasizing communication that respects self and others. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **CG147 1 credit** **Decision Making**

Develops an awareness of decision-making styles and encourages the practice of different decision-making styles to make effective educational and career choices. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **CG150 3 credits** **Exploring Careers in Science and Technology**

Explores the fields of automotive, diesel, building construction, and computer literacy. Investigates diverse subjects including high technology and the trades. Explores the dynamic, changing roles of men and women in the workplace. Prerequisites: WR115 or designated placement test score, and CS120 or CIS120 or documented proficiency.

### **CG155 3 credits** **Exploring Careers in Health Care**

Introduces students to a comprehensive range of health care professions. Students will explore career choices including educational requirements, job outlooks, occupational requirements, wage ranges and professional requirements. In addition, students will complete self-assessments using the Holland Code Quiz, the RCC Career Pathway, and Health Careers Today to help determine which health careers are a good match for their interests and skills. This is a hybrid course that requires work in class and online. Prerequisite: RD90 or WR91 or designated placement test score. Corequisite: BT113 or WR115.

### **CG199 1 credit** **Special Studies: Career Guidance**

Presents special topics around career and education completion through course, workshop, and/or seminar for-



mates. Content varies according to department and student need. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **CG213 3 credits** **Improving Parent-Child Relationships**

Flexibly designed to meet parents' varying needs and schedules. Presents a coherent approach to positive parenting. Specific parent-child interactions are analyzed, and practical steps for effective interaction are identified. Prerequisites: WR115 or BT113, or designated placement test score. CS120/CIS120 is also recommended.

## **CHEMISTRY**

### **Lower Division Collegiate**

### **CHEM104 5 credits** **Introductory Chemistry w/Lab and Recitation**

Designed for allied health or non-science majors and those who do not intend to be chemists or biologists. 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. Also helps students understand how cells and organisms function. Students must enroll in lecture, laboratory and recitation sections. All three sections are required for this five-credit course. Prerequisites: MTH65 or MTH63, and RD90 or WR91, or designated placement test score.

### **CHEM105 4 credits** **Introductory Organic Chemistry w/Lab**

Designed for allied health or non-science majors and those who do not intend to be chemists or biologists. 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. Prerequisite: CHEM104.

### **CHEM105R 1 credit** **Introductory Organic Chemistry Recitation**

Designed for students currently enrolled in CHEM105, this optional course provides more help with the material presented in CHEM105, including naming compounds, drawing structures, describing physical properties and predicting reaction products. Graded on a pass/no pass basis. Corequisite: CHEM105.

**CHEM106 4 credits**  
**Introductory Biochemistry w/Lab**  
Designed for allied health or non-science majors and those who do not intend to be chemists or biologists. 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. Students must enroll in lecture and laboratory sections. Prerequisite: CHEM105.

### **CHEM106R 1 credit** **Introductory Biochemistry Recitation**

Designed for students currently enrolled in CHEM106, this optional course provides more help with the material presented in CHEM106, including working with chiral and achiral molecules, drawing structures and describing properties of carbohydrates, lipids, amino acids, proteins, enzymes and nucleic acids, predicting products of biochemical reactions, and interpreting the chemical equations of carbohydrate, lipid and protein metabolism. Graded on a pass/no pass basis. Corequisite: CHEM106.

### **CHEM221 5 credits** **General Chemistry I w/Lab and Recitation**

Presents chemistry to pre-professional students interested in science careers (chemistry, geology, physics, biology), engineering, medicine, and veterinary medicine. Introduces the concepts of atomic chemistry, chemical equations, stoichiometry, the gas laws, thermochemistry, the periodic table, and chemical bonding. An introduction to the chemical laboratory is presented. Students must enroll in lecture, laboratory and recitation sections. All three sections are required for this five-credit course. Prerequisite: CS120/CIS120 is recommended. Corequisite: MTH95.

### **CHEM222 5 credits** **General Chemistry II w/Lab and Recitation**

Continues topics presented in CHEM221. Exposes students to the liquid and solid states of matter, solution properties, kinetics, equilibrium, acids and bases, and chemical solubility. More complex instruments and tools found in chemical laboratories are introduced and used in the lab. Students must enroll in lecture, laboratory, and recitation sections. All three sections are required for this five-credit course. Prerequisite: CHEM221. Corequisite: MTH111.

### **CHEM223 5 credits** **General Chemistry III w/Lab and Recitation**

Completes general chemistry sequence. Presents a deeper view of thermochemistry, electrochemistry, nuclear chemistry, descriptive chemistry of the periodic table, the transition metals, and introduces organic chemistry and biochemistry. Students are directed in the use of laboratory instrumentation to complete projects through the term in addition to structured laboratory exercises. Students must enroll in lecture, laboratory, and recitation sections. All three sections are required for this five-credit course. Prerequisite: CHEM222. Corequisite: MTH112.

### **CHEM280 Variable credit** **Cooperative Work Experience/Chemistry**

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. Prerequisite: Student must make arrangements with department prior to enrolling in this course.

## **COMMUNICATION**

### **Lower Division Collegiate**

### **COMM201 4 credits** **Media and Society**

Introduces the study of mass communication, exploring such areas as media theory, ethics, media production, content, and societal impact. Prerequisite: WR121 or designated placement test score.

### **COMM225 4 credits** **Small Group Communication and Problem Solving**

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. Prerequisite: RD90 or designated placement test score. Corequisite: WR121

### **COMM237 4 credits** **Communication and Gender**

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. Prerequisite: SP100 or SP111 or SP218.

### **COMM270 3 credits** **Argumentation and Debate**

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. Prerequisite: SP100 or SP111.

### **COMM299 1 to 4 credits** **Special Studies in Communication**

Covers a specialized area of communication in a given area of communication such as interpersonal, mass media, or organizational communication. Prerequisite: WR115 or BT113, or designated placement test score.

## **COMPUTER AND INFORMATION SCIENCES**

### **Lower Division Collegiate** **(except where noted)**

### **CIS60 2 credits** **PC Basics I**

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 appli-



cations of microcomputers in life. Course is graded on a pass/no pass basis. Course does not transfer.

### **CIS120 4 credits**

#### **Concepts in Computing I**

Covers computer terminology, understanding how key components function, the guidelines for purchasing computer equipment or software, how the internet works, system utilities and strategies that can help protect online users. The role of the operating system and how files are stored and organized will also be covered. In the lab portion of the course, students will learn how to use word processing, spreadsheet, and presentation software. Additionally, e-mail, internet, basic Windows operating systems fundamentals and file management skills will be covered. Prerequisite: CIS60 as needed.

### **CIS125DB 3 credits**

#### **Data Base Management Systems**

Designed for students in any discipline, this course includes 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. Prerequisites: CS120 or CIS120 or BA131 or documented proficiency, and MTH60 or MTH63 or BT160 or designated placement test score.

### **CIS125PPT 2 credits**

#### **Effective Presentations**

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. Prerequisites: CS120 or CIS120 or documented proficiency, and WR115 or BT113, or designated placement test score.

### **CIS125SS 4 credits**

#### **Spreadsheet Applications**

Course is designed for students in any discipline. Includes hands-on approach to developing competency in basic and advanced concepts and commands of spreadsheet software. Students will learn to design, set up, and print a variety of spreadsheet applications. Microsoft Excel will be used to develop materials. Emphasis is placed on using spreadsheet data for problems analysis. Dual numbered as BA285. Prerequisites: CS120 or CIS120 or BA131, and MTH65 or BT160.

### **CIS125V 1 credit**

#### **Visio**

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, website 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 does not fulfill degree or certificate requirements for computer proficiency. Prerequisite: CS120 or CIS120 or documented proficiency.

### **CIS125WW 3 credits**

#### **Word Processing Applications**

Provides training in Microsoft Word 2016 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. Prerequisite: CS120 or CIS120 or BA131.

### **CIS140 4 credits**

#### **Introduction to Operating Systems**

Develops competency in basic and advanced concepts and commands of the three industry-standard operating systems. Emphasis is placed on installation and conductivity of the operating systems. 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. Prerequisite: CS120 or CIS120 or documented proficiency.

### **CIS179 4 credits**

#### **Introduction to Networks**

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. Prerequisite: CS120 or CIS120 or documented proficiency.

### **CIS195 4 credits**

#### **Web Authoring I**

Introduces students to webpage 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. Prerequisites: CS120 or CIS120 and MTH60 or higher level math. Corequisite: WR121.

### **CIS196 4 credits**

#### **Web Authoring II**

Follows CS195/CIS195 and introduces students to advanced concepts of website design and creation using HTML and CSS. Students will develop webpages and websites and work with cascading style sheets (CSS). The 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, geo-location, rich Internet applications, local storage, and multi-screen media queries. Prerequisite: CS195 or CIS195.

### **CIS199 Variable credit**

#### **Special Studies: Computer Information Sciences**

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.

### **CIS225 4 credits**

#### **Computer End-user Support I**

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. Prerequisites: CS140 or CIS140, and CS179 or CIS179, and WR115. WR121 is recommended.

### **CIS227 5 credits**

#### **PC Hardware Fundamentals and Repair**

Provides students with theory and hands-on exploration towards the maintenance and repair of personal computers. Students will become familiar with the necessary tools and equipment involved in computer servicing and the specifics of hardware upgrades. Provides students with the competencies needed to pass the hardware segment of the A+ Certification exam. Topics include troubleshooting, upgrading, IRQ/Memory conflicts, safety, Electrostatic Discharge (ESD), fundamental electronics measurement, and proper documentation techniques. Prerequisites: CS140 or CIS140, and MTH60 or MTH63.

### **CIS227N 4 credits**

#### **Network Hardware Fundamentals**

In-depth coverage of network hardware theories, hardware selection and project planning. Students will design, implement, test, and troubleshoot network hardware devices to include routers, switches, and wireless access points. Prerequisites: CS140 or CIS140, and CS179 or CIS179.

### **CIS240 4 credits**

#### **Advanced Operating Systems**

Covers the advanced functions of the Windows operating as a client operating system on a corporate network. Coverage includes operating system customization, performance and maintenance of an operating system, working with group policy, using the command line to troubleshoot, user and group design and implementation, configure an operating system, working with user and file security, PowerShell, VBScripting, and networking functions. Prerequisite: CS140 or CIS140.

### **CIS240L 4 credits**

#### **Advanced Operating Systems - Linux**

Includes operating system installation, commands, command processor functions, input/output control, software installation, resource management, user management, customization, windowing environments, and security using a current version of the Linux operating system. Also introduces students to basic programming languages. Prerequisite: CS140 or CIS140.

### **CIS279 4 credits**

#### **Network Operating Systems**

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 Services (DNS), Dynamic Host Configuration Protocol (DHCP), and system backup and restore. Prerequisites: CS140 or CIS140, and CS179 or CIS179.



### **CIS280 Variable credit Cooperative Work Experience/ Computer Information Sciences**

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. Prerequisite: Student must be a Computer Information Sciences or Computer Science major and make arrangements with the department prior to enrolling in this course.

### **CIS284 4 credits Network Security Fundamentals**

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. Prerequisite: CS179 or CIS179 or documented Network+ certification.

### **CIS299 Variable credit Special Studies: Computer Information Sciences**

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. Prerequisite: Student must be a Computer Information Sciences or Computer Science major.

### **CS133B 4 credits Visual Basic I**

Introduces students with minimal mathematics background to coding and problem solving using the Visual Basic programming language. Prerequisites: CS120 or CIS120 or documented proficiency, and MTH65 or higher level math.

### **CS133C# 4 credits Programming Fundamentals Using C#**

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. Prerequisites: CS120 or CIS120 or documented proficiency, and MTH65 or higher level math.

### **CS133JS 4 credits JavaScript I**

Introduces beginning JavaScript for computer science majors and/or students wanting to explore client-side programming techniques and concepts. Covers Document Object Model (DOM) and simple techniques for adding dynamic content to webpages. Prerequisites: CS195 or CIS195, and MTH65 or higher level math.

### **CS160 4 credits Introduction to Computer Science**

Explores the disciplines and professions of computer sci-

ence 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. Prerequisites: CS120 or CIS120 or documented proficiency, and MTH65 or designated placement test score. CS140 or CIS140 is also recommended.

### **CS161J 4 credits Computer Science I (Java)**

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. Prerequisites: Any CS133 course or CS160, and MTH111 or higher level math.

### **CS161U 4 credits Computer Science I (C++)**

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++. 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. Prerequisites: CS120 or CIS120 or documented proficiency, and MTH95 or higher level math.

### **CS162J 4 credits Computer Science II (Java)**

Continues CS161 or 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. Prerequisite: CS161 or CIS161J.

### **CS162U 4 credits Computer Science II (C++)**

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. Prerequisite: CS133U or CS161U.

### **CS180 1 credit Computer Programming Recitation**

An optional course taken concurrently with a computer programming course. For students who want more help with the material in a programming class, this course will emphasize discussion to clarify concepts being currently covered in the programming class as well as extra short assignments designed to solidify understanding of course material from the programming class. Corequisites: Any CS133 course, or CS161J or CS161U.

### **CS234U 4 credits Object Oriented Programming in C++**

Studies 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. Prerequisite: CS233U or CS162U.

### **CS260 4 credits Data Structures I**

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 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,  $O()$ ,  $\Theta()$  and  $\Omega()$  notation, as well as a general introduction to resource consumption, including the tradeoff between time and space. Prerequisite: CS162 or CS162J, and MTH111. Corequisite: MTH251.

### **CS275 4 credits Data Base Development I**

Provides students with an introduction to the concepts, skills, and tools involved in relational data base design, implementation, and testing. Students will be introduced to and use structured query language (SQL) for creating a client/server data base and data manipulation. Covers relational data base concepts, data anomalies, and data normalization. Entity-Relationship diagrams will be covered and used as a tool for designing a data base system. CS275 enhances and supplements the programming or networking student's analysis, design, and problem solving skills. Prerequisite: CS125DB or CIS125DB.

## **CREDIT FOR PRIOR LEARNING**

### **Career and Technical Course**

### **CPL120 3 credits Credit for Prior Learning**

Assists students in developing portfolios to be used in applying for credit for prior learning. Focuses on identifying career and educational goals and documenting college-level prior learning. Prerequisite: BT113 or WR115, or designated placement test score.

## **CRIMINAL JUSTICE**

### **Lower Division Collegiate (except where noted)**

### **CJ100 4 credits Foundations and Ethics in Criminal Justice**

Provides an introduction to the legal and historical foundations and components of the criminal justice system. Issues in criminal justice administration and professionalism will be explored within an ethical decision-making framework. Career and professional development strategies will be



assessed. Prerequisite: BT113 or WR115, or designated placement test score.

#### **CJ101 4 credits**

##### **Introduction to Criminology**

Offers an interdisciplinary perspective of crime and criminal behavior in relation to the criminal justice system. Theoretical approaches to explaining crime, criminal statistics, typologies, and victimology will be assessed, and the influence of crime theory on public policy will be explored. Dual numbered as SOC244. Prerequisite: BT113 or WR115, or designated placement test score.

#### **CJ110 4 credits**

##### **Introduction to Law Enforcement**

Offers comprehensive analysis of police practices and an exploration of law enforcement systems in the United States. The history of policing and practices in modern law enforcement are explored with special emphasis on community policing. Topics include professional discretion, ethical dilemmas, use of force, the role of police, and career development. Prerequisite: BT113 or WR115, or designated placement test score.

#### **CJ120 4 credits**

##### **Introduction to the Judicial Process**

Presents a theoretical, legal, and practical perspective of America's courts with emphasis on the functions and roles of prosecutors, defense attorneys, and judges. Problems and issues associated with the administration of the courts, processing of offenders, status of accused, victims, and witnesses are addressed from the time an offender is arrested through sentencing. Prerequisite: BT113 or WR115, or designated placement test score.

#### **CJ130 4 credits**

##### **Introduction to Corrections**

Examines the history, philosophy, and practices associated with the correction of people convicted of crimes in the United States. Community supervision and legal principles related to the rights and status of convicted offenders are addressed. Correctional institutions are a specific focus. Custody and security issues, treatment programs, and legal liabilities and obligations of correctional staff are emphasized. Prerequisite: BT113 or WR115, or designated placement test score.

#### **CJ191 4 credits**

##### **Reserve Officer Law Enforcement Academy (ROLEA) Module 1: Orientation to Policing/Professionalism**

Offers a basic overview of the criminal justice system in Oregon to reserve police officers. The module orients students to ethical and professional responsibilities, cultural awareness, patrol procedures and concepts of tactical communications. Course content is based on the Oregon Department of Public Safety Standards and Training police academy lesson plans. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

#### **CJ192 4 credits**

##### **Reserve Officer Law Enforcement Academy (ROLEA) Module 2: Legal and Investigative Concepts I**

Offers training in topics ranging from first aid to criminal

and procedural law application along with criminal investigation concepts, use of force, civil liability, defensive tactics and mental health concepts. Course content is based on the Oregon Department of Public Safety Standards and Training police academy lesson plans. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

#### **CJ193 3 credits**

##### **Reserve Officer Law Enforcement Academy (ROLEA) Module 3: Legal and Investigative Concepts II**

Offers training in topics ranging from crimes related to property, fraud and deception along with focus on report writing and criminal investigation. Continued focus on defensive tactics is also part of the module. Course content is based on the Oregon Department of Public Safety Standards and Training police academy lesson plans. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

#### **CJ194 4 credits**

##### **Reserve Officer Law Enforcement Academy (ROLEA) Module 4: Legal and Investigative Concepts III**

Offers continuing training in defensive tactics along with training related to OLCC, alcohol, controlled substances, weapons, public order, sex and family offenses, domestic violence, missing and abducted children, and child abuse investigations. Course content is based on the Oregon Department of Public Safety Standards and Training police academy lesson plans. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

#### **CJ195 3 credits**

##### **Reserve Officer Law Enforcement Academy (ROLEA) Module 5: Legal and Investigative Concepts IV**

Offers training in defensive tactics, traffic enforcement, controlled substances, unattended deaths, homicide investigation, gang awareness and forensics. Course content is based on the Oregon Department of Public Safety Standards and Training police academy lesson plans. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

#### **CJ196 2 credits**

##### **Reserve Officer Law Enforcement Academy (ROLEA) Module 6: Police Skills Proficiency I**

Offers practical application of knowledge in less lethal force options, defensive tactics, and mock trials along with application of investigative techniques related to sexual assault. Juvenile law and justice issues are also addressed. Course content is based on the Oregon Department of Public Safety Standards and Training police academy lesson plans. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

#### **CJ197 3 credits**

##### **Reserve Officer Law Enforcement Academy (ROLEA) Module 7: Police Skills Proficiency II**

Offers practical skills training in elder abuse, defensive tactics, crash investigation, firearms orientation, building searches and field sobriety testing. Course content is based on the Oregon Department of Public Safety Standards and Training police academy lesson plans. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

#### **CJ198 3 credits**

##### **Reserve Officer Law Enforcement Academy (ROLEA) Module 8: Police Skills Proficiency III**

Offers training in mock trials, vehicle stops, use of force decision-making scenarios, and confrontational simulations. Course content is based on the Oregon Department of Public Safety Standards and Training police academy lesson plans. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

#### **CJ199 Variable credit**

##### **Special Studies: Criminal Justice**

Includes special course offerings, seminars and workshops in various subject areas of criminal justice. The special offerings will be taught by visiting lecturers and regular faculty and will focus on topics of special concern, training, and criminal justice and/or community concern. Course offerings will be based upon demand and will vary in length. Prerequisite: BT113 or WR115, or designated placement test score.

#### **CJ201 4 credits**

##### **Juvenile Delinquency**

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. Dual numbered as SOC221. Prerequisite: BT113 or WR115, or designated placement test score.

#### **CJ203 3 credits**

##### **Crisis Intervention**

Focuses on crises encountered in a variety of settings related to public safety. Techniques and approaches to intervention and working with people experiencing crises are addressed. Presents material on initial intervention, defusing and assessment, and resolution and/or referral, with emphasis on safety. Prerequisite: BT113 or WR115, or designated placement test score.

#### **CJ210 4 credits**

##### **Criminal Investigation**

Introduces the investigative process and techniques associated with processing crime scenes and developing information useful in justice agency investigations. Specific attention is given to crime scenes, interviewing, handling and preparation of evidence, witnesses, surveillance, technical resources, case preparation and proactive approaches to investigations generally as well as in relation to specific crimes. Prerequisite: BT113 or WR115, or designated placement test score.



### **CJ214 4 credits**

#### **Crime, Justice and Diversity**

Provides a balanced examination of issues of crime and justice administration in the context of race, ethnicity, and diverse populations in the community. Diversity in the context of crime victimization, accused and convicted criminals, public perceptions, and employment in the criminal justice system is addressed. Problem-solving to facilitate improved understanding and cooperation between criminal justice practitioners and diverse populations in communities is emphasized. Prerequisite: CJ100 and BT113 or WR115, or designated placement test score. CJ120 is recommended.

### **CJ220 4 credits**

#### **Law: Substantive Law and Liability**

Presents an introductory study of criminal law concepts focusing on substantive law. Topics addressed include historical and constitutional principles of criminal law, classification of crimes, principles of criminal liability, elements of crimes, parties to crimes, inchoate offenses, defenses against criminal responsibility, and selected case law. Crimes against persons and crimes against property will be analyzed. Principles of civil rights law and professional liability will be addressed. Prerequisite: CJ120.

### **CJ221 4 credits**

#### **Law: Constitutional Criminal Procedure**

Examines constitutional principles and procedural considerations related to the investigation of crime, processing of accused persons, and maintenance of order in American society. Rights of individuals and responsibilities of law enforcement officers based on court decisions in relation to the First, Fourth, Fifth, Sixth, Eighth, and Fourteenth Amendments to the United States Constitution are addressed. Prerequisite: CJ120.

### **CJ223 4 credits**

#### **Law: Evidence and Trial Process**

Presents the origin, development, and constitutional basis for evidence used in legal proceedings. Technical and legal problems of evidence associated with the investigation of crimes and as viewed in the modern court-room are presented. Aspects of procedural law directly related to evidence issues are reviewed. Case development and trial preparation are emphasized through mock trial exercises. Prerequisite: CJ120.

### **CJ229 4 credits**

#### **Community Corrections and Casework**

Examines community corrections philosophies, services, practices and treatment programs including probation, parole, community-based release programs, and alternatives to incarceration. Offers an overview of corrections casework approaches to behavior modification through assessment, classification, interviewing and counseling, and other treatment modalities. Prerequisite: BT113 or WR115, or designated placement test score.

### **CJ243 4 credits**

#### **Drugs, Crime, and Addiction**

Introduces students to the dynamics of drug and alcohol addiction and the social and legal issues of drug abuse. Examines the political considerations behind contemporary drug enforcement policy. Explores the historical origins of the illegal drug trade. Dual numbered as SOC243. Prerequisite: BT113 or WR115, or designated placement test score. SP111 and WR121 are recommended.

### **CJ270 4 credits**

#### **Capstone Project in Criminal Justice**

Serves as the culminating experience in criminal justice degree programs. Skills and knowledge acquired in criminal justice courses are integrated and applied to a field situation related to the control and prevention of crime and public safety administration. The course requires a comprehensive, structured research report, an oral presentation, and exams to assess professional competence. Prerequisite: Student must be a Criminal Justice major.

### **CJ280 Variable credit**

#### **Cooperative Work Experience/ Criminal Justice**

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 graded on a pass/no pass basis. Prerequisite: Student must be a Criminal Justice major and make arrangements with the department prior to enrolling in this course.

## **DENTAL ASSISTING**

### **Career and Technical Courses**

### **DA101 4 credits**

#### **Dental Assisting I**

Introduces the basic concepts of the dental assistant's role in preventative dentistry including dental terminology, infection control, basic microbiology, pharmacology, nutrition, oral and facial anatomy, tooth numbering, names of tooth surfaces, and dental charting and oral assessment. Also includes the use of dental instruments and the various procedures used by dentists, dental asepsis techniques, patient education, legal and ethical issues, the collection of clinical data, and patient psychology as it relates to anxiety and pain management. Prerequisites: This is a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry.

### **DA101A,DA101B 1 credit**

#### **Dental Assisting I Lab**

Provides hands-on, clinical instruction for students to, 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 dentist, basic chairside procedures, assisting during restorative treatment, fourhanded dentistry, chair-side charting using tooth numbering systems, and names of tooth surfaces. Students are introduced to the various day-to-day operations within a dental office including infection control, management of hazardous waste, sterilization techniques, theory and terminology, ultrasonic/autoclave operation, instrument and equipment sterilization/disinfection, treatment room disinfection, and dental asepsis techniques. Prerequisites: Concurrent or prior enrollment in DA101. This is a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry.

### **DA102 4 credits**

#### **Dental Assisting II**

Builds on material learned in Dental Assisting I, specifically reinforcing oral and facial anatomy, tooth numbering, names of tooth surfaces, dental charting and oral assessment. The course provides an in-depth view of specific, practical dental assisting skills in dental specialties. Topics covered in class will include the major dental specialties of oral surgery, endodontics, periodontics, prosthodontics, and orthodontics. Anatomical content covered will include the muscles, nerves, glands, and bones of the head and neck; the structures and tissues that make up the oral cavity; and the development, tissues, morphology, and functions of the teeth. Prerequisites: DA101, DA101A/B and DA202. This is a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry.

### **DA102A,DA102B 1 credit**

#### **Dental Assisting II Lab**

Builds on material learned in DA101A, DA103 and DA202, specifically reinforcing oral and facial anatomy, tooth numbering and names of tooth surfaces, dental charting and oral assessment. Students will repeat certain hands-on skills with an expectation of greater proficiency, and demonstrate capabilities and understanding of the dental assistant's role through clinical evaluation in a lab setting. Course provides an in-depth view of specific, practical dental assisting skills in dental specialties. Topics covered in class include the major dental specialties of oral surgery, endodontics, periodontics, prosthodontics, and orthodontics. Anatomical content covered will include the muscles, nerves, glands, and bones of the head and neck; the structures and tissues that make up the oral cavity; and the development, tissues, morphology, and functions of the teeth. Prerequisites: DA101, DA101A/B, and DA202 (maybe taken concurrently); or department approval. This is a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry.

### **DA103 2 credits**

#### **Dental Materials**

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. Prerequisites: DA101A/B and DA202 or department approval. This is a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry.

### **DA104 2 credits**

#### **Dental Administration**

Introduces office management and administrative skills that are required in a dental setting. Includes 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. Prerequisites: DA101, DA101A/B, and DA202 or department approval. This is a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry.



## **DA105 2 credits**

### **Legal and Ethical Issues in Dentistry**

Exposes the student to variety of legal and ethical dilemmas, helping students become more prudent and confident dental professionals. 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. Prerequisites: DA102, DA102A/B, DA103, DA104, DA150 and DA201 or department approval. This is a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry.

## **DA106 2 credits**

### **Dental and Medical Emergency Management**

Covers routine preparedness for dental team members: 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. Prerequisites: DA102, DA102A/B, DA103, DA104, DA150 and DA201 or department approval. This is a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry.

## **DA150 1 credit**

### **Introduction to Practicum and Seminar**

Provides an extensive overview of office responsibilities, work ethics and prepares students for the challenges of their multiple roles in the dental office. These include guest, intern, student-worker, and administrative assistant, chairside assistant and housekeeping worker. Students will review and discuss the expectations and protocols for their upcoming practicum classes. Course will meet for two-hour sessions, five times during term. Prerequisites: DA101, DA101A/B and DA202. This is a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry.

## **DA152, DA153 4 credits each**

### **Practicum and Seminar in Dental Assisting I/II**

Provides hands-on clinical experience in dental assisting. Students work in a host site 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 will participate in three seminars during the term – an orientation seminar; a mid-term seminar; and a concluding seminar. Students experience first-hand the various operations within a dental office, primarily as chairside dental assistants. Practicum experience may include receptionist duties and bookkeeping. Students will be expected to expand their skill set during the sequence: entry-level and some mid-level duties are appropriate for students enrolled in DA152; mid-level and advanced duties, which may include exposing and processing radiographs, taking alginate impressions and pouring stone models, assisting during surgical procedures, and lab-work preparation for the expanded function class, are appropriate for students enrolled in DA153. Prerequisites: DA152: DA102, DA102A or DA102B, DA150, and DA201, or department approval. DA153: DA152. Corequisites: DA153: DA204 and DA204A.

## **DA201 4 credits**

### **Dental Radiology**

Prepares students for the Dental Assisting National Board (DANB) Radiation Health and Safety (RHS) exam. One of two exams required for certificate in radiologic proficiency from the state of Oregon, it is required to legally to expose radiographs. Prepares students for these 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. To become fully certified, students must also pass the Oregon Clinical Radiologic Proficiency Exam. Prerequisites: DA101; DA101A/B; DA202 or department approval. This is a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry. Corequisite: DA103

## **DA201A, DA201B 2 credits**

### **Radiology Lab**

Prepares the students for the Oregon Clinical Radiologic Proficiency Exam. One of two exams required for Certificate in Radiologic Proficiency from the state of Oregon, (it is required to legally to expose radiographs). To become fully certified students must also pass the Dental Assisting National Board (DANB) Radiation Health and Safety (RHS) Exam. The course will also include an overview of taking digital x-rays. Prerequisite: DA102, DA102A/B, DA103, DA104, DA150 and DA201. This is a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry.

## **DA202 2 credits**

### **Infection Control**

Prepares students for Dental Assisting National Board's (DANB) Infection Control Exam (ICE). The class is designed to prepare students 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 sterilization procedures, environmental asepsis, and occupational safety. Corequisites: Concurrent or prior enrollment in DA101 and DA101A/B or department approval. This is a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry.

## **DA203 2 credits**

### **Chair-side Assisting**

Prepares students for the Oregon Basic, the Oregon Board of Dentistry's written exam. This class is designed to prepare students in the following sections: collection and recording of clinical data, chairside dental procedures, oral anatomy, chairside dental materials (preparation, manipulation, application), lab materials and procedures, patient education and oral health management, infection control procedures, occupational safety, legal issues, prevention and management of emergencies, and office management procedures. Prerequisites: DA102, DA102A/B, DA103, DA104, DA150 and DA201 or department approval. This is a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry.

## **DA204 2 credits**

### **Expanded Functions Dental Assistant**

Prepares students for the Oregon Board of Dentistry's written exam in expanded functions for the chair-side dental

assistant (EFDA). Expanded functions are determined by the Oregon Board of Dentistry, and may change without prior notice. The exam is administered by the Dental Assisting National Board. Students will still need a licensed Dentist Endorsement before becoming EFDA certified. (General Dental Assisting EFDA Certification: Pathway III). The class is designed to prepare students in the following sections: placing matrix bands; polishing amalgam fillings; cement removal; taking impressions; coronal polishing; fabricating temporary crowns and tooth whitening. Prerequisites: DA105, DA106, DA152, DA201A/B and DA203. This is a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry.

## **DA204A 1 credit**

### **Expanded Functions Dental Assistant Lab**

Provides hands-on, clinical instruction of the lecture material presented in DA204. This class prepares students for the clinical skills required for an expanded functions dental assistant (EFDA). Expanded functions are determined by the Oregon Board of Dentistry and may change without prior notice. To be EFDA certified in Oregon, dental assistants must successfully complete all of the requirements in one of four pathways administered by the Dental Assisting National Board (DANB). RCC students currently follow Pathway III that requires students to: 1) have an Oregon Radiologic Proficiency Certificate; 2) pass the Oregon Basic Dental Assisting Exam (ORB); 3) pass the Oregon Expanded Functions – General Dental Assisting Exam (ORXG); and 4) provide certification from a licensed dentist stating that the applicant has completed clinical requirements. Prerequisites: DA105, DA106, DA152, DA201A/B, DA203. This is a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry. Corequisites: DA153, DA204 and successful completion of the first three terms of the cohort.

## **DESIGN AND DIGITAL MEDIA (FORMERLY GRAPHIC DESIGN)**

### **Career and Technical Courses**

## **DDM120 3 credits**

### **Digital Graphic Design I**

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 webpage 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. Corequisite: CS120 or CIS120.

## **DDM125 3 credits**

### **Digital Photography**

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. Prerequisite: CS120 or CIS120. ART115 and GD160 or DDM160 are also recommended.

### **DDM130 3 credits**

#### **Introduction to Adobe Web Tools**

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. Prerequisite: CS120 or CIS120 or documented proficiency.

### **DDM131 3 credits**

#### **Content Management Systems (Word Press)**

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. Prerequisite: CS120 or CIS120 or documented proficiency.

### **DDM140 3 credits**

#### **Electronic Publishing Applications I (InDesign)**

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. Prerequisite: CS120 or CIS120 or documented proficiency.

### **DDM141 3 credits**

#### **Electronic Publishing Applications II (In Design)**

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 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. Prerequisite: GD140 or DDM140.

### **DDM150 3 credits**

#### **Computer Illustration (Illustrator)**

Develops competency in the creation of computer-generated illustrations. Includes instruction in creating vector graphics and techniques for logo design as well as bro-

chure, book, magazine, and advertising illustration. Adobe Illustrator is currently the application used in this course. Prerequisite: CS120 or CIS120 or documented proficiency.

### **DDM160 3 credits**

#### **Digital Imaging (Photoshop)**

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 the application currently used. Prerequisite: CS120 or CIS120 or documented proficiency.

### **DDM161 4 credits**

#### **Advanced Digital Imaging (Photoshop for Web)**

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. Prerequisites: CS195 or CIS195, and GD120 or DDM120, and GD130 or DDM130, and GD160 or DDM160.

### **DDM170 3 credits**

#### **Motion Graphics (After Effects)**

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. Prerequisites: GD120 or DDM120, and GD150 or DDM150, and GD160 or DDM160.

### **DDM180 3 credits**

#### **Introduction to Digital Video (Premiere)**

Introduces digital video production planning, acquisition, comprehension, 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 animation projects. Prerequisite: CS120 or CIS120 or documented proficiency.

### **DDM181 3 credits**

#### **Advanced Digital Video**

Introduces digital video production planning, acquisition, comprehension, 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 animation projects. Prerequisite: CS125DV or DDM180.

### **DDM190 3 credits**

#### **Introduction to Animation (Adobe Animate)**

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. Prerequisite: CS120 or CIS120 or documented proficiency.

### **DDM191 3 credits**

#### **Advanced Animation II**

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. Prerequisites: CS195 or CIS195, and GD190 or DDM190, and MTH95.

### **DDM200 3 credits**

#### **Survey of Graphic Design History**

Surveys the history of graphic design from the Industrial Revolution to the present. Studies graphic styles of the twentieth century, using the works of designers and illustrators who have influenced the continuing development of the discipline. Students will conduct research, prepare a research paper, a presentation and create a poster in a chosen graphic style of the twentieth century. Additional lab hours required. Prerequisites: ART116 and GD120 or DDM120, and WR121.

### **DDM220 3 credits**

#### **Digital Graphic Design II**

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. Prerequisite: GD120 or DDM120.

### **DDM221 3 credits**

#### **Production Graphics**

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. Prerequisites: ART116 and GD140 or DDM140, and GD150 or DDM150, and GD160 or DDM160, and WR121. Corequisite: DDM220.

### **DDM223 3 credits**

#### **Digital Graphic Design III**

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 pro-



portion 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. Prerequisites: GD220 or DDM220, and GD227 or DDM221.

### **DDM224 3 credits**

#### **Digital Graphic Design IV**

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. Prerequisites: GD220 or DDM220, and GD227 or DDM221.

### **DDM225 3 credits**

#### **3D Graphics Design (Blender)**

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. Prerequisite: CS120 or CIS120 or documented proficiency. DDM150 and DDM160 are recommended (formerly GD150 and GD160).

### **DDM226 3 credits**

#### **Advanced 3D Graphics Design II (Maya)**

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 Maya to create 3D graphics. Topics include: modeling objects, generating surfaces, and working with textures, cameras, and lighting. Prerequisite: CS125D or DDM225.

### **DDM229 3 credits**

#### **Portfolio and Professional Practices**

This course will discuss the opportunities in the various fields of Web design, and graphic design. Students will be guided in the preparation of a digital portfolios of their work, in the development of resumes, a personal identity systems 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. Prerequisites: GD220 or DDM220, and GD227 or DDM221.

### **DDM230 3 credits**

#### **Design Studio**

Advanced exploration of digital design, with the emphasis upon creative problem solving, project management and professional practices. Students will learn to solve complex visual communication problems through projects in Web design, advertising campaign design and package design. Provides the opportunity to work collaboratively

on special projects and includes in-depth study of digital design processes and procedures. Additional lab hours required. Prerequisites: GD220 or DDM220, and GD227 or DDM221.

### **DDM235 4 credits**

#### **Website Design I**

Provides students with a foundation in web user interface design, including usability, navigation, visualization, functionality (site maps, FAQs) and site accessibility. Students will use X/HTML and CSS to create websites that incorporate these concepts while maintaining visual appeal. Also introduces students to the core principles and methodologies of information architecture including content assessment and organization, defining organizational structures, and developing interactive web site prototypes. Prerequisite: CS195 or CIS195.

### **DDM280 Variable credit**

#### **Cooperative Work Experience/ Design and Digital Media**

Provides work-related experience and study in selected occupational environments for second-year computer science students. Prerequisites: GD220 or DDM220, and GD227 or DDM221; student must be a Design and Digital Media major and make arrangements with the department prior to enrolling in this course.

## **DIESEL TECHNOLOGY**

### **Career and Technical Courses**

#### **DS111 7 credits**

##### **Basic Electricity for Diesel Technicians I**

Introduces the fundamentals of basic electricity, starters and power generation, the use of test equipment, and troubleshooting techniques. Course required for all entering diesel technology students.

#### **DS112 5 credits**

##### **Gasoline Engines Rebuild**

Reviews theory and construction of various gasoline internal combustion engines and how to rebuild, service, inspect, and repair them. Prerequisite: DS131.

#### **DS113 6 credits**

##### **Diesel Engine Overhaul**

Provides diesel engine theory and hands-on experience in rebuilding and servicing diesel engines including testing, diagnosis, measurements, and repair. Prerequisite: DS131. Corequisite: DS190.

#### **DS120 5 credits**

##### **Diesel Practices**

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.

#### **DS131 4 credits**

##### **Diesel Engine Dynamics and Diagnosis**

Provides the theory of operation and hands-on experience in tuning up and troubleshooting various live diesel engines. Topics include tune-up, engine airflow principles, and performance diagnosis. Prerequisites: DS111 and DS120.

### **DS134 3 credits**

#### **Basic Electricity for Diesel Technicians II**

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. Prerequisites: DS111 and DS120.

### **DS141 4 credits**

#### **Heavy Equipment Power Trains**

Studies the principles of operation of heavy transmissions, differentials, and clutches, and provides for hands-on experience in the servicing, inspecting, and rebuilding of them. Prerequisites: AM111 or DS111, and AM120 or DS120.

### **DS151 5 credits**

#### **Heavy Equipment Brakes**

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, and electrical types, as well as ABS brake hydraulics and operation.

### **DS160 5 credits**

#### **Heavy Equipment Suspension and Steering**

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. Prerequisites: AM111 or DS111, and AM120 or DS120.

### **DS190 3 credits**

#### **Diesel Repair Lab I**

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. Corequisite: DS113.

### **DS199 Variable credit**

#### **Workshop/Selected Topics**

Presents workshops dealing with the diesel and heavy equipment industry and related issues; scheduled as needed. Prerequisite: Diesel student enrolled as a declared major in the program.

### **DS232 3 credits**

#### **Heavy Equipment Fuel Systems**

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 rebuilding of components in each system. Prerequisite: DS131.

### **DS233 6 credits**

#### **Computerized Vehicle Management Systems**

Allows for demonstration of mastery of basic diesel engines, fuel systems, electricity, electronics, air conditioning, heavy-duty computer controlled brakes, and suspension and repairs of all on-board, computer controlled, monitored and managed systems. Meets current ASE/NATEF (Automotive Service Excellence/National Automotive Technicians Education Foundation) requirements for certification and is the foundation for many fleet



and dealership maintenance, repair and monitoring practices. Prerequisites: DS131 and DS134 and DS232.

### **DS260 3 credits**

#### **Hydraulic Systems**

Studies theory and operation of hydraulic systems used in the heavy equipment industry; includes hands-on experience in building, troubleshooting, and repairing these systems. Prerequisites: AM111 or DS111, and AM120 or DS120.

### **DS270 5 credits**

#### **Air Conditioning for Diesel Technicians**

Covers vehicle 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. Prerequisites: DS111 and DS120 and DS131.

### **DS275 5 credits**

#### **Preventative Maintenance Inspection**

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, drive train, air conditioning, fuel and emission systems, electronics, safety inspection, servicing, maintenance records, and repairs of all onboard systems. Prerequisites: DS113, DS131, DS151, DS160, DS232, and DS270.

### **DS280 Variable credit**

#### **Cooperative Work Experience/ Diesel**

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. Prerequisites: AM111 or DS111, and AM120 or DS120.

### **DS280S 1 credit**

#### **Cooperative Work Experience Seminar/Diesel**

Presents an overview of the necessary employment documents to be competitive in the job market. Students will write a basic resume and cover letter, complete an employment application, participate in a mock interview, and develop an understanding of the importance of a professional image and work ethic. Students are expected to have completed most of their coursework toward a certificate or degree program and will be enrolled in CWE concurrently or in the following term. Prerequisites: BA131 or CS120 or CIS120 or documented proficiency, and BT113 or WR115 or designated placement test score. Student must be a Diesel Technology major, and make arrangements with the department prior to enrolling in this course.

### **DS290 3 credits**

#### **Diesel Repair Lab II**

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.

## **EARLY CHILDHOOD AND ELEMENTARY EDUCATION**

### **Career and Technical Courses**

### **ECE100 3 credits**

#### **Introduction to Early Childhood Education**

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 for teachers of young children birth to eight years. Community observations in early childhood settings are required. Course may include an online component. Prerequisite: WR115 or BT113, or designated placement test score.

### **ECE125 3 credits**

#### **Early Childhood Development**

Provides an overview of child development from conception through eight years of age. The focus is on studying and observing the physical, cognitive, language, emotional, and social characteristics of the child during this period. Includes the CDA subject areas of child growth and development and observation. Child observations are required. Community observations in early childhood settings may be required. Course may include an online component. Equivalent to ECE125A, ECE125B, ECE125C. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **ECE125A 1 credit**

#### **Early Childhood Development – Prenatal/Infant**

An overview of child development from conception through one year of age. The focus is on studying and observing the physical, cognitive, language, emotional, and social aspects of the individual during this period. This course includes the CDA subject areas of child growth and development and observation. Child observations are required. Community observations in early childhood settings may be required. Course may include an online component. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **ECE125B 1 credit**

#### **Early Childhood Development - Toddler**

An overview of child development from one through two years of age. The focus is on studying and observing the physical, cognitive, language, emotional, and social aspects of the individual during this period. This course includes the CDA subject areas of child growth and development and observation. Child observations are required. Community observations in early childhood settings may be required. Course may include an online component. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **ECE125C 1 credit**

#### **Early Childhood Development – Preschool and Primary**

An overview of child development from three through eight years of age. The focus is on studying and observing the physical, cognitive, language, emotional, and social aspects of the individual during this period. This course includes the CDA subject areas of child growth and development and observation. Child observations are required. Community observations in early childhood settings may be required. Course may include an online component. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **ECE126 3 credits**

#### **Early Childhood Education Best Practices**

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, learning environment, physical, cognitive, and communication. Community observations in early childhood settings are required. Course may include an online component. Equivalent to ECE126A, ECE126B, ECE126C. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **ECE126A 1 credit**

#### **Early Childhood Education Best Practices – Establishing Safe and Healthy Environments**

Examines the basics of establishing a safe classroom environment, promoting good health and nutrition for young children, and arranging an early childhood classroom so that children will become self-directed in their learning. This course includes the CDA subject areas of Safe, Healthy, and Learning Environment. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **ECE126B 1 credit**

#### **Early Childhood Education Best Practices – Advancing Physical and Intellectual Development**

Examines promoting children's physical development by determining their needs and providing appropriate materials and activities. It also includes skills for promoting children's cognitive development by involving them in exploring their world. This course includes the CDA subject areas of Physical and Cognitive. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **ECE126C 1 credit**

#### **Early Childhood Education Best Practices – Advancing Communication Skills**

Examines the promotion of children's communication skills through listening, speaking, emergent reading and emergent writing. This course includes the CDA subject



areas of Communication. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **ECE135 3 credits**

#### **Applied Child Development**

Examines the importance of encouraging creativity and promoting social and emotional development in young children. Explores appropriate guidance techniques. Includes the CDA subject areas of creative, self, social and guidance. Community observations in early childhood settings are required. Course may include an online component. Equivalent to ECE135A, ECE135B, ECE135C. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **ECE135A 1 credit**

#### **Applied Child Development – Advancing Creative Skills**

Examines the importance of encouraging creativity in young children. This course includes the CDA subject area of Creative. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **ECE135B 1 credit**

#### **Applied Child Development – Promoting a Positive Self-Concept and Social Skills**

Examines the importance of promoting social and emotional development in young children. This course includes the CDA subject areas of Self and Social. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **ECE135C 1 credit**

#### **Applied Child Development – Providing Positive Guidance**

Examines the importance of promoting social and emotional development in young children. Explores appropriate guidance techniques. This course includes the CDA subject area of Guidance. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **ECE136 3 credits**

#### **Early Childhood Education: A Professional Overview**

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. Covers the process of Child Development Associate (CDA) credentialing. Includes the CDA subject areas of families, program management, and professionalism. Community observations in early childhood settings are required. Course may include an online component. Equivalent to ECE136A, ECE136B, ECE136C. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores.

### **ECE136A 1 credit**

#### **Early Childhood Education: A Professional Overview – Promoting Family Involvement**

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. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores.

### **ECE136B 1 credit**

#### **Early Childhood Education: A Professional Overview – Providing Program Management**

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. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores.

### **ECE136C 1 credit**

#### **Early Childhood Education: A Professional Overview – Promoting Professionalism**

Examines the importance of continuing professional growth. This course includes the CDA subject area of Professionalism. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores.

### **ECE151 3 credits**

#### **Guiding Children in Group Settings**

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. Prerequisites: WR115 or BT113, or designated placement test score, and ECE161 or ECE163 or ED165.

### **ECE152 3 credits**

#### **Fostering Creativity**

Focuses 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. Prerequisites: WR115 or BT113, or designated placement test score, and ECE125 or ECE163 or ED165.

### **ECE154 3 credits**

#### **Children's Literature and Literacy**

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. Prerequisites: WR115 or BT113, or designated placement test score, and ECE125 or ECE161 or ECE163.

### **ECE161 3 credits**

#### **Infant/Toddler Development**

Explores child growth and development in detail from the prenatal period to age three, including elements of quality group care for infants and toddlers. Direct experience observing infants and toddlers in a group setting will be an important part of the course. Course may include an online component. Prerequisite: WR115 or BT113, or designated placement test score.

### **ECE163 3 credits**

#### **Preschool/Primary Development**

Explores child growth and development in detail from three through eight years of age, including elements of quality programs for preschool and school-age children. Direct experience observing young children in a group setting will be an important part of the course. Course may include an online component. Prerequisite: WR115 or BT113, or designated placement test score.

### **ECE175 3 credits**

#### **Developmentally Appropriate Practices**

Explores developmentally appropriate practices (DAP) for children from birth through age 8. Examines appropriate physical environments, as well as practices and environments that promote positive development in all developmental domains. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: WR115 or BT113, or designated placement test score; and ECE125 or ECE161 or ECE163 or ED165.

### **ECE199 1 to 3 credits**

#### **Selected Topics in Early Childhood Education**

Studies issues related to early childhood education. Prerequisite: Student must be an Early Childhood Education major.

### **ECE240 3 credits**

#### **Play-based Learning**

Explores why play is a fundamentally important part of children's development, the role of play in learning, and ways that adults can support and promote play. Prerequisites: WR115 or BT113, or designated placement test score, and ECE125 or ECE163 or ED165.

### **ECE241 3 credits**

#### **Promoting Cognitive Development**

Covers planning curriculum themes by assessing children's interests and needs. Includes ways to promote cognitive development by engaging children in units that are child-centered. Course may include an online component. Prerequisites: WR115 or BT113, or designated placement test score, and ECE161 and ECE163 and ED165. ECE250 or ECE251 are also recommended.

### **ECE242 3 credits**

#### **Parenting Education and Family Support**

Promotes understanding of the body of knowledge in the field of parenting education and skills in effective parenting education practices, both in group and home settings. Prerequisite: WR115 or BT113, or designated placement test score.



### **ECE243 3 credits**

#### **Promoting Child Health and Physical Development**

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 may include an online component. Course is equivalent to ECE243A / ECE243B / ECE243C combined. Prerequisites: WR115 or BT113, or designated placement test score, and ECE161 or ECE163 or ED165.

### **ECE243A 1 credit**

#### **Promoting Child Health and Physical Development Part A: Health and Wellness**

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. Prerequisites: WR115 or BT113, or designated placement test score, and ECE161 or ECE163 or ED165.

### **ECE243B 1 credit**

#### **Promoting Child Health and Physical Development Part B: Nutrition & Physical Activity**

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. Prerequisites: WR115 or BT113, or designated placement test score, and ECE161 or ECE163 or ED165.

### **ECE243C 1 credit**

#### **Promoting Child Health and Physical Development Part C: Appropriate Practices and Special Needs**

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. Prerequisites: WR115 or BT113, or designated placement test score, and ECE161 or ECE163 or ED165.

### **ECE244 3 credits**

#### **Observation and Assessment**

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 settings are required. Prerequisites: WR115 or BT113, or designated placement test score, and ECE161 or ECE163 or ED165.

### **ECE245 3 credits**

#### **Promoting Social/Emotional Development of Young Children**

Explores strategies to help children develop the social and emotional tools needed to manage their own behavior, exhibit more prosocial behavior, and master social skills. Addresses how to support children who have particular social needs such as shyness, aggressive behavior, and hearing or visual impairments. Prerequisites: ECE151 and WR115 or BT113, or designated placement test score, and ECE161 or ECE163 or ED165.

### **ECE246 3 credits**

#### **Child, Family and Community**

Focuses on developing skills for establishing effective relationships, based on mutual respect, between early childhood professionals and families of the children with whom they are working. Course may include an online component. Prerequisites: WR115 or BT113, or designated placement test score, and ECE161 or ECE163 or ED165.

### **ECE248 3 credits**

#### **Children with Disabilities and Their Families**

Explores ways teachers can facilitate the inclusion of young children with disabilities in a child care or classroom setting. Covers characteristics of disabilities, environmental and curricular adaptations, and instructional strategies for supporting learning. Impact of disability on families, working in partnership with parents, and participation on the IFSP/IEP team will also be addressed. Prerequisites: WR115 or BT113, or designated placement test score, and ECE161 or ECE163 or ED165.

### **ECE250 3 credits**

#### **Infant/Toddler Environments**

Explores planning and evaluating physical and social environments for children birth to 3 years old. Includes room arrangement, appropriate equipment, outdoor areas, and creation of a nurturing environment. Course may include an online component. Prerequisites: WR115 or BT113, or designated placement test score, and ECE161.

### **ECE251 3 credits**

#### **Preschool Environments**

Explores planning and evaluating physical and social environments for 3 to 8 year-old children. Includes room arrangement, appropriate equipment, outdoor areas, and creation of a nurturing environment. Prerequisites: WR115 or BT113, or designated placement test score, and ECE163.

### **ECE252 3 credits**

#### **Family Child Care Environments**

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. Prerequisites: WR115 or BT113, or designated placement test score, and ECE161 and ECE163.

### **ECE254 3 credits**

#### **Preschool Curriculum**

Designed for those working with preschool-aged and kindergarten children. Covers how to select, present, and evaluate materials and activities for 2½- to 6-year-old children. Course may include an online component. Prerequisites: WR115 or BT113, or designated placement test score, and ECE163.

### **ECE255 3 credits**

#### **Infant/Toddler Materials and Activities**

Designed for those planning to work with infants and toddlers. Covers how to select, present, and evaluate materials and experiences for children birth to three years old. Prerequisites: WR115 or BT113, or designated placement test score, and ECE161.

### **ECE256 3 credits**

#### **Primary Curriculum**

Designed for those planning to work with primary-age children. Covers how to select, present, and evaluate materials and activities for children six to eight years old. Emphasizes how to fulfill curriculum standards using developmentally appropriate teaching strategies. Course may include an online component. Prerequisites: WR115 or BT113, or designated placement test score, and ECE163 or ED165.

### **ECE258 3 credits**

#### **Early Childhood Home Visitation**

Explores the role of the early childhood home visitor in providing effective services to families with young children in the home setting. Focuses on understanding the parent-child relationship and attachment, stages of change, and the trauma response. Prerequisites: WR115 or BT113, or designated placement test score, and HS155 and HS158.

### **ECE261 3 credits**

#### **Advanced Practicum I and Seminar**

Provides supervised teaching of children in a lab school or community setting, applying what has been learned through coursework and previous lab experiences. Course includes an online component. Criminal history check required as students will be in early childhood or elementary school settings. Prerequisite: WR115 or BT113, or designated placement test score, and ECE254 or ECE255 or ECE256.

### **ECE262 3 credits**

#### **Advanced Practicum II and Seminar**

Provides supervised teaching of children in a lab school or community setting, applying what has been learned through coursework and previous lab experiences. Students will take on the role of a lead teacher for a portion of the experience. Course includes an online component. Criminal history check required as students will be in early childhood or elementary school settings. Prerequisite: ECE261.

### **ECE265 3 credits**

#### **Children at Risk**

Explores the stressful issues that impact the development of the whole child, including poverty, divorce, child abuse, death of family members, changes in family system, cultural differences, violence, chronic illnesses, substance abuse, and homelessness. Requires online course component. Prerequisites: WR115 or BT113, or designated placement test score, and ECE125 or ECE161 or ECE163 or ED165.

### **ECE266 3 credits**

#### **Spanish for Early Childhood/Elementary Professionals**

Focuses on developmentally and linguistically appropriate practices for second language learners as well as developing a perspective of cultural competency. Enables students to develop basic vocabulary and learn cultural activities in Spanish to use with Spanish-speaking children and parents in a variety of educational situations. Prerequisite: WR115 or BT113, or designated placement test score.

### **ECE275 3 credits**

#### **Anti-bias Education**

Explores the role of the adult in helping children accept and appreciate diversity and uphold values of equity, inclu-



sion and social justice. Course may include an online component. Prerequisites: WR115 or BT113, or designated placement test score, and ECE161 or ECE163 or ED165.

### **ECE285 3 credits**

#### **The Early Childhood Professional**

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. Prerequisite: WR115 or BT113, or designated placement test score. ECE100 or ED259 are also recommended.

### **ECE295 3 credits**

#### **Management of Early Childhood Programs**

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 may include an online component. Prerequisite: WR115 or BT113, or designated placement test score.

## **ECONOMICS**

### **Lower Division Collegiate**

### **ECON115 3 credits**

#### **Introduction to Economics**

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 does not substitute for ECON201 or ECON202 in the Associate of Arts Oregon Transfer degree or Associate of Science/Oregon Transfer degrees. Prerequisite: WR115 or BT113, or designated placement test score.

### **ECON201 4 credits**

#### **Principles of Microeconomics**

Introduces students to consumer and company behavior and the market process. The economic analysis of different market structures of perfect competition, imperfect competition, and monopoly are analyzed along with the principles of income distribution and resource allocation under a market system. Prerequisite: WR121 or BT114, or designated placement test score. CS125WW/CIS125WW is recommended.

### **ECON202 4 credits**

#### **Principles of Macroeconomics**

Deals with human behavior and choices as they relate to the entire economy. Covers aggregate demand and aggregate supply of goods and services, how tax and spending affect the entire economy's output and employment, and how the Federal Reserve can manipulate the supply of money, inflation, and economic growth. Prerequisite: WR121 or BT114, or designated placement test score. CS125WW/CIS125WW is also recommended.

## **EDUCATION**

### **Lower Division Collegiate**

### **ED120 1 credit**

#### **Leadership I**

Introduces basic skills in leadership. Special attention is given to developing basic leadership skills and cultural systems awareness. Corequisite: WR115 or BT113, or designated placement test score.

### **ED121 1 credit**

#### **Leadership II**

Introduces basic skills in leadership. Special attention is given to assessing and developing basic management skills and organizational systems awareness. Prerequisite: ED120. Corequisite: WR121 or BT114.

### **ED122 1 credit**

#### **Leadership III**

Selected projects are provided to teams of students that will require the use of effective leadership and management skills to achieve success. Special attention is given to assessing and providing students meaningful coaching and feedback on their use of key leadership and management skills. Corequisite: WR121 or BT114.

### **ED165 3 credits**

#### **Child Development**

Explores child growth and development from the prenatal period through middle childhood. Course may include an online component. Prerequisite: WR115 or BT113, or designated placement test score.

### **ED170 1 to 2 credits**

#### **Introductory Practicum**

Provides supervised teaching of children in a variety of classrooms for each credit. The student will be assigned to a different site for each practicum credit. Criminal history check required as students will be in early childhood or elementary school settings. Course includes an online component. Prerequisites: WR115 or BT113, or designated placement test score, and ECE125 or ECE161 or ECE163 or ED165.

### **ED199 Variable credit**

#### **Special Studies: Education**

Presents special topics of study in education through workshop, seminar, research, and/or independent study formats. Content varies according to department needs and demand.

## **ELECTRONICS**

### **Career and Technical Courses**

### **EET101 3 credits**

#### **Introduction to Electronics**

Provides students with a hands-on survey of modern electronics. Introduces DC/AC theory, digital, solid state, power supply fundamentals, and integrated circuits. In addition to enhancing learning by providing practical applications of theoretical circuit models, lab assignments provide opportunities for increased knowledge and proficiency in the proper use of industry-standard test equipment. Prerequisite: MTH20 is recommended.

### **EET104 4 credits**

#### **Fundamentals of Manufacturing Electronics**

Provides students with a hands-on survey of manufacturing electronics concepts, circuits, and systems. The course introduces DC/AC theory, digital, solid state, power supply fundamentals, and integrated circuits. Topics covered include: safety practices related to working with electrical devices; electrical components and wiring; electronic test instruments; tools and fasteners; electrical units and nomenclature; principles and analysis of series, parallel, and series-parallel circuits; electrical power generation and control; and filtering devices and circuits. In addition to enhancing learning by providing practical applications of theoretical circuit models, lab assignments provide opportunities for increased knowledge and proficiency in the proper use of industry standard test equipment. Prerequisites: MTH20 and RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores. MTH60 is recommended.

### **EET106 3 credits**

#### **Electronics Assembly**

Provides students with the hands-on skills and proficiencies necessary to meet ANSI J-STD-001B electronics assembly requirements. Areas of study include J-standard general requirements (procedures, terms, components, processes, materials, electrostatic discharge, tools, and equipment), surface mount assembly and soldering through hole assembly and soldering, wires and terminals, and inspection. Students will obtain J-STD-001B certification upon successful completion of the course.

### **EET112 3 credits**

#### **Introduction to Mechatronics**

Uses a Parallax Boe-Bot as the centerpiece for students learning mechanical assembly, programming, and motion control in automated systems. Introduces digital concepts including binary number systems and basic logic as well as concepts and components in DC electronics fundamentals. Includes fundamentals of programming in PBasic; instruction on how to interface input/output ports to LEDs, sensors, and audio piezo speaker elements; and electrical assembly techniques, safety, and soldering of through-hole and surface mount components. Students design, program and implement final Boe-Bot projects to demonstrate course content mastery. Prerequisites: MTH20 and WR90 or WR91, or designated placement test scores.

### **EET113 3 credits**

#### **Exploration of Alternative Energies**

Explores the basic principles behind energy and introduces the various types of energy sources, distribution methods, and the consequences of the use of each source. Emphasis is on the physical principles behind energy and the related effects on our environment. In addition, students will explore and integrate the questions of energy policy in combination with potential energy strategies to build a sustainable future. Prerequisites: CS120 or CIS120 or documented proficiency, and MTH20 or designated placement test score.

### **EET118 5 credits**

#### **Introduction to Renewable Energy Systems (RES)**

Introduces solar, hydro, thermal, wind, bio-fuels, and control and conversion systems. Students will learn appropriate safety practices, terminology, and mathematics concepts/



applications tied to renewable energy sources and systems. Includes hands-on projects and application assignments. Prerequisite: EET125. Corequisite: MTH63 or MTH60.

### **EET120 4 credits**

#### **Renewable Energy Systems (RES) Site Analysis and Design**

Provides foundational skills and knowledge to complete the pre-planning, site survey, and process for installation of photo voltaic (PV) energy systems. Prerequisites: MTH60 or MTH63, or designated placement test score, and EET118 and EET125.

### **EET121 2 credits**

#### **North American Board of Certified Energy Practitioners (NABCEP)**

##### **Entry-level Preparation**

Provides students with a review of system design, installation, mechanical connections, and safety requirements for photovoltaic (PV) systems in preparation for the NABCEP entry-level certification test. Prerequisites: MTH60 or MTH63, or designated placement test score, and EET120.

### **EET125 6 credits**

#### **Electronics Fundamentals I (DC)**

Covers the theory and application of direct current electrical concepts. Topics include common electrical components and measuring instruments; the utilization of scientific and engineering notation with mathematical analysis involving electrical and magnetic units; atomic basis of electrical activity; use of Ohm's Law and Kirchhoff's Laws to analyze electrical circuits; interrelationship of energy and power and the use of Watt's Law; analysis of voltage, current, and resistance relationships in series, parallel, and series-parallel resistive networks; circuit theorems and source conversions; branch, mesh, and node analysis methods; and theory and application of magnetism and electro-magnetism. Corequisite: MTH60 or MTH63.

### **EET126 6 credits**

#### **Electronics Fundamentals II (AC)**

Introduces the theory, mathematical concepts, calculations, applications, and troubleshooting of alternating current (AC) electrical circuits. Topics include generation of alternating current and voltage, phasors and complex numbers and their application to vector analysis of AC circuits, theory and application of capacitors and inductors in DC and AC circuits, principles of transformers and circuit applications, analysis of series, parallel, and series-parallel RC, RL, and RLC reactive circuits, series resonance and parallel resonance circuits. Theory and hands-on application of frequency response circuits include low-pass, high-pass, band-pass, band-stop filters, and pulse response of reactive circuits. Prerequisite: EET125. Corequisites: MTH60 or MTH63

### **EET127 3 credits**

#### **Exploring the Raspberry Pi**

Provides students with a hands-on exploration of the Raspberry Pi Embedded System including an introduction to basic interface circuits for input and output. Introduces the embedded Linux operating system and processes, programming basics in Python, C++/C, Sonic Pi, WiringPi, and Bash languages. Enhanced learning provided through practical lab projects using the Raspberry Pi, software, and accessories. Prerequisites: CIS120 and MTH20 are recommended.

### **EET129 3 credits**

#### **Introduction to Embedded Systems**

Provides students with a hands-on introduction to embedded systems and basic electronic interfacing circuits. Introduces DC circuits that are used with embedded systems. Explores the use of embedded C programming language to control a microcontroller to turn on and off LEDs, motors and speakers. Enhanced learning provided by practical lab projects and programming to implement decisions based on input conditions to control output interface circuits. The lab assignments provide opportunities for increased knowledge and proficiency in the proper use of industry-standard electronics test equipment. Prerequisites: CIS120 and MTH20 are recommended.

### **EET130 6 credits**

#### **Digital Fundamentals I**

Explores binary and hexadecimal number systems, truth tables, and logic devices. Outcomes include the simplification of logic expressions using Boolean algebra, DeMorgan's theorems, and the use of simulation software (MultiSim) to solve combinational logic circuits. Students will do analysis of combination logic circuits and their operations, and examine the characteristics of TTL and CMOS digital ICs. Students will also be introduced to the fundamentals of latches, flip-flops and other related devices, which are the building blocks to microcontrollers and microprocessor storage devices. PBASIC programming is used in conjunction with a Parallax BS2 Microcontroller to develop proficiency in building and troubleshooting digital systems. Hands-on laboratory experience is used to enhance theoretical concepts and develop troubleshooting skills. Prerequisites: EET112, EET125, and EET129.

### **EET131 6 credits**

#### **Digital Fundamentals II**

Examines advanced combinational logic synthesis, implementation of logic circuits and systems with TTL and CMOS devices, minimization techniques, and analog to digital conversion circuitry. Includes information on sequential circuits (flip-flop, register transfer), and hands-on troubleshooting of digital circuits with digital logic analyzers. Includes exploration of complex programmable logic devices using Xilinx ISE 7.1 Webpack software and CoolRunner architecture. Students will accomplish multiple hands-on labs using the Digilent XCRP Developmental Board. Coursework also includes exploration of digital communication protocols (e.g., JTAG, USB, GPIB, RS232), and an introduction to the Atmel AVR microcontroller including architecture, addressing, and assembly language for basic programming projects. Prerequisite: EET130.

### **EET132 5 credits**

#### **Digital Fundamentals III**

Explores complex programmable logic devices (CPLDs) and field programmable gate arrays (FPGAs) including applications, processes for programming, DC parameters and timing analysis and troubleshooting. Applications include Sequential Logic, Latches, Flip/Flops, Timers, Counters/Registers, HDL Implementation, PLD HW Implementation, Finite State Machine Design/Analysis, Logic Testing, MPU System, and Memory Devices. Laboratory assignments and projects will focus on using the Xilinx platform and Verilog programming language to implement and test designs. Prerequisite: EET131.

### **EET140 6 credits**

#### **Solid State Fundamentals**

Introduces the theory, mathematical concepts, calculations, application, and troubleshooting of semiconductor solid-state electrical devices. Topics include atomic theory basis of semiconductor electrical behavior and PN junction theory and applications, including diode and bipolar junction transistors. The course emphasizes utilization of graphical, analytical, and modeling techniques for DC and AC analysis of solid-state diode and bi-polar junction amplifier small signal circuit applications. Heavy emphasis is placed on integration of circuit theory to problem solving and troubleshooting skills. In addition to hands-on experience with industry-standard test equipment, software simulation is used to enhance the presentation of theory and circuit applications, and development of troubleshooting skills. Prerequisite: EET126.

### **EET180 Variable credit**

#### **Cooperative Work Experience/ Electronics**

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. Prerequisite: Student must make arrangements with department prior to enrolling in this course.

### **EET199 1 to 6 credits**

#### **Selected Topics in Technology**

Provides study for students in technical programs in areas linked to industry. State-of-the-art equipment is used for industry standard-level instruction. Prerequisites: Student must be an Electronics Technology major.

### **EET205 1 credit**

#### **International Society of Certified Electronics Technicians (ISCET) Certification Preparation**

Prepares students for ISCET associate level examination using software, review exercises, and ISCET study guide. Emphasis is on direct current, alternating current, digital and solid-state theory, devices, and circuits. In addition, component, circuit, and systems troubleshooting is reviewed with an emphasis on proper test equipment calibration, set up, and usage. Prerequisite: EET220

### **EET215 5 credits**

#### **Operational Amplifiers and Linear Integrated Circuits**

Covers theory, operational characteristics, and typical applications of operational amplifier and linear integrated circuit devices. Operational amplifier topics include differential amplifier theory, application of positive and negative feedback, operational characteristics, and typical circuit applications. Linear integrated circuit topics include power supplies, special amplifier circuits, and data conversion circuits. In addition to theory and basic circuit applications, emphasis is placed on industry standard circuit applications. Hands-on experience with industry standard test equipment is supplemented with computer simulation to enhance presentation of theory and circuit applications and development of troubleshooting skills. Prerequisite: EET140



## **EET220 6 credits**

### **Solid State Devices**

Covers the theory and application of solid-state semiconductor field effect transistors and thyristors. Topics include theory and application of field effect transistors as switches and amplifiers, large signal amplifier applications of bipolar junction transistors, frequency analysis in solid state circuits, and silicon controlled rectifier theory and applications. Static and dynamic analysis of device and circuit operational performance is covered with application to problem solving and troubleshooting skills. In addition to hands-on experience with industry-standard test equipment, computer simulation is used to enhance the presentation of theory and circuit applications and to develop troubleshooting skills. Prerequisite: EET140

## **EET225 3 credits**

### **Electronics Troubleshooting**

Presents comprehensive theory and hands-on application of troubleshooting electronics components, circuits, and systems. Instruction includes technician responsibilities, safety, troubleshooting digital and analog systems, block and schematic diagram reading, test equipment loading and limitations, component faults/failures, opens and shorts, parts replacement, final inspection and test, and documentation. Prerequisite: EET220

## **EET230 6 credits**

### **Radio Frequency Communications Fundamentals**

Examines the principles and circuitry utilized for radio frequency transmission and reception. In addition to basic principles and underlying theory, typical circuits for implementing amplitude modulation, frequency modulation, and digital communications techniques are discussed. Additional topics include basic principles and typical structure of communications receivers and transmitters, basic principles and techniques for multiplexing and de-multiplexing radio frequency signals, transmission line theory and application, electromagnetic wave propagation, and antenna fundamentals. Emphasis is placed on development of hands-on operational performance evaluation, tuning, and troubleshooting skills. Prerequisite: EET220

## **EET235 5 credits**

### **Microwave Applications**

Provides instruction in microwave theory and hands-on experience in using test instrumentation to explore the characteristics of microwave technology. Explores transmission lines, VSWR, the Smith Chart, impedance matching, stripline, microstrip and S parameters. Includes mixer/detector characteristics, up and down converters, IF strips, noise figure and temperature, receiver sensitivity, amplifiers, filters, duplexers, couplers, attenuators, terminators, isolators, mismatch loss, switches, propagation loss, antenna gain, and connectors. Includes hazards of microwave radiation to personnel and electrostatic discharge (ESD) to sensitive solid-state components. Prerequisite: EET230

## **EET240 5 credits**

### **Microcontrollers I**

Provides detailed instruction in the software and hardware architecture of the Atmel AVR 8-bit RISC microcontrollers. Assembly language programming, debugging, and hardware interfacing allows for investigation of registers, memory maps, timing, decoding, memory addressing, and input/output porting of microcontroller-based systems. Prerequisite: EET130

## **EET241 5 credits**

### **Microcontrollers II**

Continues exploration of computer architecture with focus on the Atmel AVR 8-bit RISC microcontrollers. Includes advanced study of interfacing and initializing of specialized integrated circuits necessary for advanced applications. Students will also explore the circuitry and programming necessary to interface high-power devices like stepper motors to microcomputer ports. In addition, students will be introduced to C high-level language as it relates to programming microcontroller-based systems. Prerequisite: EET240

## **EET250 4 credits**

### **Prototype Development and Documentation**

Emphasizes technical writing and documentation while developing a functioning electronic system. Includes design and construction of a prototype electronic project requiring integration of a microcontroller-based system with digital and analog devices. Projects include the use of complex programmable logic devices (CPLDs) from Xilinx and embedded devices that include the AVR microcontrollers, Raspberry Pi, or Arduino platforms, with instructor approval, the Web Pack software ISE 7.1 for development of designs and test bench waveforms. Prerequisites: EET220 and EET240. Corequisite: EET241 recommended.

## **EET280 Variable credit**

### **Cooperative Work Experience/Engineering**

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. Prerequisite: Student must be an Electronics Technology major and make arrangements with the department prior to enrolling in this course.

## **EMERGENCY MEDICAL SERVICES**

### **Career and Technical Courses**

## **EMS160 2 credits**

### **Electrocardiogram (ECG) Interpretation**

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. Prerequisite: Some form of medical training or background is suggested (e.g., EMT, CNA, etc.).

## **EMS165 2 credits**

### **Introduction to Pharmacology for Health Occupations**

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 cover patient conditions related to medications and the effects medications have on the patient's body. The course also introduces correct medication administration procedures and the medications prescribed or administered that specifically target the autonomic nervous and cardiovascular systems. Prerequisites: MTH20 and RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

## **EMS170 2 credits**

### **Emergency Communication and Documentation**

Covers principles of therapeutic communication, verbal, written, and electronic communications in the provision of EMS, documentation of elements of patient assessment, care and transport, communication systems, radio types, reports, codes, and correct techniques. Corequisite: ES131 or current EMT license.

## **EMS211,211L 5 credits**

### **Advanced EMT Intermediate – Part I w/Lab**

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. 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 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. Prerequisites: 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. Corequisites: Concurrent enrollment in EMS211 and EMS211L is required.

## **EMS212,212L 5 credits**

### **Advanced EMT Intermediate – Part II w/Lab**

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. 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. Prerequisites: Current Oregon EMT or A-EMT licensure. Successful completion of EMS211 and EMS211L. Prior to clinical experience a criminal background check and drug screen must be completed. Corequisites: Concurrent enrollment in EMS212, EMS212L and EMS222 is required.



## **EMS213,213L 3 credits**

### **Advanced EMT Intermediate – Part III w/Lab**

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. 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 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. Prerequisites: Current Oregon EMT or A-EMT licensure. Successful completion of EMS212, EMS212L and EMS222. Prior to clinical experience a criminal background check and drug screen must be completed. Corequisites: Concurrent enrollment in EMS213, EMS213L and EMS223 is required.

## **EMS222 1 credit**

### **Advanced EMT Intermediate – Clinical Practice II**

Provides clinical experience that focuses on practical application of the skills and knowledge acquired in EMS211/211L and EMS212/212L. Prerequisites: Current Oregon EMT or A-EMT licensure. Successful completion of EMS211 and EMS211L. Prior to clinical experience a criminal background check and drug screen must be completed. Corequisites: Concurrent enrollment in EMS212 and EMS212L are required.

## **EMS223 2 credits**

### **Advanced EMT Intermediate – Clinical Practice III**

Provides clinical experience that focuses on practical application of the skills and knowledge acquired in EMS211/211L, EMS212/212L, EMS213 and EMS213L. Prerequisites: Current Oregon EMT or A-EMT licensure. Successful completion of EMS212, EMS212L and EMS222. Prior to clinical experience a criminal background check and drug screen must be completed. Corequisites: Concurrent enrollment in EMS213 and EMS213L are required.

## **EMS271 8 credits**

### **Paramedic Part I**

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. Prerequisites: Current Oregon EMT, AEMT, or Oregon EMT Intermediate license. This is a limited-entry course and requires completion of an application process prior to admission.

## **EMS271L 2 credits**

### **Paramedic Lab Part I**

Develops students' abilities to recognize and treat the symptoms of illness and injury in classroom labs and simulated emergency scenes. Includes hands-on assessment and utilizes both Basic and Advanced Life Support equipment to apply the concepts learned in EMS271. Also develops skills and abilities in managing emergency medical scenes, coordinating resources, and delegating tasks as appropriate. Prerequisites: Current Oregon EMT, AEMT,

or EMT-Intermediate license. This is a limited-entry course and requires completion of an application process prior to admission. Corequisites: Concurrent enrollment in EMS271, EMS271L and EMS281 is required.

## **EMS272 8 credits**

### **Paramedic Part II**

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. Reviews neonatal care and pediatrics covered in fall term, and includes the Pediatric Advanced Life Support (PALS) course. Also covers neurologic, psychiatric, and special needs patients. Prerequisites: Current Oregon EMT, AEMT, or EMT-Intermediate license and completion of EMS271, EMS271L and EMS281 with a "C" or better. Corequisites: Concurrent enrollment in EMS272, EMS272L and EMS282 is required.

## **EMS272L 2 credits**

### **Paramedic Lab Part II**

Develops students' abilities to recognize and treat the symptoms of illness and injury in classroom labs and simulated emergency scenes. Includes hands-on assessment and utilizes both Basic and Advanced Life Support equipment to apply the concepts learned in EMS272. Also develops skills and abilities in managing emergency medical scenes, coordinating resources, and delegating tasks as appropriate. Prerequisites: Current Oregon EMT, AEMT, or EMT-Intermediate license and completion of EMS271, EMS271L and EMS281 with a "C" or better. Concurrent enrollment in EMS272, EMS272L and EMS282 is required. Corequisites: Concurrent enrollment in EMS272, EMS272L and EMS282 is required.

## **EMS273 5 credits**

### **Paramedic Part III**

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. Also covers gastrointestinal and renal issues, toxicology, infectious disease, environmental emergencies, endocrinology, and ethical and legal issues. Prerequisites: Current Oregon EMT, AEMT, or EMT-Intermediate license and completion of EMS272, EMS272L and EMS282 with a "C" or better. Corequisites: Concurrent enrollment in EMS273, EMS273L and EMS283 is required.

## **EMS273L 2 credits**

### **Paramedic Lab Part III**

Develops students' abilities to recognize and treat the symptoms of illness and injury in classroom labs and simulated emergency scenes. Includes hands-on assessment and utilizes both Basic and Advanced Life Support equipment to apply the concepts learned in EMS273. Also develops skills and abilities in managing emergency medical scenes, coordinating resources, and delegating tasks as appropriate. Prerequisites: Current Oregon EMT, AEMT, or EMT-Intermediate license and completion of EMS272, EMS272L and EMS282 with a "C" or better. Corequisites: EMS273, EMS273L and EMS283.

## **EMS281 1 credit**

### **Paramedic Clinical Practice I**

The clinical experience of this course will focus on airway management in the OR setting and patient assessment in the Emergency Department. The class will begin with

an orientation session to the FISDAP 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. Prerequisites: Current Oregon EMT, AEMT, or EMT-Intermediate license. Corequisites: Concurrent enrollment in EMS271, EMS271L and EMS281 is required.

## **EMS282 2 credits**

### **Paramedic Clinical Practice II**

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. Specific procedures and issues common to these clinical sites will be reviewed with the students prior to beginning their rotations. Prerequisites: Current Oregon EMT, AEMT, or EMT-Intermediate license and completion of EMS271 and EMS281 with a "C" or better grade. Corequisites: Concurrent enrollment in EMS272, EMS272L and EMS282 is required.

## **EMS283 2 credits**

### **Paramedic Clinical Practice III**

The clinical experience of this course will focus on patient assessment and treatment, and application of paramedic skills in the ED, airway management in the OR setting, management of critical patients in the ICU and CCU, and assessment and management of patients with respiratory conditions. Specific procedures and issues common to these clinical sites will be reviewed with the students prior to beginning their rotations. Prerequisites: Current Oregon EMT, AEMT, or EMT-Intermediate license and completion of EMS272 and EMS282 with a "C" or better grade. Corequisites: Concurrent enrollment in EMS273, EMS273L and EMS283 required.

## **EMS284 8 credits**

### **Paramedic Clinical Practice IV**

This is the field internship portion of the paramedic course. Individual conferences with the course director, clinical coordinator and clinical instructor will be conducted throughout the course of the term. Prerequisites: Current Oregon EMT, AEMT, or EMT-Intermediate license and completion of EMS273/EMS273L, and EMS283 with a "C" or better.

## **EMS299 Variable credit**

### **Workshop: Emergency Medical Service Training**

Provides inservice training in a variety of emergency medical service topics. Prerequisites: Current Oregon EMT, AEMT, EMT-Intermediate, or paramedic license.

## **ES105 4 credits**

### **Introduction to Emergency Services**

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.



## **ES131 4 credits**

### **Emergency Medical Technician Part I**

ES131 is the first 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 setting. Prerequisite: 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. Corequisites: Concurrent enrollment in ES131 and ES131L is required.

## **ES131L 1 credit**

### **Emergency Medical Technician Part I 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). Prerequisite: 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. Corequisites: Concurrent enrollment in ES131 and ES131L is required.

## **ES132 4 credits**

### **Emergency Medical Technician Part II**

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 setting. Prerequisite: Successful completion of ES131 and ES131L. Prior to clinical experience, a criminal background check and drug screen must be completed. Corequisites: Concurrent enrollment in ES132 and ES132L is required.

## **ES132L 1 credit**

### **Emergency Medical Technician Part II Lab**

ES132L 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 (12-hours each). Prerequisite: Successful completion of ES131 and ES131L. Prior to clinical experience, a criminal background check and drug screen must be completed. Corequisites: Concurrent enrollment in ES132 and ES132L is required.

## **ES171 2 credits**

### **Emergency Vehicle Operations**

Presents the most up-to-date information on ambulance and fire apparatus operations and the techniques used to safely operate them. This course provides the practical, hands-on experience necessary for students to become safe and knowledgeable emergency vehicle operators. Course meets the requirements for Emergency Response and Transportation as outlined in the statewide Oregon Paramedicine degree. Prerequisite: Valid Oregon driver's license.

## **ES205 3 credits**

### **Crisis Management**

Focuses on crises encountered in a variety of settings related to public safety. Presents material 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 emergency services worker health and wellness. Techniques on the initial intervention, defusing and assessment, and referral in crisis are discussed. Prerequisites: BT113 or WR115 or designated placement test scores and completion of ES131/ES131L or current Oregon EMT, Advanced-EMT, or EMT-Intermediate license.

## **ES268 3 credits**

### **Emergency Service Rescue**

Introduces elementary procedures of rescue practices, systems, components, support, and control of rescue operations. Includes techniques and tools of patient extrication and emphasizes their applications in traffic accidents as required for paramedic certification. Prerequisite: ES132.

## **ES280 Variable**

### **Cooperative Work Experience: Emergency Services**

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. Prerequisites: ES132 and ES132L or FRP 251; students must be Emergency Services majors, and make arrangements with the department prior to enrolling in this course.

## **ES295 3 credits**

### **Health and Fitness for Emergency Service Workers**

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. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

## **ENGINEERING**

### **Lower Division Collegiate**

## **ENGR101 2 credits**

### **Engineering Orientation I: Careers, Skills and Computer Tools**

Introduces engineering curricula, career paths, ethics, problem solving, communication, and computer programming. The three-term sequence is required for all areas of engineering. Prerequisite: MTH111.

## **ENGR102 2 credits**

### **Engineering Orientation II: Careers, Skills and Computer Tools**

Examines communication and problem-solving skills in engineering. Prerequisite: ENGR101.

## **ENGR103 2 credits**

### **Engineering Orientation III: Careers, Skills and Computer Tools**

Examines communication and problem-solving skills in engineering. Prerequisite: ENGR102.

## **ENGR201 3 credits**

### **Electrical Fundamentals I w/Lab**

Examines electrical theory laws. Includes circuit analysis of DC circuits; natural, step, and sinusoidal responses of circuits; and operational amplifier characteristics and applications. Prerequisite: MTH251.

## **ENGR202 3 credits**

### **Electrical Fundamentals II w/Lab**

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. Prerequisite: ENGR201.

## **ENGR211 3 credits**

### **Statics**

Analyzes forces induced in structures and machines by various types of loading. Prerequisite: PH211.

## **ENGR212 3 credits**

### **Dynamics**

Explores kinematics, Newton's laws of motion, work-energy theorem, and impulse-momentum relationships as applied to engineering systems. Prerequisite: ENGR211.

## **ENGR213 3 credits**

### **Strength of Materials**

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. Prerequisite: ENGR211.

## **ENGLISH**

### **Lower Division Collegiate**

## **ENG104 4 credits**

### **Introduction to Literature (Fiction)**

Provides a survey of important works of fiction by writers from different cultures and time periods. The course is



designed to foster thoughtful interpretation, analysis, and appreciation of fiction. Prerequisite: WR115 or designated placement test score.

### **ENG105 4 credits**

#### **Introduction to Literature (Drama)**

Provides a survey of representative works of drama from different cultures and time periods. In addition to providing an introduction to important plays, playwrights, and historical movements in drama, the course explores the nature of the dramatic experience, with emphasis on understanding and appreciating live productions. Prerequisite: WR115 or designated placement test score.

### **ENG106 4 credits**

#### **Introduction to Literature (Poetry)**

Explores the artistic use of language and a world made larger through the vicarious experiences offered through poetic expression. Prerequisite: WR115 or designated placement test score.

### **ENG107 4 credits**

#### **World Literature: Ancient to Classical**

Surveys important works from the literature of early civilizations: Egyptian, Hebrew, Greek, Chinese, Indian, and Roman. Course is designed to foster thoughtful interpretation, analysis, and appreciation of literature. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement test score.

### **ENG108 4 credits**

#### **World Literature: Medieval to Renaissance**

Provides insights into the important works from India's Classical Age, China's 'Middle Period,' the rise of Islam, the Middle Ages in Western literature, the Golden Age of Japan, and the Renaissance in Europe. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement test score.

### **ENG109 4 credits**

#### **World Literature: Enlightenment to Modern**

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. Prerequisite: WR115 or designated placement test score.

### **ENG199 Variable credit**

#### **Special Studies: English**

The course is offered in a number of formats: workshop, seminar, or independent study. Prerequisite: WR115 or designated placement test score.

### **ENG201 4 credits**

#### **Shakespeare I**

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. Prerequisite: WR115 or designated placement test score.

### **ENG202 4 credits**

#### **Shakespeare II**

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. Prerequisite: WR115 or designated placement test score.

### **ENG204 4 credits**

#### **Survey of English Literature: Medieval to Renaissance**

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. Prerequisite: WR115 or designated placement test score.

### **ENG205 4 credits**

#### **Survey of English Literature: 18th Century to Romantic**

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. Prerequisite: WR115 or designated placement test score.

### **ENG206 4 credits**

#### **Survey of English Literature: Victorian to Modern**

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. Prerequisite: WR115 or designated placement test score.

### **ENG253 4 credits**

#### **Survey of American Literature: Colonial**

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. Prerequisite: WR115 or designated placement test score.

### **ENG254 4 credits**

#### **Survey of American Literature: 19th Century**

Provides a survey 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. Prerequisite: WR115 or designated placement test score.

### **ENG255 4 credits**

#### **Survey of American Literature: 20th Century**

Provides a survey of American literature between the early 1900s to 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. Prerequisite: WR115 or designated placement test score.

### **ENG257 4 credits**

#### **African American Literature**

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. Prerequisite: WR115 or designated placement test score.

### **ENG260 4 credits**

#### **Introduction to Women Writers**

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. Prerequisite: WR115 or designated placement test score.

### **ENG275 4 credits**

#### **The Bible as Literature**

Studies the composition, stories, and themes of the Bible in order to deepen understanding of its meaning and influence. Prerequisite: WR115 or designated placement test score.

### **ENG280 Variable credit**

#### **Cooperative Work Experience/English**

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.

## **ENVIRONMENTAL SCIENCE**

### **Lower Division Collegiate**

### **ENV111 3 credits**

#### **Introduction to Environmental Science**

Introduces the uses of chemical, physical, and biological principles to explain the complexity and diversity found in environmental systems. Designed for both environmental science majors and non-majors, the course 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. Prerequisites: MTH20 and BT113 or WR115, or designated placement test scores.



## FIRE SCIENCE

### Career and Technical Courses

#### FRP199 1 to 3 credits

##### Workshop: Fire Science

Includes a series of workshops on fire science operations to upgrade skills and explore new methods. Meets a variety of Oregon Department of Public Safety Standards and Training accredited topics.

#### FRP211 3 credits

##### Hiring Practices in the Fire Service

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.

#### FRP233 3 credits

##### Firefighter Safety and Survival

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. Corequisite: FRP251.

#### FRP238 3 credits

##### Public Education, Relations and Information

Educates the student to the concepts of public education, public relations and public information in the fire service. Introduces the student to developing honest, responsible and timely messages, using appropriate communication methods, media relations and marketing concepts.

#### FRP241 3 credits

##### Fire Prevention Inspections

Provides the student with knowledge and skills necessary to prepare for and perform effective fire prevention inspections in a variety of occupancies. Meets Department of Public Safety Standards and Training #41-02 Fire Prevention Inspections.

#### FRP242 3 credits

##### Introduction to Codes and Ordinances

Studies codes used in the fire service that provide students with the knowledge needed to perform company level fire inspections and ensure buildings in AHJ coverage area meet fire and life safety standards for both new and old construction types.

#### FRP243 3 credits

##### Advanced Codes and Ordinances

Provides an in depth look at the authority of the fire code in the state of Oregon, both in Oregon Revised Statutes and Oregon Administrative Rules. Studies the interrelationship with the building code authority and other codes and standards related to the application and enforcement of the fire code in Oregon. Prerequisite: FRP242.

#### FRP249 3 credits

##### Fire Service Leadership

Examines and develops leadership and supervisory skills for mid-level supervisors in the fire service. Prerequisite: FRP251.

#### FRP251,FRP251L 8 credits

##### Firefighter Level I and Lab

Introduces basic training including 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 NFPA1001.

#### FRP252 4 credits

##### Firefighter Level II

Covers firefighting skills required to perform proficiently on the fire scene. Meets National Fire Protection Association 1001 Standards for Firefighter II. Prerequisites: FRP251 and FRP251L.

#### FRP256 3 credits

##### Fire Behavior and Combustion

Assists students in gaining a solid 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. This course meets Department of Public Safety Standards and Training #25-08 and #43-02. Corequisites: FRP251 and FRP251L.

#### FRP258 3 credits

##### Pumper Operator I

Covers hydraulic and fluid principles, friction loss, basic fire ground hydraulics, basic fire pump construction and operating principles. When combined with FRP259, meets Oregon Department of Public Safety Standards and Training and National Fire Protection Association #1002 Pumper Operator. Prerequisite: ES171.

#### FRP259 3 credits

##### Water Supply Operations

Covers foam equipment and operations, drafting, relay and tandem pumping, apparatus service testing, and advanced troubleshooting and maintenance. Combined with FRP258, meets Oregon Department of Public Safety Standards and Training and National Fire Protection Association #1002 Pumper Operator. Prerequisites: ES171 and FRP258 or DPSST Driver and DPSST Pumper Operator.

#### FRP261 1 credit

##### Hazardous Materials First Responder Operations

Covers recognizing the presence of hazardous materials/weapons of mass destruction and initial actions for the first responder. Meets NFPA 472 – Responder to Hazardous Materials/Weapons of Mass Destruction Operations Level.

#### FRP262 3 credits

##### Fundamentals of Fire Prevention

Presents the fundamentals of fire prevention including recognized standards, practices and procedures.

#### FRP264 3 credits

##### Building Construction for Fire Protection

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.

#### FRP272 3 credits

##### Fixed Systems and Extinguishers

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.

#### FRP273 3 credits

##### Fire Investigation

Provides an overview of basic fire investigation techniques, chemistry, laws, motives for arson, and interviewing witnesses and suspects. Corequisite: FRP251.

#### FRP274 3 credits

##### Firefighting Strategy and Tactics

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.

#### FRP285 3 credits

##### Fire Instructor I

Studies various instructional techniques and methodologies for teaching diverse learners, 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 Instructor I.

## GENERAL SCIENCE

### Lower Division Collegiate

#### GS104 4 credits

##### Physical Science w/Lab

This is the first of the general science series and is a prerequisite to many other science courses. Presents an integrated study of forces and motions in the physical world. Students must enroll in lecture and laboratory sections. Prerequisites: MTH60 and RD90 or WR91 or designated placement test scores. MTH65 is also recommended.

#### GS106 4 credits

##### Physical Science: Earth Science w/Lab

Introduces various branches of earth science. Includes basic terminology, fundamental processes, and respective interrelationships. Includes rocks and minerals, the structure of the earth, water, geologic history, the atmosphere, weather, the solar system, stars, and introduces cosmology. Students must enroll in lecture and laboratory sections. Prerequisite: GS104.

#### GS107 4 credits

##### Physical Science: Astronomy w/Lab

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. Prerequisite: GS104.



## **GS108 4 credits**

### **Physical Science: Oceanography w/Lab**

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. Prerequisite: MTH60 or designated placement test score.

## **GS170 4 credits**

### **Regional Field Studies**

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. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores.

## **GS199 Variable credit**

### **Special Studies: General Science**

Offers individual and small group studies in a variety of science topics. May include ecological, biological, geological, and/or climatological emphasis.

## **GS280 Variable credit**

### **Cooperative Work Experience/ General Science**

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. Prerequisite: Student must make arrangements with department prior to enrolling in this course.

## **GEOGRAPHY**

### **Lower Division Collegiate**

## **GEOG100 3 credits**

### **Introduction to Physical Geography**

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. Prerequisite: BT113 or WR115 or designated placement test score.

## **GEOG110 3 credits**

### **Introduction to Cultural and Human Geography**

Surveys world patterns of culture, population, migration, language, religion, ethnicity, and political systems. Examines the geographies of human development including urban areas, agriculture, industry and services. Emphasizes the many facets of interactions between human culture and the natural world, with a focus on environmental sustainability. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: BT113 or WR115 or designated placement test score.

## **GEOG120 3 credits**

### **World Regional Geography**

Examines the 11 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. Prerequisite: BT113 or WR115 or designated placement test score.

## **GEOLOGY**

### **Lower Division Collegiate**

## **G100 3 credits**

### **Fundamentals of Geology**

Studies the earth's physical processes and properties with an emphasis on understanding the scientific theories behind the geological principles. Prerequisite: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores.

## **G101 4 credits**

### **Introduction to Geology I (Tectonics) w/Lab**

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. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores.

## **G102 4 credits**

### **Introduction to Geology II (Surface Process) w/Lab**

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. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores. G101 is also recommended.

## **G103 4 credits**

### **Introduction to Geology III (Historical) w/Lab**

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. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores. G101 and/or G102 are also recommended.

## **HEALTH CARE**

### **Career and Technical Courses**

## **HC100 6 credits**

### **Community Health Worker**

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. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

## **HC120 3 credits**

### **Introduction to the Health Care Industry**

Explores the U.S. health system focusing on its historical development, current configuration, and possible future direction. Included will be the study of health system development, key influencers, accessibility, financing, changing components and the effects the system has on patients, providers, financiers, employers, government and insurers. Particular attention will be paid to the future direction of health care and what parts of the system are likely to change. Corequisite: WR115.

## **HC1210 3 credits**

### **Legal Aspects of Medical Records**

Focuses on the concepts of confidentiality, health care legislation, and regulations relating to the maintenance and use of health information in the U.S. health care system. Provides a foundation for studies in health care informatics including existing state and federal regulations that govern the use, disclosure, retention, and source of protected health information (PHI) in various roles and responsibilities within the health care system. Prerequisite: WR115 or designated placement test score.

## **HC1255 3 credits**

### **Introduction to Health Care Informatics**

Introduces the discipline of health informatics including history, basic knowledge of health informatics, data management, vocabularies, standards and tools as applied in



the support of health care delivery. Prerequisite: CS120 or CIS120 or documented proficiency, and WR115 or designated placement test score.

## HEALTH EDUCATION

### Lower Division Collegiate

#### HE112 1 credit Emergency First Aid

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 Sam 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.

#### HE131 3 credits Introduction to Exercise and Sport Science

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. Several guest speakers representing various careers/areas in EXSS will present their experiences to the class. Basic online research skills will also be covered to allow students to seek out accurate and reliable information about EXSS. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores. HPE295 is also recommended.

#### HE199 Variable credit Special Studies: Health

Presents special topics in health including, but not limited to, smoking cessation, stress management, heart and back health, emotional health, and wellness assessment. Prerequisites: RD90 and WR90, (WR91 substitutes for both RD90 and WR90), or designated placement test scores.

#### HE208 1 credit HIV and Infectious Diseases

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. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores.

#### HE250 3 credits Personal Health

Examines personal and societal health topics including consumer health issues, major disease patterns, and the elements of good health, and relates them to daily life. Prerequisite: WR115 or designated placement test score.

#### HE252 3 credits First Aid/CPR

Offers a basic life support (BLS) plan for emergency care of cardiac victims until EMS arrives. Helps 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 (CABs), students are taught assessment skills that allow evaluation of one- and two-rescuer strategies on adults, children and infants (excluding newborns), airway obstruction relief, and how to appropriately use an Automated External Defibrillator (AED). 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. Building on these skills is basic Community Emergency Response Team (CERT) training. It provides the 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 two certifications from the American Heart Association: American Heart Association's Emergency First Aid Heartsaver® card and an American Heart Association Basic Life Support Provider card, both valid for two years. Prerequisite: WR90 or WR91, or designated placement test score.

#### HE253 3 credits Wilderness First Aid

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). Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores, and physical abilities to allow hiking and lifting equipment. Basic first aid knowledge and CPR is useful.

#### HE259 3 credits Care and Prevention of Athletic Injury

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. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores. BI121 is also recommended.

#### HE261 1 credit CPR/Basic Life Support Provider

Offers a basic life support plan for emergency care of cardiac victims until EMS takes responsibility for the victim. This is a Basic Life Support (BLS) Provider course 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. The course is taught at the provider level through the American Heart Association and results in a CPR, Basic Life Support Provider card upon successful completion. Repeatable every two years, with a limit of two occurrences.

#### HE280 Variable credit Cooperative Work Experience/ Health Science

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.

**HPE295 3 credits  
Health and Fitness for Life**  
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. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

## HISTORY

### Lower Division Collegiate

#### HST104 4 credits World Civilizations: Prehistory - Middle Ages

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. Covers pre-history to the Middle Ages. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: BT113 or WR115 or designated placement test score.



## **HST105 4 credits**

### **World Civilizations: Byzantium - Present**

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. Covers the Byzantium to the present. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: BT113 or WR115 or designated placement test score.

## **HST199 3 credits**

### **Special Studies: History**

Presents special topics of study in history through workshop, seminar, and independent study formats.

## **HST201 4 credits**

### **U.S. History through Reconstruction**

Surveys American history from the early native populations through Reconstruction after the Civil War. Each course presents a detailed coverage of influences – political, social, ethnic, religious, cultural, technical, and geographical – that have affected the history of the United States. Prerequisite: BT113 or WR115 or designated placement test score.

## **HST202 4 credits**

### **U.S. History: Post-Reconstruction - Present**

Surveys American history from the early native populations through the Progressive Era to the present. Each course presents a detailed coverage of influences – political, social, ethnic, religious, cultural, technical, and geographical – that have affected the history of the United States. Prerequisite: BT113 or WR115 or designated placement test score.

## **HST259 4 credits**

### **The Chicano/Latino Historical Experience**

Examines the diversity that resides within the Chicano, Mexican, Latino, Hispanic and Caribbean cultural experience in the Americas, beginning from pre-Columbian times to the present. The curriculum 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, thus bringing awareness of contemporary expressions of identity and their historical origins. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Dual numbered as SOC235. Prerequisites: BT113 or WR115 or designated placement test score.

## **HST280 Variable credit**

### **Cooperative Work Experience/History**

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.

## **HUMAN DEVELOPMENT**

### **Career and Technical Courses**

## **HD114 2 credits**

### **Life Planning**

Provides 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. Prerequisites: BT113 or WR115 or designated placement test score.

## **HD215 2 credits**

### **Transfer Success**

Prepare 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. Prerequisites: CS120 or CIS120 or BA131 or documented proficiency, and BT114 or WR121.

## **HUMAN DEVELOPMENT/ FAMILY SCIENCE**

### **Lower Division Collegiate**

## **HDFS260 3 credits**

### **Child Abuse and Neglect**

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. Prerequisite: BT113 or WR115 or designated placement test score. Corequisite: PSY202.

## **HUMAN SERVICES**

### **Career and Technical Courses**

## **HS100 3 credits**

### **Introduction to Human Services**

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 designed for human services majors and for students

wanting to learn about the field of human services. It is a required class for any Human Services degree or certificate and is a prerequisite to practicum placement. Prerequisite: Admission into the Human Services program.

## **HS115 1 credit**

### **Principles of Client Record Management**

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. Prerequisite: Admission into the Human Services program.

## **HS152 1 credit**

### **Stress Management**

Provides students an experiential learning experience geared to developing an understanding of their personal stress levels. The course provides a variety of tools to develop stress management strategies.

## **HS155 4 credits**

### **Interviewing Theory and Techniques**

Provides theory and practice in basic counseling skills. Course is based on the 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. Prerequisites: HS100 and HS170.

## **HS158 3 credits**

### **Trauma-informed Care: Theory and Practice**

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 retraumatization of survivors by social service systems. Students will explore the concept of trauma-informed care and be introduced to examples of trauma-informed systems. Prerequisites: BT113 or WR115 or designated placement test score, and PSY201. PSY202 is strongly recommended.

## **HS170 3 credits**

### **Introduction to Practicum**

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 students develop information and contacts with community agencies. Prerequisite: Admission into the Human Services program.

## **HS175 1 credit**

### **Ethics for Counselors**

Prepares students for ethical decision making in the human services field. Includes study of selected professional codes



of ethics. Case studies will be used for additional practices and integration. Prerequisite: HS100.

### **HS199 1 to 3 credits**

#### **Special Studies: Human Services**

Presents special topics in human services including, but not limited to, adult children of trauma, drug and alcohol abuse among the elderly, client record management, and eating disorders. Prerequisite: Admission into the Human Services program.

### **HS201 3 credits**

#### **Family Dynamics**

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. It is a required course in the Human Services AAS degree program and an elective for human services transfer students. Prerequisites: HS155 and PSY201 and PSY202.

### **HS202 3 credits**

#### **Counseling the Chemically Dependent Client I**

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. Prerequisites: HS155 and CJ243 or SOC243.

### **HS204 3 credits**

#### **Counseling the Chemically Dependent Client II**

Designed specifically as preparation for the Certified Alcohol Drug Counselor I (CADCI) test as offered by the Addiction Counselor Certification Board of Oregon (ACCBO) in conjunction with the Association for Addiction Professionals (NAADAC). Prerequisites: HS155 and HS202.

### **HS210 3 credits**

#### **Motivational Interviewing**

Introduces students to intentional interviewing as a foundation for developing basic counseling skills. Focus will be on developing more intensive counseling skills with significant opportunity for hands-on practice. Prerequisites: HS155 and HS202.

### **HS260 4 credits**

#### **Group Counseling**

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. Prerequisites: HS155 and HS202 and HS210.

### **HS261 Variable credit**

#### **Human Services Practicum and Seminar**

Provides on-site clinical and community experience with human services organizations plus weekly seminars. Students are expected to arrange for a field placement with an approved agency prior to start of class. Seminars provide supervision and assist students to integrate field and classroom experiences and counseling skills. Prerequisites: HS155 and HS170.

### **HS265 3 credits**

#### **Counseling Theories**

Introduces the theoretical concepts and practical applications of counseling intervention strategies for the beginning helping professional. Specific topics include 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. Prerequisites: HS155 and HS202 and HS210.

### **HS266 3 credits**

#### **Crisis Intervention Strategies**

Part of a sequence of courses teaching theory and practice in assessment, intervention, and case handling strategies for the helping professional. 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. Prerequisites: HS155 and HS210.

### **HS268 3 credits**

#### **Co-occurring Disorders: Introductory Theory and Counseling**

Provides entry-level scope and depth of information relative to those human services helpers working with clients with both a mental health and addictions diagnosis. Historical assessment and treatment processes as well as current state-of-the-art models and systems will be studied. Encourages students to examine personal perspectives, beliefs, concerns, anxieties, and attitudes about mental health and addictions concepts and dual diagnosis clients. Prerequisites: HS155 and HS202 and HS210.

## **HUMANITIES**

### **Lower Division Collegiate**

### **HUM101 4 credits**

#### **Introduction to Humanities: Classical to Medieval**

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. Prerequisite: WR115 or designated placement test score.

### **HUM102 4 credits**

#### **Introduction to Humanities: Renaissance to Enlightenment**

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. Prerequisite: WR115 or designated placement test score.

### **HUM103 4 credits**

#### **Introduction to Humanities: Romanticism to 20th Century**

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. Prerequisite: WR115 or designated placement test score.

### **HUM199 Variable credit**

#### **Special Studies in Humanities**

The course is offered in a number of formats: workshop, seminar, or independent study. Prerequisite: WR115 or designated placement test score.

### **HUM215 4 credits**

#### **Native American Arts and Cultures: Eskimo/Inuit**

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. Prerequisite: WR115 or designated placement test score.

### **HUM216 4 credits**

#### **Native American Arts and Cultures: First Nations of the Northwest Coast**

Studies the art and culture of the native peoples of the Northwest Coast from the past to the present. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement test score.



### **HUM217 4 credits**

#### **Native American Arts and Cultures: Nations of the Plains**

Studies the art and culture of the native peoples of the Great Plains from the past to the present. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement test score.

### **HUM218 4 credits**

#### **Native American Arts and Cultures: Nations of the Southwest**

Studies the art and culture of the native peoples of the Southwest from the past to the present. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement test score.

### **HUM219 4 credits**

#### **Native American Arts and Cultures: Peoples of Mexico**

Studies the art and culture of the peoples of pre-Columbian Mexico from the past to the present. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement test score.

### **HUM280 Variable credit**

#### **Cooperative Work Experience/ Humanities**

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. Prerequisite: Student must be a Humanities major and make arrangements with the department prior to enrolling in this course.

## **INTERNATIONAL STUDIES**

### **Lower Division Collegiate**

### **IS110 4 credits**

#### **Introduction to International Studies I**

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. Prerequisite: WR115 or BT113 or designated placement test score.

### **IS111 3 credits**

#### **Introduction to International Studies II**

Investigates contemporary global problems with an emphasis on the ethics of development, environment, foreign policy, and societal change. Prerequisite: WR115 or BT113 or designated placement test score.

## **LIBRARY SCIENCE**

### **Lower Division Collegiate**

### **LIB101 1 credit**

#### **Introduction to Information Literacy**

Covers basic information literacy skills and concepts for personal growth and life-long learning. Topics include barriers to effective research; identifying appropriate sources of information for a given task; evaluating information for a given purpose; recognizing misinformation and explaining why a particular piece of misinformation is misinformation. Students will be introduced to a variety of public and subscription services. Given the online nature of this course, research resources and communication with the instructor will take place through the Internet. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores.

### **LIB127 1 credit**

#### **Introduction to Academic Research**

Covers information literacy skills and concepts related to academic research and writing. Topics include task definition and identifying options; selecting sources and refining the search process; and using information ethically. Students will also be introduced to a variety of public and subscription services. Given the online nature of this course, research resources and communication with the instructor will take place through the Internet. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores.

### **LIB199 Variable credit**

#### **Special Studies: Library**

Offers content focused on information literacy, library science, or other areas related to library instruction.

## **MANUFACTURING TECHNOLOGY**

### **Career and Technical Courses**

### **MEC102 3 credits**

#### **Basic Hand Tools**

Introduces learners to the basic knowledge needed for assembly and the proper and safe application of hand tools. Coursework builds knowledge in the many types of bolts, wrenches, and other fittings commonly used in industry and how to properly apply them, including pneumatic fabrication fittings. Focuses on proper techniques for checking connections and testing fittings with an emphasis on safety. Proper tool use helps in many ways, including injury avoidance, fewer product quality issues, and lower tool breakage costs. Prerequisites: CS120 or CIS120 or documented proficiency, and MTH20, or designated placement test score.

### **MEC103 1 credit**

#### **Industrial Safety**

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 regulation for general workplace safety, personal protective equipment, tools, and machines. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores.

### **MEC110 3 credits**

#### **AC/DC Electrical Systems for Manufacturing**

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. Dual listed as MFG210. Prerequisite: MTH60 or MTH63 or higher level math. EET104 also recommended.

### **MEC114 3 credits**

#### **Safety for Industry**

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. Prerequisites: MTH20 and WR90 or WR91, or designated placement test scores.

### **MEC115 3 credits**

#### **Electrical Control Systems and Sensors for Manufacturing**

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. Dual numbered with MFG215. Prerequisites: MTH60 or MTH63 or higher level math. EET101 is also recommended.

### **MEC116 3 credits**

#### **Quality Practices and Management**

Examines the employee's role in producing a quality product including the benefits of quality and the costs of quality, and problem solving tools for continuous improvement. Prerequisites: MTH20 and WR90 or WR91, or designated placement test scores, and MEC110.



### **MEC118 3 credits** **Manufacturing Processes and Production**

Investigates how to improve quality, eliminate waste, reduce lead-time and inventory, develop productive customer and supplier relationships, cycle time, Kanban, demand-pull, and order push techniques to reduce inventory in the supply chain. Prerequisites: MTH20 and WR90 or WR91, or designated placement test scores, and MEC110 and MEC116.

### **MEC120 4 credits** **Maintenance Awareness**

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. Prerequisites: MTH20 and WR90 or WR91, or designated placement test scores, and MEC110 and MEC116 and MEC118.

### **MEC124 3 credits** **Hoisting and Rigging I**

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. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), and MTH63, or designated placement test scores, and MEC102.

### **MEC125 3 credits** **Pneumatics I**

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. Formerly offered as MFG199H. Prerequisites: CS120 or CIS120 or documented proficiency, and MTH63 and MEC102. MFG116 is also highly recommended.

### **MEC130 3 credits** **Hydraulics I**

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. Prerequisites: CS120 and CIS120 or documented proficiency, and MTH63 and MEC102. MFG116 is also highly recommended.

### **MEC135 4 credits** **Mechanical Drives I**

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. Previously offered as MFG199M.

Prerequisites: CS120 or CIS120 or documented proficiency, and MTH63 and MEC102. MFG116 is also highly recommended.

### **MEC140 2 credits** **Green Production**

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. Prerequisites: MTH20 and WR90 or WR91, or designated placement test scores, and MEC110, MEC116, MEC118, and MEC120.

### **MEC149 4 credits** **Electric Motor Control**

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. Prerequisite: MTH60 or MTH63 or higher level math. MEC110 or MFG210 is also recommended.

### **MEC150 3 credits** **PLC Motor Control**

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. Prerequisites: EET104 and MEC110.

### **MEC151 3 credits** **Programming PLC's I**

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. Prerequisite: MEC150.

### **MEC152 3 credits** **Programming PLC's II**

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. Prerequisite: MEC151.

### **MEC199 Variable credit** **Mechatronics: Special Topics**

Provides study for students in technical programs to areas linked to industry. State-of-the-art equipment is used for industry standard-level instruction. Prerequisites: MTH20 and RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores.

### **MEC226 3 credits** **Pneumatics II**

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. Along with advanced pneumatic principles, 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. Prerequisite: MEC125.

### **MEC228 4 credits** **Pneumatic Fittings and Troubleshooting**

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. Pneumatic fitting construction discusses the construction of pneumatic rubber hoses and methods of connecting rubber hoses to fittings. Prerequisite: MEC226.

### **MEC231 4 credits** **Hydraulics II**

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. Prerequisite: MEC130.

### **MEC233 4 credits** **Hydraulic Troubleshooting**

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. Prerequisite: MEC231.

### **MEC236 4 credits** **Mechanical Drives II**

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. Prerequisite: MEC135.

### **MEC238 4 credits** **Mechanical Drives III**

Includes the lubrication, selection, maintenance and troubleshooting of plain ball bearings. Introduces anti-friction 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. Prerequisite: MEC236.

### **MEC240 3 credits** **Robotics I**

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. Prerequisites: CS120 or CIS120 or documented proficiency, and MTH60 or MTH63 or higher level math, and WR90 or WR91, or designated placement test scores.

### **MFG101 3 credits** **Introduction to Manufacturing**

Designed to develop an understanding of various manufacturing processes, materials, and possible career opportunities in manufacturing-related disciplines. Course includes an orientation to the use of personal computers in manufacturing and various industry standard software programs. Introduces students to problem solving and

laboratory procedures, a survey of common manufacturing processes, including a history of manufacturing technology, economic considerations associated with manufacturing, and the influence of product design on process selection on manufacturing taxonomy, surface finish, tolerances, and functional specifications. Prerequisites: MTH20 and RD90 or WR91, or designated placement test scores.

### **MFG116 2 credits** **Metrology**

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. Prerequisite: CS120 or CIS120 or documented proficiency.

### **MFG121 4 credits** **Manufacturing Processes I**

As the first of a three-term series, this course is designed to develop both an understanding of manufacturing concerns and limitations of industry and the hands-on skills needed for machining jobs in manufacturing. Covers basic manufacturing skills and machine tooling practices. Emphasizes safety, bench work, engine lathes, vertical and horizontal mills, precision grinding, tool-room operations, and production work through a series of projects. Prerequisites: MTH60 or MTH63 or designated placement test score, and MFG116.

### **MFG122 4 credits** **Manufacturing Processes II**

As the second in a three-term series, this course is designed to continue the development of both an understanding of manufacturing concerns and limitations of industry and the hands-on skills needed for machining jobs in manufacturing. Course continues and expands basic manufacturing skills and machine tooling practices. Emphasis on safety, bench work, engine lathes, vertical and horizontal mills, precision grinding, tool room operations, and production work through a series of projects. Prerequisite: MFG121.

### **MFG123 4 credits** **Manufacturing Processes III**

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 in a prototype production run using the multiple manufacturing processes. Students will work to build, document, and evaluate all phases of a prototype production run. Prerequisite: MFG122.

### **MFG140 2 credits** **CNC Controls (Haas)**

Designed to develop an understanding of the Haas VF-1 CNC Control. Basic functions and operating modes of the Haas control are covered. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) and MTH60 or MTH63. MFG121 is also recommended.

### **MFG199 Variable credit** **Special Studies in Manufacturing**

Presents special studies in manufacturing through workshop, seminar, and independent study formats.

### **MFG210 3 credits** **AC/DC Electrical Systems for Manufacturing**

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. Dual numbered as MEC110. Prerequisite: MTH60 or MTH63 or higher level math. EET101 is also recommended.

### **MFG211 4 credits** **Manufacturing Power and Control Electronics**

Introduces the fundamental concepts of industrial manufacturing power and control electronics and their applications, such as measuring temperature, speed, and analog signals. Students learn how to operate, adjust, and troubleshoot electronic components, circuits, and systems used in machine applications across various industries including manufacturing, transportation, energy, and construction. In addition, students will study the concepts of solid state electronics as they apply to modern manufacturing applications such as switching power supplies, analog and discrete sensing, solid state relays, transistors, PWM amplifiers, and variable speed motor control. Specifically, students will study objectives such as operation of a full-wave rectifier, the installation of a photoelectric sensor, and testing a triac relay circuit. Safety is emphasized throughout, highlighting industrial safety, lockout/tagout and safety interlocks. Prerequisite: MTH60 or MTH63 or higher level math. EET101 is also highly recommended.

### **MFG215 3 credits** **Electrical Control Systems and Sensors for Manufacturing**

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. Dual numbered as MEC115. Prerequisite: MTH60 or MTH63 or higher level math. EET101 is also recommended.



## **MFG220 4 credits**

### **Research and Development Prototyping**

A capstone project class that introduces the process of prototype development and design. Emphasizes the research and documentation required to take an idea from concept to production. Incorporates industrial design build team concepts. Designed prototypes are built in MFG255. Prerequisite: Second year standing in program. Corequisite: WR121.

## **MFG230 3 credits**

### **Statistics and Quality Control**

Introduces ISO 9000 concepts of basic gauging, inspection, elementary statistics, and statistical process control (SPC). Prerequisite: MET104 or MTH112 or higher level math.

## **MFG241 4 credits**

### **Computer Numerical Control Programming – Mill (Haas)**

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. 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. Prerequisites: MTH60 or MTH63 or designated placement test score, and MFG121 and MFG140.

## **MFG242 4 credits**

### **Computer Aided Manufacturing I: Mastercam 2D**

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, the course includes topics such as hardware familiarity, system operation, folders, file types and structure, Mastercam menu structure and system management. 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. Prerequisite: MFG241.

## **MFG243 4 credits**

### **Computer Aided Manufacturing II: Mastercam 3D**

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. Emphasis is on surface creation and mathematical category, applicability, association, Open-GL, shading and curves, C-hooks, terminology and analyzing. All aspects of roughing and finishing machining cycles are covered with focus on safe and correct application and use of parameters. Prerequisite: MFG242.

## **MFG244 3 credits**

### **CNC Programming – Lathe (Haas)**

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. Prerequisites: MET104 or MTH112, and MFG121 and MFG140.

## **MFG255 4 credits**

### **Computer Integrated Manufacturing**

A capstone project class that emphasizes 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. Prerequisite: MFG220.

## **MFG262 3 credits**

### **Lean Manufacturing**

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. Prerequisites: MFG230 and MET104 or MTH112 or higher level math.

## **MFG280 Variable credit**

### **Cooperative Work Experience/ Manufacturing**

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. Prerequisite: Student must be a Manufacturing Technology major and make arrangements with the department prior to enrolling in this course.

## **MFG280S 1 credit**

### **Cooperative Work Experience Seminar/Manufacturing**

Presents an overview of the necessary employment documents to be competitive in the job market. Students will write a basic resume and cover letter, complete an employment application, participate in a mock interview, and develop an understanding of the importance of a professional image and work ethic. Students are expected to have completed most of their coursework toward a certificate or degree program and will be enrolled in CWE concurrently or in the following term. Prerequisites: BA131 or CS120 or CIS120 or documented proficiency, and BT113 or WR115, and permission of CWE instructor or department chair.

## **MFG291 2 credits**

### **Laser Cutting and Engraving Fundamentals**

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. This course is recommended for anyone interested in laser cutting and engraving for industry applications or artwork. Prerequisites: CS120 or CIS120 or documented proficiency, and MTH63 or higher level math.

## **MASSAGE THERAPY**

### **Career and Technical Courses**

## **MT100 3 credits**

### **Massage I – Basic Swedish**

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 benefit of massage will also be covered. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores. Corequisite: BI121 or BI231.

## **MT101 2 credits**

### **Asian Bodywork I**

Introduces fundamental methods and the philosophical background of Asian Bodywork: Acupressure and Shiatsu.

## **MT102 2 credits**

### **Massage II – Swedish Esalen**

Emphasizes assessment, the philosophical and psychological aspects of massage, and working with special populations. Prerequisites: MT100 and BI121 or BI231.

## **MT103 2 credits**

### **Massage III – Swedish**

Prepares students for both the written and practicum examinations for state board licensure. Reflexology, side lying massage, trigger point, deep tissue, and myofascial release techniques will be covered. Prerequisites: MT102 and BI121 or BI231.

## **MT105 3 credits**

### **Massage Therapeutics: Hydrotherapy and Massage for Cancer Patients**

Covers hydrotherapy modalities and education for massaging the elderly and cancer patients. Prerequisite: MT100.

## **MT106 2 credits**

### **Integrated Studies in Massage I – Upper Body**

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. Prerequisites: BI121 or BI231, and MT100 and MT108.



### **MT107 2 credits** **Integrated Studies in Massage II – Lower Body**

Continues the study of applications of massage on specific muscle groups, integrating musculoskeletal anatomy, pathology, acupressure, and basic Swedish massage techniques. Prerequisite: MT106.

### **MT108 4 credits** **Kinesiology for Massage Therapists**

Studies the branch of physiology that relates to the mechanics and anatomy in relation to human movement. Students will learn the joints of the body and their actions, the muscles that create actions, the origins and insertions of muscle attachments, and how to palpate the muscles. Prerequisite: RD90 or WR91 or designated placement test score. Corequisite: BI121 or BI231.

**MT109 4 credits**  
**Pathology for Massage Therapists**  
Provides student with the definitions of syndromes, symptoms, prognostics, treatment concepts and contraindications for massage therapists. Prerequisites: BI121 or BI231; and WR90 or WR91, or designated placement test score. Corequisite(s): BI122, or BI232 and BI233.

**MT111 2 credits**  
**Sport Massage**  
Provides instruction and understanding of sports-related injuries and ailments. Students learn how to prevent injury, improve performance, relieve sore muscles, speed recovery, and reduce stress. Hands on application will be required to demonstrate sports massage techniques. Prerequisites: MT100 and MT108, and BI121 or BI231.

**MT112 2 credits**  
**Massage for Pregnancy and the Infant/Child**  
Provides instruction in full-body massage that can be done in the 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.

**MT113 2 credits**  
**Myofascial Release**  
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.

**MT114 1 credit**  
**Massage Therapy Study Skills Lab**  
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.

**MT115 2 credits**  
**Trigger Point Therapy**  
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.

**MT116 2 credits**  
**Massage Exam Review**  
Prepares students for the Oregon State Board of Massage exams required for licensing by reviewing entire year's worth of study.

**MT117 2 credits**  
**Body Maintenance for Massage Therapists**  
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 receive information that will help protect their own health and better understand their clients' complaints.

**MT118 2 credits**  
**Deep Tissue Massage**  
Provides knowledge and hands-on instruction in the theory of deep-tissue massage, anatomy of muscles and relevant structures, and treatment for pain symptoms throughout the body. Shows how deep tissue massage can provide instant results for patients suffering with pain due to musculoskeletal dysfunctions. Prerequisites: MT108, and BI121 or BI231.

**MT119 2 credits**  
**Introduction to Craniosacral Therapy**  
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.

**MT120A 1 credit**  
**Business for Massage Therapists - Part A**  
Focuses on the concept of professionalism, ethics, boundaries, and the legal issues associated with massage/bodywork therapy. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

**MT120B 2 credits**  
**Business Practices for Massage Therapists – Part B**  
Focuses on business practices, marketing, record keeping, and insurance billing for a massage therapy practice. Prerequisite: WR90 or WR91 or designated placement test score.

**MT121 2 credits**  
**Asian Bodywork II**  
Students will learn the fundamental methods and philosophical background of Ayurveda and Touch 4 Health. Introduces different styles and techniques of acupressure and energy balancing. Prerequisite: MT101.

**MT180 Variable credit**  
**Cooperative Work Experience/ Massage Therapy**  
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.

**MT180S 1 credit**  
**Cooperative Work Experience/ Massage Seminar**  
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. Corequisite: MT180.

**MT199 Variable credit**  
**Selected Topics in Massage**  
Provides knowledge and hands-on instruction in the theory and techniques of new massage topics that have evolved.

## **MATHEMATICS**

### **Lower Division Collegiate** **(except where noted)**

**MTH15A 3 credits**  
**Math Fast Track**  
Offers students the chance to improve math placements 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 in a computer lab using computer software that covers material from MTH20 through MTH95 (depending on the math level at which students enter the class and through which they are trying to complete). 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. Prerequisites: Designated placement test score into MTH20, MTH60 or MTH65. Students should be familiar with computers. Corequisites: Co-enrollment in RD90.

**MTH20 4 credits**  
**Pre-algebra**  
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. Corequisite: RD90 or WR91.

**MTH60 4 credits**  
**Fundamentals of Algebra I**  
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. Prerequisites: MTH20 and RD90 or WR91 or designated placement test scores.

### **MTH60R 1 credit** **Fundamentals of Algebra I** **Recitation**

Designed for students currently enrolled in MTH60, this optional course provides additional help with the material presented in MTH60, 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. Prerequisite: MTH20 or designated placement test score. Corequisite: MTH60.

### **MTH63 4 credits** **Applied Algebra I**

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. Course is graded on a pass/no pass basis. Course does not transfer. Prerequisites: MTH20 and RD90 or WR91 or designated placement test scores. A scientific calculator is required.

### **MTH64 2 credits** **Pharmacy Calculations**

Teaches the calculations involved in the preparation and administration of pharmacological products. Topics include converting measurements, dosage calculations, dilutions, concentrations, dimensional analysis, flow duration, volume per hour, drip rates, and TPN milliequivalents. Course does not transfer. Prerequisites: MTH60 or MTH63 or designated placement test scores, and acceptance into the Pharmacy Technician program.

### **MTH65 4 credits** **Fundamentals of Algebra II**

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. Prerequisite: MTH60 or designated placement test score.

### **MTH65R 1 credit** **Fundamentals of Algebra II** **Recitation**

Designed for students currently enrolled in MTH65, this optional course provides more help with the material presented in MTH65, 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. Prerequisite: MTH60 or designated placement test score. Corequisite: MTH65.

### **MTH95 4 credits** **Intermediate Algebra**

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. Prerequisite: MTH65 or designated placement test score.

### **MTH95R 1 credit** **Intermediate Algebra** **Recitation**

Designed for students currently enrolled in MTH95, this optional course provides more help with the material presented in MTH95, 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. Prerequisite: MTH65 or designated placement test score. Corequisite: MTH95

### **MTH96 4 credits** **Applied Algebra II**

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 is graded A through F. Course does not transfer. Prerequisite: MTH60 or MTH63 or designated placement test score. A TI-83 or TI-84 graphing calculator is required.

### **MTH105 4 credits** **Introduction to Contemporary** **Mathematics**

Designed as a transfer mathematics course for students not majoring in science, mathematics, engineering, and other majors requiring significant amounts of algebra. Topics include logic and reasoning, problem solving, geometry, math of finance, counting theory, probability, and statistics. Course is graded A through F. Prerequisite: MTH95 or MTH96 or designated placement test score. A scientific or graphing calculator is required (instructor will be using the TI-83 or TI-84 graphing calculator in class). There is a significant online component in this class.

### **MTH111 4 credits** **College Algebra**

First course in the transfer mathematics sequence for science, mathematics, and engineering students, and for general education math credit. Topics include: polynomial and rational functions, exponential and logarithmic functions, systems of equations and conic sections. Prerequisite: MTH95 or designated placement test score. A graphing calculator is required (instructor will be using the TI-83 or TI-84 graphing calculator in class). There is a significant online component in this class.

### **MTH111R 1 credit** **College Algebra** **Recitation**

This is an optional course taken concurrently with MTH111. It is for those students who want more help with the material of MTH111. MTH111R covers a review of MTH95 material, using the graphing calculator, and topics and concepts of particular difficulty presented in the

MTH111 class. Course is graded on a pass/no pass basis. Prerequisites: MTH95 or designated placement test score. Corequisite: MTH111.

### **MTH112 4 credits** **Elementary Functions**

Second course in the transfer mathematics sequence for science, mathematics, and engineering students, and for general education math credit. Course topics include: radian and degree measures of angles, right triangle and circle trigonometry, identities, graphing and solving trigonometric equations, law of sines and cosines, vectors and parametric equations. Prerequisite: MTH95 or designated placement test score. A graphing calculator is required (instructor will be using the TI-83 or TI-84 graphing calculator in class). There is a significant online component in this class. Corequisite: MTH111.

### **MTH112R 1 credit** **Elementary Functions** **Recitation**

This is an optional course taken concurrently with MTH112. It is for those students who want more help with the material of MTH112. Covers a review of MTH95 material, using the graphing calculator, and topics and concepts of particular difficulty presented in the Elementary Functions class. Course is graded on a pass/no pass basis. Prerequisite: MTH95 or designated placement test score. Corequisite: MTH112

### **MTH199 1 to 4 credits** **Special Studies in Mathematics**

Presents special topics of study in mathematics through workshop, seminar, research, and/or independent study formats. Content varies according to department needs and student demand.

### **MTH211 5 credits** **Fundamentals of Elementary Math** **I w/Lab**

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 is graded A through F. Prerequisite: MTH95 or designated placement test score. A scientific calculator is required. There is a significant online component in this class.

### **MTH212 5 credits** **Fundamentals of Elementary Math** **II w/Lab**

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 is graded A through F. Prerequisite: MTH211. A scientific calculator is required. There is a significant online component in this class.

### **MTH213 5 credits** **Fundamentals of Elementary Math** **III w/Lab**

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 is graded



A through F. Prerequisite: MTH95 or designated placement test score. A scientific calculator is required. There is a significant online component in this class.

### **MTH243 4 credits**

#### **Probability and Statistics w/Lab**

Covers the nature and presentation of data, measures of central tendency, probability and probability distributions, normal and binomial distributions, estimates, sample sizes, confidence intervals and hypothesis testing. Course is graded A through F. A graphing calculator is required (instructor will be using the TI-83 or TI-84 graphing calculator in class). There is a significant online component in this class. Prerequisite: MTH95 or MTH96 or designated placement test score.

### **MTH244 4 credits**

#### **Inferential Statistics**

Builds on the basic knowledge and skills learned in MTH243 and utilizes spreadsheet skills gained in CS125SS/CIS125SS. Students will use Excel extensively to solve statistical problem. Emphasis is on the understanding and application of hypothesis testing, analysis of variance (ANOVA), correlation and regression, and Chi-square techniques. Designed to provide students with analytical skills they will need in upper-division business courses including accounting, finance, operations management and applied research. Course is graded A through F. Course is Dual numbered as BA282. Prerequisites: CS120 or CIS120 or documented proficiency, or BA131. CS125SS/CIS125SS or BA285 is also recommended.

### **MTH251 5 credits**

#### **Calculus I (Differential) w/Lab**

First course in the calculus sequence for science, mathematics, and engineering students. Topics include limits, differentiation, extrema, related rates, optimization problems, and other basic applications of differentiation. Course is graded A through F. Prerequisites: MTH111 and MTH112 or designated placement test scores. A computer lab is required. A graphing calculator is also required (the TI-83 or TI-84 graphing calculator is recommended). There is a significant online component in this class.

### **MTH252 5 credits**

#### **Calculus II (Integral) w/Lab**

The second course in the traditional calculus sequence for science, mathematics, and engineering students. Topics include integration, integration techniques, applications of integration, and improper integrals. Course is graded A through F. Prerequisite: MTH251. A computer lab is required. A graphing calculator is also required (the TI-83 or TI-84 graphing calculator is recommended). There is a significant online component in this class.

### **MTH253 5 credits**

#### **Calculus III w/Lab**

The third course in the calculus sequence for science, mathematics, and engineering students. Includes infinite series, conic sections, plane curves, parametric equations, polar coordinates, vectors, and vector-valued functions. There is a significant online component in this class. Course is graded A through F. Prerequisite: MTH252. A computer lab is required. A graphing calculator is also required (the TI-83 or TI-84 graphing calculator is recommended). There is a significant online component in this class.

### **MTH254 5 credits**

#### **Vector Calculus w/Lab**

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 is graded A through F. Prerequisite: MTH253. A computer lab is required. A graphing calculator is also required (the TI-83 or TI-84 graphing calculator is recommended). There is a significant online component in this class.

### **MTH256 5 credits**

#### **Differential Equations w/Lab**

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 computer lab is required. Prerequisite: MTH253. A graphing calculator is also required (the TI-83 or TI-84 graphing calculator is recommended).

### **MTH261 5 credits**

#### **Linear Algebra w/Lab**

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 is graded A through F. Prerequisite: MTH252. A computer lab is required. A graphing calculator is also required (the TI-83 or TI-84 graphing calculator is recommended).

### **MTH280 Variable credit**

#### **Cooperative Work Experience/ Mathematics**

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 Prerequisite: Student must make arrangements with the department prior to enrolling in this course.

## **MECHANICAL ENGINEERING TECHNOLOGY**

### **Career and Technical Courses**

#### **MET101 3 credits**

##### **Mechanical Drafting**

Introduces manual mechanical drafting techniques. Focuses on drawing layout, dimensioning standards, and sectional views through a series of practical problems. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

#### **MET104 3 credits**

##### **Applied Shop Practices**

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. Prerequisites: MTH63 or MTH60 or designated placement test scores.

#### **MET105 3 credits**

##### **Blueprint Reading - Mechanical**

Introduces 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 WLD104. Prerequisites: MTH20 and RD90 or WR91 or designated placement test scores. MTH63 is recommended.

#### **MET111 3 credits**

##### **Computer Aided Drafting I:**

##### **Mechanical (Autodesk Inventor)**

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. Prerequisite: CS120 or CIS120 or documented proficiency. Corequisites: MET101 and MET105 highly recommended.

#### **MET112 3 credits**

##### **Computer Aided Drafting II:**

##### **Mechanical (Autodesk Inventor)**

Introduces students to advanced concepts of computer aided design (CAD) and drafting. These include but are not limited to advanced commands, thread creation, surfaces, advanced work planes, and stress analysis (FEA). Working in both two- and three-dimensions as well as in solids, students will learn the operating system, Inventor CAD environment, advanced tools and symbol library of an industry standard, computer aided design and drafting system. Prerequisite: MET111. Corequisites: MET101 and MET105 highly recommended.

#### **MET113 3 credits**

##### **Computer Aided Drafting III:**

##### **Mechanical (Autodesk Inventor)**

Covers advanced techniques used in creating and modifying parametric, assembly-centric 3D models with Inventor. Exercises in this course develop extensive knowledge in the areas of part and assembly modeling, adaptive features, utilizing work groups, surfacing, managing data and the Engineer's Notebook. Exercises will include but are not limited to advanced commands and surfaces, advanced work planes, and advanced stress analysis (FEA). Working in both two- and three-dimensions as well as in solids, students will learn advanced multiple drawing and modification commands, create advanced three-dimensional solid models and assemblies, and apply industry standards in the preparation of technical mechanical drawings. Prerequisites: MET111 and MET112.



### **MET121 3 credits**

#### **Computer Aided Drafting I: Mechanical (SolidWorks)**

The 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. Prerequisite: CS120 or CIS120 or documented proficiency. Corequisites: MET101 and MET105 highly recommended.

### **MET122 3 credits**

#### **Computer Aided Drafting II: Mechanical (SolidWorks)**

The second of 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. Students have the opportunity to take SolidWorks CSWA (Certified SolidWorks Associate) exam at end of this term. Prerequisite: MET121.

### **MET123 3 credits**

#### **Computer Aided Drafting III: Mechanical (SolidWorks)**

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 MET121 and MET122 to reverse engineer an advanced part/project, creating solid models and modifying those models as needed, 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 opportunity to take the SolidWorks CSWA (Certified SolidWorks Associate) exam at the end of the term. Prerequisite: MET122.

### **MET160 3 credits**

#### **Materials and Metallurgy**

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. Prerequisites: MTH20 and RD90 or WR91, or designated placement test scores. MFG101 is recommended.

## **MUSIC**

### **Lower Division Collegiate**

### **MUS101 3 credits**

#### **Music Fundamentals I**

Focuses on reading and writing basic music notation. Includes note names, scales, key signatures, overtone series, intervals, basic rhythms and meters, spelling triads and seventh chords, and basic ear training skills. Prerequisite: RD90 or WR91, or designated placement test score.

### **MUS105 3 credits**

#### **Music Appreciation**

Introduces the history and repertory of 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 Western music. Prerequisite: WR115 or designated placement test score.

### **MUS108 4 credits**

#### **Music in World Cultures**

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. Prerequisite: WR115 or designated placement test score.

### **MUS111 4 credits**

#### **Music Theory and Aural Skills I**

Examines the fundamentals of tonal music including the overtone series, major and minor scales, keys, intervals, spelling triads and seventh chords, and harmonic analysis. Includes ear training (dictation) and sight-singing skills using diatonic melodies in major keys in simple meter. Introduces solfège as a tool for sight singing. Prerequisites: WR115 or designated placement test score, and MUS101.

### **MUS112 4 credits**

#### **Music Theory and Aural Skills II**

Continues the examination of tonal music including harmonic analysis in a key/tonal context, harmonic progressions, realizing a figured bass, and part-writing procedures using a figured bass and soprano line. Continues dictation and sight-singing skills using diatonic melodies, dyads, and harmonies in major and minor keys using simple and compound meter. Prerequisites: WR115 or designated placement test score, and MUS111.

### **MUS113 4 credits**

#### **Music Theory and Aural Skills III**

Continues the examination of tonal music including harmonic analysis in a key/tonal context, harmonic progressions, part-writing procedures, and realizing more advanced figured bass lines. Continues dictation and sight-singing skills using diatonic and chromatic melodies, dyads, and harmonies in major and minor keys. Prerequisites: WR115 or designated placement test score, and MUS112.

### **MUS131 2 credits**

#### **Class Piano**

Offers elementary instruction covering the principles of piano playing to fit the needs of beginners in a class setting. A piano or keyboard is needed for practice. May be repeated for up to 6 credits.

### **MUS135 2 credits**

#### **Beginning Hand Drums**

Provides students hands-on experience with a variety of hand percussion instruments from around the world. Students will learn basic techniques and rhythms to facilitate musical performance in a group setting. May be repeated up to four credits.

### **MUS137 2 credits**

#### **Group Guitar – Beginning**

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 4 credits.

### **MUS138 2 credits**

#### **Group Guitar – Intermediate**

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 6 credits. Prerequisite: MUS137.

### **MUS199 Variable credit**

#### **Special Studies: Music**

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 6 credits. Prerequisite: WR115 or designated placement test score.

### **MUS201 4 credits**

#### **Introduction to Western Music**

Studies styles and historical contexts of music from antiquity to the present. No musical background is required. Prerequisite: WR115 or designated placement test score.

### **MUS205 3 credits**

#### **History of Jazz**

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 listening and comprehension skills through listening to jazz, in-class discussion of the music, class assignments, research, and reading of the text. Prerequisite: WR115 or designated placement test score.

### **MUS206 3 credits**

#### **Introduction to Rock Music**

Surveys rock music from its origins to the present as revealed through the study of the most innovative and influential artists of this American musical form. Emphasis is placed on building listening and comprehension skills through listening to rock, in-class discussion of the music, class assignments, research, and reading of the text. Prerequisite: WR115 or designated placement test score.



### **MUS207 3 credits**

#### **Songwriting**

Studies examples of songwriting techniques used and recommended by successful songwriters. Students will compose original songs for peer and instructor review. Prerequisite: WR115 or designated placement test score.

### **MUS208 3 credits**

#### **Film Music**

Explores the capacity of music to enhance drama and affect our emotions in the medium of film and looks at different ways music has been used in film since the birth of cinema to the present. The course is 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. Course contains an online component. No prior knowledge of music or film history is necessary. Prerequisite: WR115 or designated placement test score.

### **MUS211 4 credits**

#### **Music Theory and Aural Skills IV**

Continues MUS111, 112 and 113. Offers students a clear and thorough introduction to the resources and practice of Western music with a focus on chromatic harmony as used in the common practice period through the 21st century. Students will realize four parts from a chromatic figured bass and analyze more advanced chord progressions, cadences, phrases and forms as used in the music of the masters. Students will also analyze various atonal styles of music. More advanced (chromatic) sight-singing and dictation exercises along with conducting exercises will be used. Prerequisite: MUS113 or equivalent knowledge.

### **MUS212 4 credits**

#### **Music Theory and Aural Skills V**

Offers students a clear and thorough introduction to the resources and practice of Western music with a focus on chromatic harmony as used in the common practice period through the 21st century. Students will realize four parts from a chromatic figured bass and analyze more advanced chord progressions, cadences, phrases and forms as used in the music of the masters. Students will also analyze various atonal styles of music. More advanced (chromatic) sight-singing and dictation exercises along with conducting exercises will be used. Prerequisite: MUS211 or equivalent knowledge.

### **MUS213 4 credits**

#### **Music Theory and Aural Skills VI**

Offers students a clear and thorough introduction to the resources and practice of Western music with a focus on chromatic harmony as used in the common practice period through the 21st century. Students will realize four parts from a chromatic figured bass and analyze more advanced chord progressions, cadences, phrases and forms as used in the music of the masters. Students will also analyze various atonal styles of music. More advanced (chromatic) sight-singing and dictation exercises along with conducting exercises will be used. Prerequisite: MUS212 or equivalent knowledge.

### **MUS261 4 credits**

#### **History of Western Music I: Ancient to Baroque**

Primarily for music majors, studies development of Western musical styles from antiquity through the Middle Ages, Renaissance and Baroque, to become familiar with the wide range of cultural diversity within the Western tra-

dition. Prerequisites: WR115 or designated placement test score, and MUS101.

### **MUS262 4 credits**

#### **History of Western Music II: Classical and Romantic**

Primarily for music majors, studies development of Western musical styles from both the Classical and Romantic periods to become familiar with the wide range of cultural diversity within the Western tradition. Prerequisites: WR115 or designated placement test score, and MUS101.

### **MUS263 4 credits**

#### **History of Western Music III: 20th Century to Modern Day**

Primarily for music majors, studies development of Western musical styles from antiquity through the Late Romantic, Modern periods, and present day to become familiar with the wide range of cultural diversity within the Western tradition. Prerequisites: WR115 or designated placement test score, and MUS101.

### **MUS264 3 credits**

#### **History of Rock I: The Roots of Rock**

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. Prerequisite: WR115 or designated placement test score.

### **MUS265 3 credits**

#### **History of Rock II: Rock's Golden Age**

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. Prerequisite: WR115 or designated placement test score.

### **MUS266 3 credits**

#### **History of Rock III: Heavy Metal to Hip-Hop**

Provides an opportunity to explore 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. Prerequisite: WR115 or designated placement test score.

## **NURSING**

### **Lower Division Collegiate\***

### **NRS110,NRS110C 9 credits**

#### **Foundations of Nursing – Health Promotion**

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. Prerequisites: Completion of all prerequisite/preparatory courses (45 credits minimum) and formal acceptance into the RCC AAS Nursing program. This is a limited-entry program.

### **NRS111,NRS111C 6 credits**

#### **Foundations of Nursing in Chronic Illness I**

Introduces assessment and common interventions (including technical procedures) for patients with chronic illnesses common across the life span in multiple ethnic groups. The patient's 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. Prerequisites: NRS110, NRS112, NRS230, NRS232; NRS231 and NRS 233 taken concurrently.

### **NRS112,NRS112C 6 credits**

#### **Foundations of Nursing in Acute Care I**

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. Prerequisites: NRS110 and NRS110C; NRS230 and NRS232 taken concurrently.

### **NRS115,NRS115C 6 credits**

#### **LPN Transition to OCNE**

Introduces the learner to the framework of the RCC and Oregon Consortium for Nursing Education (OCNE) curriculum including the OCNE competencies and benchmarks and the clinical judgment model. The student is introduced to the role and practice of the registered nurse. Concepts and applicability of the ANA Code of Ethics will be emphasized. Students will be introduced to evidenced-based care including levels of evidence. Concepts of health promotion, chronic care and acute care as applied to nursing practice will be explored. Case studies, concept-based learning activities, and patient care activities will be used to provide students opportunities to demonstrate critical thinking in the provision of simulated and actual patient care. The course will be delivered through a variety of



methods, e.g. face to face classroom and seminar, skills lab, high fidelity simulation, and hospital clinical experiences. Participation in weekly NRS115 seminar sessions and all scheduled NRS115C clinical experiences (including required preparation for clinical care) will typically require a five day per week time commitment. Clinical is graded on a P/NP basis. Prerequisites: NRS230, NRS232, and full acceptance to the RCC Nursing program. This course is only for LPNs accepted into the advanced placement process.

### **NRS221,NRS221C 9 credits** **Nursing in Chronic Illness II and End-of-Life**

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. Prerequisites: NRS110, NRS111, NRS112, NRS230, NRS231, NRS232 and NRS233.

### **NRS222,NRS222C 9 credits** **Nursing in Acute Care II and End-of-Life**

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. Prerequisites: NRS221 and NRS221C.

### **NRS224,NRS224C 9 credits** **Integrative Practicum**

This course is designed to formalize the clinical judgments, knowledge and skills necessary in safe, registered nurse practice. The faculty/clinical teaching associate/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. Prerequisites: NRS221, NRS221C, NRS222 and NRS222C

### **NRS230 3 credits** **Clinical Pharmacology I**

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, non-opioid analgesics, and antibiotics, as well as additional classes of drugs. 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. Prerequisites: BI234 and NRS110.

### **NRS231 3 credits** **Clinical Pharmacology II**

This sequel to NRS230 Clinical Pharmacology I 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 (e.g. antidiabetics, antineoplastics, immune related, musculoskeletal, psychotropics, herbals, gastrointestinal drugs, antivirals, antihyperlipidemics, diuretics). Prerequisite: NRS230.

### **NRS232 3 credits** **Pathophysiological Processes I**

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. Prerequisites: BI234 and NRS110.

### **NRS233 3 credits** **Pathophysiological Processes II**

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 (e.g. endocrine disorders, neoplasms, acid-base disturbances, neurological, immune and autoimmune disorders and alterations in the neurological, gastrointestinal, musculoskeletal, and renal systems). Prerequisite: NRS232.

### **NUR100 1 credit** **Scope of Practice and Safety Considerations**

Covers the review and practice of safety concepts, nursing skills, and knowledge needed to care for individuals across the life span as previously learned in the program. The returning student is expected to demonstrate a level of preparedness which reflects independent review, study and groundwork. There will be individualized instruction, practice and evaluation of student performance of specific nursing skills in a laboratory setting. Prerequisite: All required courses prior to term of re-admission to the Practical Nursing or Nursing Programs. This course is only for students re-admitted to one of the above programs within one year of previously leaving the program.

\*Course is Career Technical Education.

## **NUTRITION**

### **Lower Division Collegiate**

### **NFM225 4 credits** **Nutrition**

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. Prerequisite: RD90 or WR91 or designated placement test score. CHEM104 and BI211 are also recommended.

## **OUTDOOR ADVENTURE LEADERSHIP**

### **Lower Division Collegiate**

### **OAL150 2 credits** **Outdoor Living Skills**

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. Prerequisites: BT113 or WR115 or designated placement test scores, and the ability to walk with a backpack containing personal gear.



## **OAL223 2 credits**

### **Wilderness Navigation**

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. Prerequisite: BT113 or WR115 or designated placement test scores.

## **OAL250 3 credits**

### **Foundations of Outdoor Adventure and Leadership**

Introduces students to the history, philosophy, and styles in outdoor adventure leadership in contemporary society, with application to current trends and prospects for the future. Allows students to develop knowledge and a personal style of effective leadership and communication. Prerequisite: BT113 or WR115 or designated placement test scores.

## **PHARMACY TECHNICIAN**

### **Career and Technical Courses**

## **PRX101 4 credits**

### **Pharmacy Technician I**

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. Prerequisite: Acceptance into the Pharmacy Technician program.

## **PRX102 4 credits**

### **Pharmacy Technician II**

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. Prerequisite: PRX101.

## **PRX123 2 credits**

### **Legal and Ethical Issues for Pharmacy Technicians**

Exposes the student to variety of legal and ethical dilemmas, helping students become more prudent and confident pharmacy technicians. 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. Prerequisite: Acceptance into the Pharmacy Technician program.

## **PRX170 3 credits**

### **Pharmacy Technician Practicum and Seminar**

Provides hands-on clinical experience. Students work an average of nine hours per week 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 – an orientation seminar to discuss expectations for the term; a mid-term seminar to discuss current activities and exchange details on experiences; and a concluding seminar to reflect on work experiences. Seminars are attended and moderated by an instructor, who uses the feedback gained to evaluate current practicum experiences and improve future practicum experiences. Prerequisites: Acceptance into the Pharmacy Technician program and successful completion of all first term courses.

## **PHILOSOPHY**

### **Lower Division Collegiate**

## **PHL101 4 credits**

### **Philosophical Problems**

Introduces basic questions of philosophy and some of the persistent philosophical problems. Students will explore some of the traditional solutions and given a base to provide their own sets of answers. Prerequisite: WR115 or designated placement test score.

## **PHL102 4 credits**

### **Ethics**

Develops the idea of humans as moral agents; provides critical consideration of various interpretations of the ideals and standards of moral conduct. Prerequisite: WR115 or designated placement test score.

## **PHL103 4 credits**

### **Critical Reasoning**

Introduces the study of reasoning including the ability to recognize, analyze, criticize, and construct the main types of argument and proof. Prerequisite: WR115 or designated placement test score.

## **PHL199 Variable credit**

### **Special Studies: Philosophy**

Explores major ideas and belief systems of the world and the extent to which individual values are shaped by cultures. Prerequisite: WR115 or designated placement test score.

## **PHYSICAL EDUCATION**

### **Lower Division Collegiate**

## **PE184 1 credit**

### **Adaptive Physical Education**

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. Prerequisite: BT113 or WR115 or designated placement test scores.

## **PE185 1 credit**

### **Physical Education**

Offers fitness and recreational activities in areas such as martial arts, physical fitness and conditioning, weight training, dance, aquatics, outdoor recreation sports, and individual, dual, and team sports.

## **PE185BA 1 credit**

### **Backpacking**

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.

## **PE185CC 1 credit**

### **Snow Skiing/Snowboarding**

Teaches 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. Prerequisite: Students must be able to minimally perform the requisite physical activities defined by the course.

## **PE185D 1 credit**

### **Physical Conditioning/Weight Training**

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 schedule 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 schedule to "flex" around individual performance level and student goals. Prerequisite: Students must be able to minimally perform the requisite physical activities defined by the course.

## **PE185E 1 credit**

### **Yoga**

Yoga 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 and improving health. Students of all ability levels are welcome.

## **PE185F 1 credit**

### **Karate**

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 com-



bative skills will be introduced. Prerequisite: Students must be able to minimally perform the requisite physical activities defined by the course.

### **PE185HA 1 credit**

#### **Hiking Oregon**

Teaches the necessary skills for hiking like pre-trip planning, orienteering, traveling as a group, wilderness ethics and safety. Course topics include plants, animals, animal track identification, map and compass lessons, geocaching GPS activities, and basic preventative first aid such as hydration and foot care. Prerequisite: Students must be able to minimally perform the requisite physical activity throughout the class.

### **PE185J 1 credit**

#### **Pilates**

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 corners" 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.

### **PE185K 1 credit**

#### **Core and Cardio**

Offers a variety of methods to achieve a stronger core and greater cardiac performance. Step aerobics, weighted workout, kick boxing, circuit training, and interval training -- all set to music -- are used to strengthen and increase metabolism, heart circulation, and lung capacity. Stretching; mat work; use of balls, weights and exercise bands to tone, strengthen, and develop the core; will also be used. Short discussions 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.

### **PE185L 1 credit**

#### **Lap Swimming**

Fosters the development of cardiovascular health and increased strength and flexibility through aquatic and strength exercises. Emphasizes overall fitness and encourages students to swim and train at their own pace. 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 to discuss class procedures and goals. Prerequisite: Sufficient physical ability to swim and/or move in a pool environment.

### **PE185M 1 credit**

#### **Multi-level Aerobics**

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.

### **PE185N 1 credit**

#### **Circuit Fitness Training**

Provides students the opportunity to develop individual cardiovascular fitness, flexibility, and muscular strength and endurance through a range of group exercise activities. Circuit activities will rotate on a regular schedule. 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.

### **PE185Q 1 credit**

#### **Aquatics for Personal Trainers**

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, specifically the American Council on Exercise Personal Trainer. Prerequisites: PE185D and PE194.

### **PE185R 1 credit**

#### **Beginning Rock Climbing**

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 team work. The course will include several venues and a field trip for successful completion of the course.

### **PE185RC 1 credit**

#### **Rock Climbing Adventure**

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. There will be a three-day, two-night climbing expedition. Prerequisite: PE185R or climbing experience.

### **PE185RR 1 credit**

#### **River Rafting Adventure**

Provides a unique outdoor adventure rafting various parts of the Rogue River based on the ACA's Essentials of Rafting Curriculum Levels 1-3. The course is designed to heighten 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 the river by using good judgment and organization, river reading, considering safety considerations, and many paddling and rowing techniques.

### **PE185S 1 credit**

#### **Surfing**

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.

### **PE185SC 1 credit**

#### **Open Water SCUBA Diving**

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.

### **PE185SD 1 credit**

#### **Self Defense for Women**

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.

### **PE185SK 1 credit**

#### **Sea Kayaking the Oregon Coast**

Offers kayakers a unique 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 enjoyment of paddling in the ocean 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.

### **PE185SS 1 credit**

#### **Step and Stuff**

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.

### **PE185T 1 credit**

#### **Functional Fitness and TRX**

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, and stability balls are among the activities and equipment included.

### **PE185TC 1 credit**

#### **Tai Chi**

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. Prerequisite: Ability to engage in specific movement patterns.

### **PE185W 1 credit**

#### **Winter Survival and Snow Camping**

Provides training and practical application of learning to deal with the extremes of winter and camping in the snow. Covers the many inherent challenges posed by the winter environment.

### **PE185WK 1 credit**

#### **Whitewater Kayaking**

Offers river runners a unique 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 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. Includes the basic elements of river reading, safety considerations, paddling techniques, and learning the skills required to efficiently maneuver a kayak on rivers with Class I-II rapids.

### **PE185WW 1 credit**

#### **Women and Weights**

Focuses on empowering women and men with the basics of weight training and various modes of fitness, with a special focus on the physiology of the woman's body. The benefits of safe, effective, and progressive strength training will be emphasized. Topics in the course will include enhanced strength, muscle tone, increased metabolism, enhanced energy levels and reduction of depression symptoms.

### **PE185Z 1 credit**

#### **Zumba®**

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 pace.

### **PE185ZL 1 credit**

#### **Zip Line Guide Technical Skills**

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 offered over two weekends. Participation in all aspects of the orientation and trip are necessary to successfully complete the course.

### **PE194 2 credits**

#### **Principles of Exercise Training and Conditioning**

Provides students with a solid foundation in the essentials of exercise science that apply to exercise programs of conditioning and resistance training. The core topics covered will be basic exercise physiology, biomechanics and applied kinesiology, nutrition and exercise performance, human anatomy, flexibility, functional assessments, client screening and injury prevention. Much of the course will be in the weight room setting. The American College of Sports Medicine (ACSM) text will be used to prepare students for pursuing a career in fitness training, coaching, personal training or continuing on to a four-year college. Students will receive both content knowledge through lecture and dialogue, and practical experience to prepare them to understand the principles of exercise training and fitness conditioning. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores. BI121 or BI231 are also recommended. Corequisite: PE185D

### **PE199 Variable credit**

#### **Special Studies: Physical Education**

Offers selected topics of study in physical education through workshop and field study format.

### **PE264 2 credits**

#### **Fundamentals of Personal Training**

Provides students with a solid foundation in the basic principles and techniques for becoming a personal trainer. Covers physical fitness assessments including cardiovascular endurance, weight conditioning and strength training program design, joint flexibility, body composition, and other systems of conditioning. The core topics covered will be client screening, testing and evaluation, informed consent, data interpretation, exercise prescription, load training, flexibility, and advanced training for the apparently healthy population. Special populations of physically challenged, pregnant and postpartum women, and mature adults will also be topics of discussion. The American College of Sports Medicine texts will be used to prepare students for pursuing a nationally recognized personal trainer certification. Students will receive both content knowledge through lecture and dialogue, and practical experience in the weight room and health assessment settings to understand the fundamentals of fitness assessment and exercise prescription. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores, and PE185D and PE194.

### **PE280 Variable credit**

#### **Cooperative Work Experience/Physical Education**

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. Prerequisite:

PE194; student must be a Health/Physical Education and Recreation major, and make arrangements with the department prior to enrolling in this course. Corequisites: PE264 or HE259.

### **PE290 2 credits**

#### **Fitness Instructor**

Trains students in the skills needed to conduct a variety of group exercise classes. Course content includes the practical application of cardiovascular and neuromuscular exercise science, leadership and teaching skills, behavior modification and motivation, choreography and pattern development, class structure and components, and practical sessions. Course prepares students for the option of pursuing an American Council on Exercise, Group Fitness Instructor certification. RCC is a national testing center for the American Council on Exercise allowing students to easy access to the comprehensive exam. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **PE291 2 credits**

#### **Red Cross Lifeguard Training**

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. Prerequisites: Must be at least 16 years old and meet strong swimmer requirements. Prerequisites: Minimum 16 years of age and ability to pass swimming tests (freestyle, side stroke, and breast stroke).

## **PHYSICS**

### **Lower Division Collegiate**

### **PH201 5 credits**

#### **General Physics I w/Lab and Recitation**

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, laboratory and recitation sections. All three sections are required for this class. Prerequisites: MTH111, and BT113 or WR115 or designated placement test scores. Corequisite: MTH112.

### **PH202 5 credits**

#### **General Physics II w/Lab and Recitation**

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, laboratory and recitation sections. All three sections are required for this class. Prerequisite: PH201.



### **PH203 5 credits**

#### **General Physics III w/Lab and Recitation**

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, laboratory and recitation sections. All three sections are required for this class. Prerequisite: PH202.

### **PH211 5 credits**

#### **General Physics (Calculus Based) I w/Lab and Recitation**

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, laboratory and recitation sections. All three sections are required for this class. Prerequisites: MTH112, and BT113 or WR115 or designated placement test scores. Corequisite: MTH251.

### **PH212 5 credits**

#### **General Physics (Calculus Based) II w/Lab and Recitation**

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, laboratory and recitation sections. All three sections are required for this class. Prerequisite: PH211. Corequisite: MTH252.

### **PH213 5 credits**

#### **General Physics (Calculus Based) III w/Lab and Recitation**

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, laboratory and recitation sections. All three sections are required for this class. Prerequisite: PH212.

## **POLITICAL SCIENCE**

### **Lower Division Collegiate**

#### **PS199 Variable credit**

##### **Special Studies: Political Science**

Explores special topics in political science using a seminar format.

### **PS201,202,203 3 credits each**

#### **U. S. Government I, II, III**

PS201 provides a general investigation of the socio-political processes in the United States and includes an historical overview of American democracy and political culture, the Constitution and the road to ratification, federalism, civil liberties, and people and politics. PS202 examines the concepts and principles of the American political system including federal, state, and local government structures, and other related systems. PS203 is a general survey/overview of the political process at the state and local level with an emphasis on Oregon law, constitution, and current local political issues. Courses need not be taken in sequence. Prerequisite: BT113 or WR115 or designated placement test score.

### **PS280 Variable credit**

#### **Cooperative Work Experience/ Political Science**

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. Prerequisite: Student must make arrangements with department prior to enrolling in this course.

## **PRACTICAL NURSING**

### **Career and Technical Courses**

#### **PN101,PN101C 11 credits**

##### **Practical Nursing I**

Covers the practical nurse's contributions to the nursing process and legal and ethical issues within the PN scope of practice. Practical nursing skills, pharmacology and medication administration, communication skills, growth and development across the life span, and selected medical-surgical content are covered. Clinical application occurs in the skills lab and a long-term care setting. Skills lab/clinical course is graded on a pass/no pass basis. Course does not transfer. Prerequisites: MTH65 or higher level math, OSBN CNA certification, BI121 and BI122 with lab (or BI231, BI232 and BI233 with labs) within 7 years, CPR, CS120 or documented computer proficiency, WR121, and acceptance into the Practical Nursing program (see the catalog for detailed information).

#### **PN102,PN102C 12 credits**

##### **Practical Nursing II**

Continues application of the nursing process and practical nursing scope of practice to content in selected medical-surgical areas including perioperative, cardiovascular, endocrine, respiratory, mental health, and gastrointestinal disorders. 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 lifespan. Nursing care provided by the student in clinical situations takes place in long-term care and in the acute-care medical/surgical and perioperative

settings, with selected specialty experiences. Clinical course is graded on a pass/no pass basis. Course does not transfer. Prerequisites: PN101 and PN101C.

### **PN103,PN103C 12 credits**

#### **Practical Nursing III**

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 does not transfer. Prerequisites: PSY101 or BT101, PN102, and PN102C.

### **PN104C 2 credits**

#### **Practical Nursing Leadership Clinical**

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. Prerequisites: PN103 and PN103C.

## **PSYCHOLOGY**

### **Lower Division Collegiate**

#### **PSY101 3 credits**

##### **Psychology of Human Relations**

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. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

#### **PSY119 4 credits**

##### **Psychology of Personal Growth**

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. Prerequisite: BT113 or WR115 or designated placement test score.



### **PSY199 Variable credit** **Special Studies: Psychology**

Presents special topics of study in psychology through workshop, seminar, research, and/or independent study formats. Content varies according to department needs and demand.

### **PSY201 4 credits** **General Psychology I**

Provides students with the foundational knowledge required for further study in the field of psychology. It is designed to help students gain a historical perspective of the field of psychology; an understanding of the scientific method applied to human behavior, and knowledge of the physiology of human behavior including the brain functions, sensations and perception process. The course also explores states of consciousness, memory, learning theory, cognition, language and creativity, motivation, emotion and stress, and provides training in the application of study skills, critical thinking, and cross-cultural awareness. Prerequisite: BT113 or WR115 or designated placement test score.

### **PSY202 4 credits** **General Psychology II**

Continues the overview of the general psychology curriculum begun in PSY201 and prepares students for continued study in more advanced psychology classes. This course is designed to help students gain an understanding of human development including personality testing, personality development and intelligence; psychopathology and current methods of treating psychopathology; social psychology; and human sexuality and gender development. PSY202 also provides training in the application of study skills, critical thinking, and cross-cultural awareness. Prerequisite: BT113 or WR115 or designated placement test score. PSY201 is also recommended.

### **PSY215 4 credits** **Life Span Human Development**

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. Prerequisite: BT113 or WR115 or designated placement test score. Corequisite: PSY201.

### **PSY219 4 credits** **Introduction to Abnormal Psychology**

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. Prerequisite: BT113 or WR115 or designated placement test score, and PSY201. Corequisites: PSY202.

### **PSY228 4 credits** **Introduction to Positive Psychology**

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. Prerequisite: BT114 or WR121 or designated placement test score.

### **PSY231 3 credits** **Human Sexuality**

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. Prerequisite: BT113 or WR115 or designated placement test score.

### **PSY280 Variable credit** **Cooperative Work Experience/ Psychology**

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.

## **READING**

### **Lower Division Collegiate** **(except where noted)**

### **RD90 4 credits** **College Reading**

Improves reading and vocabulary skills by developing specific reading strategies and analytical skills as well as by expanding basic background knowledge that will lead to proficiency in students' college coursework. Skills to be developed include comprehension, flexibility, critical thinking, graphic illustrations, and the use of library resources. Selections, which are excerpts from current college textbooks and a variety of sources, enable the

student to further develop the background knowledge and vocabulary necessary to effectively read college-level material. The course also addresses work-related literacies such as creative and critical thinking, following written and oral instructions, collaboration, and communication skills. When taken with WR90, courses is equivalent to WR91. Course is graded on a pass/no pass basis. Previously offered as RD30. Prerequisite: Designated placement test score. Course does not transfer.

### **RD115 3 credits** **Speed Reading for College**

Teaches an effective speedreading process. The goal is for students to improve reading rate, vocabulary and comprehension. It also develops skills needed to become a more intelligent reader and a more accomplished college level student. These skills include efficient reading habits such as speed studying and speed researching; recognition of writing structures of fiction and various types of non-fiction; and inferential and critical reading. Prerequisite: RD90 or WR91 or designated placement test score, or college-level reading skills.

### **RD116 3 credits** **College Vocabulary**

Adds significantly to students' reading, writing, and speaking vocabularies, fosters an interest in words, and offers strategies for vocabulary development throughout life. Students will study word elements that hold the key to understanding English words. The vocabulary presented in this class will be practical, contextual, and relevant for all college students. Attention is given to application of spelling and vocabulary to college, personal success and future employment. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

### **RD120 3 credits** **Critical Reading and Thinking**

Develops a student's ability to think logically, solve problems, identify values, and understand various reasoning processes using a variety of sources. Students improve the quality of their reading and thinking by applying elements of reasoning and intellectual standards. In this skill-building course, students will critically evaluate complex issues from a variety of sources and develop lifelong critical thinking, reading and problem solving skills. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

## **RELIGION**

### **Lower Division Collegiate**

### **REL201 4 credits** **World Religions**

Surveys major religions of the world, comparing histories, differences, and similarities. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisites: WR115 or designated placement test score.

### **REL243 4 credits** **Nature, Religion and Ecology**

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. Prerequisite: WR115 or designated placement test score.

## SERVICE LEARNING

### Career and Technical Courses

#### SRV101 1 to 6 credits Service Learning

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. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

## SKILLS TRAINING

### Career and Technical Courses

#### ST99 0 credit Skills Development

Provides hands-on training in basic skills and workplace behaviors needed for success in a particular occupation. Number of hours will vary depending on individual needs and type of occupation. Prerequisite: Student must make arrangements with department prior to enrolling in this course.

#### ST99S 0 credit Skills Development Seminar

Provides instruction on developing self-confidence and meeting basic standards for workplace ethics. Number of hours will vary depending on the individual needs of the student. Course does not transfer. Prerequisite: Student must make arrangements with department prior to enrolling in this course.

## SOCIOLOGY

### Lower Division Collegiate

#### SOC199 Variable credit Special Studies: Sociology

Presents special topics of study in sociology through workshop, seminar, research, and/or independent study formats. Content varies according to department needs and demand.

#### SOC204 4 credits Introduction to Sociology

Surveys theories and findings of sociology, including culture, individuals and groups, socialization, stratification and social control. It is designed to acquaint students with the social forces that impact the lives of individuals. Close attention is paid to social class, gender, and race as they

impact life experiences. Focus is primarily on U.S. and Western societies, with some cross-cultural comparisons. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: BT113 or WR115 or designated placement test score.

#### SOC205 4 credits American Society

Examines the organization of various social institutions such as family, education, religion, politics, health care, criminal justice, media and economics, and analyzes how each are changing. Each social institution is examined in relation to how inequalities by social class, gender and race manifest, and how these inequalities are perpetuated. Social change and social movements are also studied. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: BT113 or WR115 or designated placement test score.

#### SOC211 3 credits Social Deviance and Social Control

Examines deviance and social control from a sociological perspective, showing how deviance is relative to cultural norms. Includes how deviant identities and subcultures are formed, and types of deviance that have a positive impact on society. Covers crime and punishment, white-collar crime, family violence, sexual variance, drug subcultures, cults, and social activism leading to positive social change. Prerequisite: BT113 or WR115 or designated placement test score. SOC204 is also recommended.

#### SOC213 4 credits Race and Ethnicity in the U.S.

Examines the various social, political, 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 to counter inequalities. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: BT113 or WR115 or designated placement test score.

#### SOC218 4 credits Sociology of Gender

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. Emphasizes the ways in which gender intersects with race, social class and sexual orientation. Focuses primarily on U.S. and Western societies with some cross-cultural material. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: BT113 or WR115 or designated placement test score.

#### SOC221 4 credits Juvenile Delinquency

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. Dual numbered as CJ201. Prerequisite: BT113 or WR115 or designated placement test score.

#### SOC225 4 credits Social Problems and Solutions

Introduces students to various social problems in the U.S. from a sociological and global perspective. Some of the social problems covered may include social inequality, food, environmental and health issues, crime and deviance, problems in the family and poverty. A focus on solutions will include a study of public policies employed by various societies. Major theories of sociology are introduced and applied. Prerequisite: BT113 or WR115 or designated placement test score.

#### SOC228 4 credits Environment and Society

Examines the relationship between societies and the environment including how cultural, social, economic and political forces have impacted the earth and natural environment. Explores the causes and consequences of topics such as population growth, consumerism, global warming, pollution and environmental racism and classism. An emphasis will be placed on the study of social movements, cultures and public policies that advance sustainability. The focus is primarily on U.S. and Western societies, with some cross-cultural material. Prerequisite: BT113 or WR115 or designated placement test score.

#### SOC230 4 credits Introduction to Gerontology

Introduces students to the field of gerontology and explores the relationships between aging individuals and society. Prerequisite: BT113 or WR115 or designated placement test score.

#### SOC235 4 credits The Chicano/Latino Historical Experience

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. The curriculum 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, thus bringing awareness of contemporary expressions of identity and their historical origins. Dual numbered as HST259. Prerequisite: BT113 or WR115 or designated placement test score.

#### SOC237 4 credits Communication, Relationships and Technology

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 that focus 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. Prerequisite: BT113 or WR115 or designated placement test score.



## **SOC243 4 credits**

### **Drugs, Crime and Addiction**

Introduce students to the dynamics of drug and alcohol addiction and the social and legal issues of drug abuse. Examines the political considerations behind contemporary drug enforcement policy. Explores the historical origins of the illegal drug trade. Dual numbered as CJ243. Prerequisite: BT113 or WR115 or designated placement test score. SP111 and WR121 are also recommended.

## **SOC244 4 credits**

### **Introduction to Criminology**

Offers an interdisciplinary perspective of crime and criminal behavior in relation to the criminal justice system. Theoretical approaches to explaining crime, criminal statistics, typologies, and victimology will be assessed. The influence of crime theory on public policy will be explored. Dual numbered as CJ101. Prerequisite: BT113 or WR115 or designated placement test scores.

## **SOC280 Variable credit**

### **Cooperative Work Experience/ Sociology**

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.

## **SPEECH**

### **Lower Division Collegiate**

## **SP100 3 credits**

### **Basic Communication**

Offers a basic overview of the communication discipline and emphasizes the skills development of best communication practices in different contexts. Topics to be covered include intra- and interpersonal communication, small group processes, non-verbal communication, culture, and public expression. Prerequisite: WR115 or designated placement test score.

## **SP111 4 credits**

### **Fundamentals of Public Speaking**

Introduces public speaking that is designed to help students overcome nervousness when speaking before a group, learn the steps involved in speech preparation and delivery, and improve skills in analyzing and evaluating the speeches of others. Prerequisite: WR115 or designated placement test score.

## **SP115 4 credits**

### **Introduction to Intercultural Communication**

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. Prerequisite: WR115 or designated placement test score.

## **SP218 4 credits**

### **Interpersonal Communication**

Examines the role of interpersonal communication in human relationships. The focus is on a relational view of communication – one that explores how relationships are created, negotiated, maintained and terminated. Prerequisite: WR115 or designated placement test score.

## **SP280 Variable credit**

### **Cooperative Work Experience/ Speech**

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. Prerequisite: Student must make arrangements with the department prior to enrolling in this course.

## **STERILE PROCESSING TECHNICIAN**

### **Career and Technical Courses**

## **SPT101 4 credits**

### **Sterile Processing I**

Introduces the basic concepts of the practice of sterile processing and the sterile processing technician's role, the language of sterile processing, the types and use of instruments in the surgical setting, and basic concepts of anatomy, physiology, microbiology, and infection prevention that form the building blocks for advanced study in sterile processing. Prerequisite: Acceptance into the Sterile Processing Technician program.

## **SPT102 4 credits**

### **Sterile Processing II**

Builds on material learned in Sterile Processing I. Focus is on the sterile processing technician's role and the behaviors expected of a professional sterile processing technician. Prerequisite: SPT101.

## **SPT123 2 credits**

### **Legal and Ethical Issues for Sterile Processing Technicians**

Exposes students to a variety of legal and ethical dilemmas, helping students become more prudent and confident sterile processing technicians. 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. Prerequisite: Acceptance into the Sterile Processing Technician program.

## **SPT170 12 credits**

### **Sterile Processing Technician Practicum and Seminar**

Provides hands-on clinical experience. Students work an average of 36 hours per week in a host site as part of the sterile processing team and experience first-hand the various operations within a variety of settings where sterile processing is done. 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. Prerequisites: Acceptance into the Sterile Processing Technician cohort and successful completion of all second term courses.

## **THEATER ARTS**

### **Lower Division Collegiate**

## **TA141 4 credits**

### **Fundamentals of Acting I**

Introduces methods and techniques of acting as an art form. Scene work is included and performance is a part of advanced classes.

## **TA142 4 credits**

### **Fundamentals of Acting II**

Introduces methods and techniques of acting as an art form. Scene work is included and performance is a part of advanced classes.

## **TA143 4 credits**

### **Fundamentals of Acting III**

Introduces methods and techniques of acting as an art form. Scene work is included and performance is a part of advanced classes.

## **TA144 4 credits**

### **Improvisational Theater I**

Acquaints students with improvisation through exercises, theater games, and impromptu scenes.

## **TA145 4 credits**

### **Improvisational Theater II**

Acquaints students with improvisation through exercises, theater games, and impromptu scenes. Instructor permission is needed to register.

## **TA146 4 credits**

### **Improvisational Theater III**

Acquaints students with improvisation through exercises, theater games, and impromptu scenes.

## **TA153 4 credits**

### **Theater Rehearsal and Performance**

Provides experience in rehearsing and performing plays. Course may be repeated for a maximum of 12 credits. Instructor permission by audition is needed to register.

## **TA190 1 to 3 credits**

### **Theater Practicum**

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, costuming and/or make-up. Participation during the theater event is required for credit. Course may be repeated up to 6 credits.

## **TA199 Variable credit**

### **Special Studies: Theater Arts**

Presents selected topics of study in theater arts including theater for the deaf, communication through drama, children's theater, and directing.



## **TA280 Variable credit Cooperative Work Experience/ Theater**

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.

## **WELDING**

### **Career and Technical Courses**

#### **WLD101 3 credits Welding Fundamentals I**

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.

#### **WLD102 3 credits Welding Fundamentals II**

Continues study in oxy/fuel cutting/welding, shielded metal arc welding, with emphasis on safety. Prerequisite: WLD101.

#### **WLD104 3 credits Blueprint Reading - Mechanical**

Introduces 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 MET105. Prerequisites: MTH20 and RD90 or WR91 or designated placement test scores. MTH63 is recommended.

#### **WLD111 6 credits Technology of Industrial Welding I**

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.

#### **WLD111D 6 credits Technology of Industrial Welding for Diesel**

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. Prerequisite: Must be currently enrolled in Diesel Technology Program.

#### **WLD111M 6 credits Technology of Industrial Welding for Manufacturing**

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. Prerequisite: Must be currently enrolled in Manufacturing Technology Program.

#### **WLD112 6 credits Technology of Industrial Welding II**

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 at this time. Prerequisite: WLD111.

#### **WLD113 6 credits Technology of Industrial Welding III**

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. Prerequisites: WLD111 and WLD112.

#### **WLD121 5 credits Fabrication and Repair Practices I**

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. Prerequisites: WLD111 and MET101. Corequisite: WLD140

#### **WLD122 5 credits Fabrication and Repair Practices II**

The second of two fabrication and repair courses, builds on skills developed in WLD121 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. Prerequisites: WLD111 and MET101.

**WLD160 1 credit  
AWS Certification Seminar: Plate**  
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 3G and 4G all position welding qualification. Offered infrequently. Prerequisite: WLD112.

#### **WLD211 6 credits Technology of Industrial Welding IV**

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. Prerequisites: WLD111 and WLD112 and WLD113.

**WLD212 6 credits  
Technology of Industrial Welding V**  
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. Prerequisites: WLD111, WLD112, WLD113, and WLD211.

#### **WLD213 6 credits Technology of Industrial Welding VI**

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. Prerequisite: WLD212.

#### **WLD220 3 credits Machine Tool Maintenance and Repair**

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. Prerequisites: MTH60 or MTH63, and BT114 or WR121, or designated placement test scores, and WLD113.

#### **WLD221 3 credits Welding Codes, Procedures and Inspections**

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. Prerequisites: BT113 or WR115 and MTH20 or higher level math, or designated placement test scores.

### **WLD225 3 credits** **Industrial Metallurgy**

Introduces the effects welding and its related processes have on the basic ferrous and non-ferrous metals students will encounter in the field. Students will develop an understanding of basic metal production, alloying, heat treating and material identification systems. Prerequisites: MTH60 or designated placement test score, and WLD113.

### **WLD250 Variable credit** **Selected Topics in Welding**

Focuses on specific areas of welding to further students' needs for advancement in their jobs or desire to further their skills in a specific area of welding or fabrication. Provides extensive hands-on training using a specific welding process on ferrous and non-ferrous metals. Prerequisite: Student must be an Industrial Welding major and make arrangements with the department prior to enrolling in this course.

### **WLD250P 3 credits** **Special Studies: CNC Plasma Cutting**

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. Previously offered as MFG199P. Prerequisites: MTH63 or higher level math or designated placement test score, and WLD112. MFG140 is also recommended.

### **WLD260 1 credit** **AWS Certification Seminar: Pipe**

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. Prerequisite: WLD112.

### **WLD280 Variable credit** **Cooperative Work Experience/ Welding**

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. Prerequisite: Student must be an Industrial Welding major and make arrangements with the department prior to enrolling in this course.

## **WORLD LANGUAGES**

### **Lower Division Collegiate**

### **ASL101,ASL102,ASL103 4 credits each**

#### **First Year American Sign Language I, II, III**

Emphasizes the development of expressive skills, receptive skills and cultural awareness. Primary focus is on the student's active use of American Sign Language (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. Prerequisites: RD90 or WR91 or designated placement test score. Courses must be taken in sequence.

### **FR101,FR102,FR103 4 credits each** **First Year French I, II, III**

Introduces basic skills in reading and speaking; includes elementary exercises in grammar reading and composition. Special attention is given to developing aural comprehension and cultural awareness. Courses must be taken in sequence and are not suitable for heritage speakers. Prerequisites: RD90 or WR91 or designated placement test score. Courses must be taken in sequence.

### **SPAN101 4 credits**

#### **First Year Spanish I**

Introduces basic skills in Spanish in speaking, writing, reading, and aural comprehension. 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). Courses are not suitable for heritage speakers. Prerequisite: BT113 or WR115 or designated placement test score. Courses must be taken in sequence.

### **SPAN102 4 credits**

#### **First Year Spanish II**

Introduces basic skills in Spanish in speaking, writing, reading, and aural comprehension. 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). Courses are not suitable for heritage speakers. Prerequisite: BT113 or WR115 or designated placement test score. Courses must be taken in sequence.

### **SPAN103 4 credits**

#### **First Year Spanish III**

Introduces basic skills in Spanish in speaking, writing, reading, and aural comprehension. 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). Courses are not suitable for heritage speakers. Prerequisite: BT113 or WR115 or designated placement test score. Courses must be taken in sequence.

### **SPAN111 1 to 3 credits**

#### **Spanish Conversation**

Reviews and increases Spanish listening and speaking skills and cultural understanding. Students will demonstrate these skills corresponding to the novice-mid to novice high-level of the ACTFL (American Council on the Teaching of Foreign Languages) proficiency scale in the areas of speaking, listening, and culture. Emphasizes cultural values, fosters a sense of community and collaboration, improves communication skills in regard to the global community as well as the increasingly diverse local community. It includes reading, writing and grammar only when incidental to the focus on conversation. Prerequisites: SPAN101.

### **SPAN201 4 credits**

#### **Second Year Spanish I**

Reinforces, synthesizes, and builds on the basic skills acquired in first-year Spanish in speaking, writing, reading, and listening comprehension. 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-mid 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. Prerequisite: WR115 or designated placement test score, two years of high school Spanish, successful completion of SPAN103, or equivalent Spanish experience. Courses must be taken in sequence. Corequisite: BT114 or WR121

### **SPAN202 4 credits**

#### **Second Year Spanish II**

Reinforces, synthesizes, and builds on the basic skills acquired in first-year Spanish in speaking, writing, reading, and listening comprehension. 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-mid 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. Prerequisite: SPAN201.

### **SPAN203 4 credits**

#### **Second Year Spanish III**

Reinforces, synthesizes, and builds on the basic skills acquired in first-year Spanish in speaking, writing, reading, and listening comprehension. 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-mid 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. Prerequisite: SPAN202.



## WRITING

### Lower Division Collegiate (except where noted)

#### WR90 4 credits

##### Fundamentals of Composition

Introduces the basic five-paragraph essay form while reinforcing sentence skills and paragraph development. Critical thinking and reading are emphasized. Prepares students for transfer-level coursework and, specifically, for WR115. If a high proficiency is demonstrated with in-class writing and student self-identifies as challenging WR115, there is a process that allows students to meet the outcomes for WR115 and be eligible to enroll in WR121. When taken with RD90, course equivalent to WR91. Course is graded on a pass/no pass basis. Previously offered as WR30. Prerequisite: Designated placement test score as shown on current indicator chart. Course does not transfer.

#### WR91 5 credits

##### Fundamentals of Academic Literacy

Combines reading and writing requirements in order to accelerate progress and prepare students for transfer-level coursework and, specifically, for WR121. If a student in this course demonstrates a high proficiency with in-class writing and meets the course learning outcomes, the student may be able to register for WR121 (waiving WR115 placement). Each student is required to attend a lab session two hours a week. An embedded tutor will provide additional support during class and lab sessions. Course equivalent to RD90 and WR90, and graded on a pass/no pass basis. Course does not transfer. Prerequisite: Designated placement test score as shown on current indicator chart. Course does not transfer.

#### WR110 2 credits

##### Understanding English Grammar

Explores the structures of the English language and applies skills gained to proof and edit college-level writing. Students will be able to make conscious choices of grammatical formats to express themselves clearly and to minimize grammar errors in their own papers. Previously offered as WR185. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

#### WR115 3 credits

##### Introduction to Expository Writing

Reviews the basic conventions, purposes, and strategies of college-level writing with an emphasis on in-class writing. Course will survey a variety of rhetorical modes and prepare students for impromptu questions and essays. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

#### WR121 4 credits

##### English Composition I

Covers a range of rhetorical situations and genres of writing, centering on argument. Students learn to read and analyze others' writing and then respond with their own views, showing an awareness of their purpose and audience. The class culminates in a short argumentative research paper. Prerequisite: WR115 or designated placement test score.

#### WR122 4 credits

##### English Composition II

Focuses on scholarly investigation and the proper use of sources and documentation. Major emphasis is on writing research papers that are acceptable by APA standards. Prerequisite: WR121.

#### WR199 Variable credit

##### Special Studies: Writing

Explores special topics in writing including novel and journal writing as well as discipline-specific discourse conventions and professional preparedness.

#### WR227 4 credits

##### Technical Writing

Teaches students to communicate technical information in an accurate, detailed, formal, and functional way. Students will learn to make decisions about the purpose, audience, organization, and design of technical documents and presentations. This course emphasizes a problem-solving approach to technical communication, whether in oral, written, or visual form. The course provides students with the knowledge and opportunity to research and write a professional technical manuscript, analyze workplace situations requiring technical investigation, and deliver an oral presentation using PowerPoint software to an audience. WR227 is offered both in a computer lab classroom and online. Prerequisites: BA131 or CS120 or CIS120, and BT114 or WR121, and CS125WW or CIS125WW, and public speaking ability. Graphics ability or desktop publishing skills strongly recommended.

#### WR241 4 credits

##### Imaginative Writing I

Offers students opportunities to express themselves through literary mediums. Students study models of short stories, poetry, personal memoirs, and do original work in each of these genres. Includes analysis and discussion of students' work. Prerequisite: WR115 or designated placement test score.

#### WR242 4 credits

##### Imaginative Writing II

Offers students opportunities to express themselves through literary mediums. Students study models of short stories, poetry, personal memoirs, and do original work in each of these genres. Includes analysis and discussion of students' work. Prerequisite: WR115 or designated placement test score.

#### WR243 4 credits

##### Imaginative Writing III

Offers students opportunities to express themselves through literary mediums. Students study models of short stories, poetry, personal memoirs, and do original work in each of these genres. Includes analysis and discussion of students' work. Prerequisite: WR115 or designated placement test score.



# Governance and Foundation

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## Karl Brake

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**Makenzie Rodriguez**

Library Specialist I, Library Services

**Laurie Roe**

Director and Accreditation Liaison, Institutional Research and Effectiveness and Planning

**Julie Rossi**

Faculty and Director, Adult Basic Skills; B.A., Education/Humanities, Southern Oregon University, Ashland, 1986; M.A., Education/Humanities, Southern Oregon University, Ashland, 1995; Certificates: Initial Administrative License Program/Portland State University, 2007; Mentor Academy 1 and 2, New Teacher Center at University of California at Santa Cruz, 2008; Leadership Institute, New Teacher Center at University of California at Santa Cruz, 2008; Reading Endorsement Program at Southern Oregon University, 2010

**Bill Rounds**

IT Systems Technician, IT - Network Services; A.A.S., Computer Science, Rogue Community College, Grants Pass, Phi Theta Kappa; Honor Roll; 4.0 GPA, 2015

**Ben Russell**

Electronics Lab Technician, Electronics; A.A.S., Electronics Technology, Rogue Community College, Grants Pass, PTK, 2007

**Nicole Sakraida**

Assistant Director of Recruitment, Admissions and Records; B.A., Spanish, Seattle University, Seattle, 2004; Minor, Sociology, Seattle University, Seattle, 2004; M.Ed., Education, Universidad San Francisco de Quito, Quito, Ecuador, 2007

**Teresa Schawo**

Accountant II, Budget and Financial Services; B.S., Accounting, Southern Oregon University, Ashland, 1994

**Kathi Sharrard**

Administrative Assistant III, Adult Basic Skills

**Jim Shaw**

Faculty, Emergency Services; A.A.S., Emergency Medical Technology-Paramedic, Rogue Community College, Medford, 2003; B.S., Public Safety, Emergency Management, Capella University, Minneapolis, summa cum laude, 2015; Certificates: National Registry of EMT's Paramedic, 13 years; Advanced Cardiac Life Support Instructor (AHA), 12 years; Pediatric Advanced Life Support Instructor (AHA), 11 years; Healthcare Provider CPR Instructor (AHA), 13 years

**Larry Sheely**

Telephone Systems Administrator, IT/Internet & Telecommunication Services

**Al Sheldon**

Quality Assurance and Director, IT Programming Services & Institutional Research; B.S., Computer Science, Montana State University, Bozeman, 1985

**Jennifer Shirley**

Faculty, Nursing; B.A., Anthropology and French, Willamette University, Salem, 2007; B.S., Nursing, Oregon Health and Science University, Portland, summa cum laude, 2016; Masters, Nursing Education, University of Texas Arlington, Arlington, 2017

**Alena Siddon**

Financial Aid Specialist, Financial Aid

**Jodi Simons**

Director of Operations, RCC Foundation; B.A., Psychology/Sociology, Oregon State University, Corvallis, 2001; Ed.M., Adult Education, Oregon State University, Corvallis, 2013

**Georgetta Smith**

Test Proctor II, Academic Success

**Helaine Smith**

Science Lab Technician, Science

**Ted Smith**

Groundskeeper, Facilities and Operations A.S.O.H., Horticulture, Rogue Community College, Grants Pass, 1979

**Teri Smith**

Dean of Instruction, School of Health and Public Service, Allied Health Occupations; B.A., Organizational Leadership, Northeastern University, Boston, summa cum laude, 2010; Ed.M., Adult Education and Curriculum Design, Northeastern University, Boston, 2013; Certificates: Career Development Facilitator - University of Oregon, Eugene, 1997; Graduate Certificate; Distance Learning - Northeastern University, Boston, 2013

**David Snell**

Web Development Specialist, Instructional Media; A.A.O.T., General, Rogue Community College, Grants Pass, 2003; B.A., Creative Writing, Pacific University, Forest Grove, Magna cum laude, 2006, MS, Education, Western Oregon University, Monmouth, 4.0 GPA, 2017; Certificates: Digital Graphics Design, 2004

**Sally Snyder**

Assistant to the Vice President of Student Services, Student Services; B.A., Theater Arts, University of Oregon, Eugene, 1993; minor, Anthropology, University of Oregon, Eugene, 1993

**Curtis Sommerfeld**

Vice President, College Services; B.S., Management, Northwest Christian University, Eugene, 1996; M.A., Business Administration, Northwest Christian University, Eugene, 2013

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Rogue Central Specialist, Rogue Central; A.A.S., Business Technology, Rogue Community College, Grants Pass, 1999

**Lisa Stanton CPA**

Chief Financial Officer, College Services; B.A., Accounting, University of Portland, Portland, 1995; M.B.A., Business, Northwest Christian University, Eugene, Sigma Beta Delta, 2013

**Rebecca Steen**

Academic Adviser I, Counseling and Advising; A.A., Liberal Studies, Feather River Community College, Quincy, High Honors, 2008; B.A., English, University of Phoenix, Phoenix, High Honors, 2014

**Daye Stone**

Director, Educational Partnerships; B.S., Secondary Education, University of Montana Western, Dillon, 1997; M.S., Curriculum and Instruction, Eastern Washington University, Cheney, 2004

**Kathy Strong**

Bookstore Specialist II, Bookstore; A.A.S., Business Technology, Rogue Community College, Grants Pass, 2019

**Katie Strong**

Faculty, Science; B.S., Cell Molecular Biology, Southern Oregon University, Ashland, summa cum laude, 2007; M.A.T., Middle High School Level Science, Southern Oregon University, Ashland, 2011; Certificates: Oregon Teaching License, 2011

**Lynda Surran**

Accountant II (Grants), Budget and Financial Services; B.A., Journalism, University of Oregon, Eugene, 1980

**Dorothy Swain, Ph.D.**

Faculty, Science; BS, Chemistry, University of Illinois, Champaign - Urbana, magna cum laude, 1985; MA, Chemistry, Columbia University, New York City, 1987; Ph.D., Medicinal Chemistry, University of Illinois, Chicago, 1994; MAT, Education, Southern Oregon University, Ashland, 1999

**Sean Taggart**

Director of Risk Management and Title IX Coordinator, Risk Management; B.A., Criminal Justice (cum laude), Sam Houston State University, 2014, M.A., Security Studies, Angelo State University, 2016; CPP Certificate



---

**Jeremy Taylor**

Faculty/Co-Chair, Computer Science; A.G.S., Human Services/Criminal Justice, Rogue Community College, 1993; B.S., Criminology, Southern Oregon University, 1996; M.S., Network Architecture, Capella University, 2012; Microsoft MCSA, MCSE, MCITP, Novell Master CNE and Cisco CCNA certifications

**Niki Theis-Coulter, Ph.D.**

Faculty, Social Science; B.A., Microbiology-premed, Brigham Young University, Provo, cum laude, 1978; M.A., History/Psychology, Utah State University, Logan, summa cum laude, 1990; Ph.D. ABD, History/Psychology, University of Melbourne, Melbourne, Australia, 1998; Certificates: Law Enforcement Ranger Level 4-United States Forest Service; Wildland Firefighter-United States Forest Service; Structural Firefighter-Upwey Fire Brigade (Country Fire Authority, Australia)

**Brian Thompson**

Help Desk Technician, Help Desk; A.A.S., Computer Support Technician, Rogue Community College, Grants Pass, 2018

**Don Tiller**

Media Specialist II, Help Desk; A.A.S., Computer Science, Rogue Community College, Grants Pass, Phi Theta Kappa, 2013; A.A., General Studies, Rogue Community College, Grants Pass, Phi Theta Kappa, 2014; Certificates: PC Microprocessor Systems Technician, 2012; High Technology Studies, 2012

**Julie Toledo**

Completion Specialist II, SOHOPE

**Raul Tovar**

Transition Specialist, TRiO Talent Search

**Ann-Margret Trosch, Ph.D.**

Faculty, Electronics; A.A.S., Electronics, Riverside City College, 1986; B.S., Industrial Technology, Humboldt State University, 1990; M.S., Education, emphasis in Electronic Communication, HSU, 1992; Instructional Design for Online Learning certification, 2004; Human Performance Improvement and Training Systems certification, 2004; Ph.D., Higher Education Leadership and Corporate Programs, Capella University, 2008

**Ky Travis**

Faculty and Department Chair, Early Childhood Education and Elementary Education

**Tyler Tull**

Building and Grounds Maintenance, Facilities and Operations

**Dennis Underwood**

Programmer Technician, Internet Services; A.A.O.T., Rogue Community College, 2001

**Verne Underwood, Ph.D.**

Faculty and Department Chair, Humanities; B.A., English, University of Oregon, Eugene, 1987; M.A., English, University of Oregon, Eugene, 1989; Ph.D., English, Arizona State University, Tempe, 1996

**Darren Van Lehn**

Athletic Director, Athletics; B.S., Sociology—Human Communication, Southern Oregon University, Ashland, cum laude, 2007; M.S., Sports Management—Athletic Administration, Southern New Hampshire University, Manchester, summa cum laude, 2017; Certificates: Career Development Facilitation Certification, 2013; Title IX Investigator, 2017

**Shannon Van Lehn**

Advising Program Coordinator II, Counseling and Advising; B.S., Psychology, Southern Oregon University, Ashland, 2010; M.P.A., Public Administration, Capella, Minneapolis, 2019

**Svetlana Varner**

Faculty, Math; M.S., Applied Mathematics, Chernivtsi State University, Chernivtsi, Ukraine, 1998

**Cessa Vichi**

Library Circulation Services Coordinator, Library; A.G.S., Two-Dimensional Art, Rogue Community College, Grants Pass, 1985

**Carla Villanueva**

Academic Adviser I, Counseling and Advising; B.A., Sociology, University Of Oregon, Eugene, 2013; B.A., Spanish, University Of Oregon, Eugene, 2013

**Shannon Wade**

Accounting Specialist III, Lead for Accounts Payable; Budget Financial Services; A.A.S., Accounting, Office Technology, Rogue Community College, Grants Pass, 2000; Certificates: Office Assistant Certificate, RCC, 1999

**Linda Wagner**

Faculty and Department Chair, Nursing; B.S.N., Nursing, Walla Walla College, College Place, cum laude, 1975; M.N., Major Adult Health Illness Orthopedics Specialty Minor Public Administration, Oregon Health Science University, Portland, 1986

**Brian Walgamot**

Test Proctor I, Counseling and Advising; B.A., Business Marketing, University of Phoenix, Phoenix, 2013

**Grant Walker**

Director/Public Information Officer, Marketing; M.F.A., Theater-Playwriting, Southern Illinois University, Carbondale, Christian H. Moe Playwriting Award, 1988; B.A., English-Writing, Portland State University, Portland, Honor Roll, 1980; A.A.S., Television Production Technology, Mt. Hood Community College, Gresham, 1978

**Katie Watson**

Admissions Coach and International Student Specialist, Enrollment Services; B.S., Business Management, Old Dominion University, Norfolk, cum laude, 2008; M.Ed., Higher Education and Student Affairs, University of Virginia, Charlottesville, magna cum laude, 2013

**Melissa Weast**

Administrative Assistant III, Nursing, Practical Nursing; A.A., Legal Administration, Oregon Institute of Technology, Klamath Falls, 1985

**Luke Weber**

Library Specialist I, Library Services

**Barbara Wicks**

Student Records Specialist, Enrollment; A.A.O.T., Rogue Community College, Grants Pass, 1995; B.S., Environmental Studies, University of Oregon, Eugene, 1998

**Marita Wilder**

Data Management Specialist II, Curriculum and Scheduling

**Ted Willhite**

Faculty, Business Technology; B.S., Chemistry, University of California at Berkeley, Berkeley, Honors, 1974; M.B.A., Finance, Santa Clara University, Santa Clara, Honors, 1984

**Richard Charles Williams**

Faculty, Humanities; European Politics and Literature Program, University of Bradford, England, 1987-1988; B.A., Political Science, CSU, Northridge, 1989; M.A., English, Humboldt State University, 1998; M.A., Religious Studies, University of Wales, Trinity St. David, 2011

**Sarah Wofford**

Accounting Specialist II (Accounts Receivable), Budget Financial Services; A.G.S., General Studies, Rogue Community College, Grants Pass, Phi Theta Kappa, 2011

**Angel Woods**

Administrative Assistant II, Marketing; A.A.O.T., Graphic Design, Rogue Community College, Grants Pass, Phi Theta Kappa, 2009; A.G.S., Business, Rogue Community College, Grants Pass, Phi Theta Kappa, 2008

**Daniel Wu**

Academic Adviser II, Counseling and Advising; B.A., Economics, Simon Fraser University, Vancouver, BC, 2000; M.Ed., Higher Education Student Affairs, University of Southern California, Los Angeles, 2009

**Colletta Young, Ph.D.**

Director, TRiO Student Support Services (TRiO/SSS Programs); B.S., Home Economics Education, Abilene Christian University, Abilene, 1978; M.Ed., Counseling and Psychology, West Texas A M University, Canyon, 1988; Ph.D., Educational Leadership, Gonzaga University, Spokane, 2003



# 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 2018-19.

Debra J Abarca	Genee A Bull	Eric R Dittmer	Kelsey N Goodman	Shelly A Hohl
David S Ackles	Frank E Bungay	George H Doersch	Courtney K Gordon	Jesse P Holcomb
Lauren C Adair	Noah Burg	Robert Dooly	Marcus E Goss	Natalie Holliday
Martin L Adamo	Tamara B Burrill	Thomas Dorigan	Robert A Graham	Stephen E Holst
Eva V Akiyama	Shelly K Bursick	Patricia F Drevets	Michael S. Gray	Rosemarie P Holub
Nickolas R Alexander	Timothy D Busald	Peter H Droesch	Randall J Green	William D Hopkins
Catherine A Allegrretti	Dana Bussell	James A Dunn	Yelena A. Green	Mark D Huddleston
Tiffney Allen	Aaron A Bustard	Talley K Dunn	Gordon M Greenley	Jerry E Hull
Joshua D Allphin	Michael S Calhoun	Regina C Dusenbury	Paula P. Greist	Joseph Hyatt
Pamela T Arbogast	Catriona J Callies	Alfredo Echaide	Cindy L Griffith	Cathy M Iannone
Frank P Armstrong Jr	Daniel G Campagna	Louis R Eck	Daryl L Griggs	Mulleary
Suzanne J Atkin	Kate E Campbell	Daniel Elash	Kathryn S Gronemyer	Martha Ibarra
Karlie A Bach	Melissa R Cano	Jenay M Elder	Christine M Grubb	James A Inglehart
Johnny C Baker	Roger Cantwell	Melinda A Ellerman	Yanira A Grullon Payton	Jennifer L Jackson
Stephen C Ballew	Natasha E Carbin	David R Ellison	Michael A. Grutchfield	Noah Jarvie
Brian Ballou	Galyn B Carlile	Felicity M Elworthy	Paul F Gulrich	Allyson Jeffs
Amanda S Bans	Steven A Carlino	Jennifer K Englund	Frances I Gunson	Bryan R Jeffs
Rebecca J Barker	Regina G Castellon	Patricia Enos	Aina M Hale	William Jennings
Susan C. Bars	Jamie L Causey	Sara P Enriquez	Daniel J Hall	Randi Jiron
Marie Bat'el	Gregory D Chandler	Jarret A Estremado	Robert L Hambleton	Jami L Johnsen
Maria L Battrick	Jasmyne E Chandler	Jennifer L Eufusia	Gretchen C Hamilton	James R Johnson II
Megan S Beck	Quinton J Chapman	Ryan T Evans	Lori D Hamilton	Connie M Johnson
Sara M Bello	Cynthia S Charat	Ronald D Evernham	Petra F Hammer	Deborah Johnson
Darrell L Beltz Jr.	Mark Chinn	Brian R Farber	Westin C Hammer	Diane M Johnson
Seth L Benham	Graeme J Clark	Penny J Farster-Narlesky	Joyce B Hane	Kelly M Johnson
Jason R Bennett	Jackie L Clary	Michael D Fazio	Corey M Hansen	Laura M Johnson
Jon R Bennett	William S Clayson	Mandi R Feetham	Liz C Hardy	Mary K Johnson
Debra Kim Benson	Kenneth L Collins	Reanna S Feinberg	Michael H Harrison	Shirley L Johnson
Glenn A Berg	Daniel W Cook	Richard A Feist	Jesse E Hart	Troy M Johnson
Beth C Beurkens	Dorian F Corliss	Elizabeth A Feller	Cynthia J Hauser	Brandon A Jones
Gulestan H Bharucha	William R Cort	Donald Ferguson	John D Hawkins	Robert Julian
Melissa M Bickel	Ciera L Cox	George A Fernandez	Jennifer L Haynes-Clark	Cliff B Juno
William J Biggs	Michael G Cox	Rogelio Fernandez	Erika F Hayward	Irene Kai
Miranda J Black	Frank G Craig	Ryan B Fields	Jason D Hayward	April L Kalist
Mary Ann Blinkhorn	Laura Crane	Chelsea E Fine	Gabrielle A Headings	Eva Kaye
Julia A Bloom	Michael P Crane	Donna M Fiore	Calderon	Pamela D Kelley
Richard A Blum	Ace B Cranford	Helen R Fleming	Eugene J Hebert	Ben V Kennedy
Larry A Bohn	Sharon D Crawford	Ryan A Forsythe	Else B Heckert	Frank H Kennedy
Brian R Bolstad	Robert M Crutchley	Kathleen L Foster	Timothy R Hegdahl	Kim Keoppen
Michael S Bowman	Alexander R Cummings	Velma V Foust	Trevor Heinsohn	Erin L Kerr
Benjamin J. Boyd	Mary W Dalzell	Anne-Marie R	Theodore Helard	Joelle Khairallah
Steve D Boyersmith	Chelsea K Daugherty	Franchini-Smith	Eric B Hennings	Dennis L Kimzey
Carlos A Bracuto	Kathleen L Davidson	Christina Fuentes	Anthony R Herrera	Larry King
Lisa A Bradshaw	Victor Davila	Diane M Gallas	Holly H Hertel	Jessica L Kitchen
Jillease M Brand	Kim De Costa	Matthew G Galli	Celeste D Hettman	Melissa Klise
Jane M Brockman	Timothy M De Lisle	Galen C. Garretson	Donald E Hickman II	Jeremy M Knight
Toni Bromley	Dennis A. Dedrick	Francine I Gentile	Margueritte L Hickman	Michelle E Knighten
Alison L Brown	Randy C Delonge	Dennis D Gettman	Michael W Hicks	Kurt H Knudsen
Chase A Browning	Kelsey F Dennis	Christina M Giles	Janet E Higgins	Stephen E Kostrna
Tanea W Browning	Gary V DeSimone	Patricia A Gillespie	Richard R Higgins	Thomas M Kowalski
Benjamin M. Bryan	Binod Dhakal	Victor M Gobel	Judith R Hill	Lutz Kramer
Daniel L Buck	Rina Diamond	Robert A Goldenberg	Matthew R Hilliker	Joann Krausser
Tahisha M Buck	Ryan D Dickerson	Edward A Goodboe	Joann H Hoeber	Grover W Kuhs



Rod T LaCoste	Russell A Mitchell Jr	Virginia L Pettit	William Schmidt	Ann E Thompson-Hague
Linda K Lamoreau	Michelle I Mitchell	Carrie A Petro	Suzanne Schroeder	Greig W Thomson
Travis A Landen	Sandra M Mitchell	Jeremy Petronella	Angela W Schultz	Aura V Thuresson
William O Landis	David J Moodie	Christie L Petty	Janelle K Scofield	Michael D Torguson
Mickey L Laney-Jarvis	Margaret A Moodie	Kemp Pheley	Anjanette M Seewer-Reynolds	Franklyn L Tosh
Catherine A. Larive	Matthew S Moreali	Charles F Phenix	Jerry M Serabia	Mark D Troutt
Vincent E Lasnik	Seletta M Moreland	JoDee C Phillips	Carl E Seyboldt	Betzabe H Turner
Felicia P Leavitt	Jason P Morgan	Paul E Phlaum	Cedar Shannon	Faith A Tuttle
Daniel Lebowitz	Glen E Moulton	Robert L Pierce	Bracken J Sharp	Suzanne VanBuren
Ellie J Leonhardt	Barbara CF Mount	Karen J Pleasant	Manuel H Sharp	Ray Van Couvering
David L Lesh	Lindsay J Murillo	Joanna K Poague	Midge L Shaw	Lawrence T Venables
Lawrence A Licato	Josh E Murray	Robert F Poll	Mark A Shay	Rusty L Veth
Gary R Lindsey	Linda M Natali Olson	Frederic F Pool	Robert A Sheehan	Eric J Von Radics
Caroline A Lion	William J Neill	Diana R Porter	Robert E Shelman	Christopher G Wade
Doranne L Long	Christine A Nelson	Eric L Powell	Lisa K Sherrill	Karen S Wade
George A Longden	Jeremy R Nelson	Deborah S Pratt	Andria M Sherrow	Randall E Wade
Joseph M Longo	Tyler Z Nelson	Karl D Pratt	Jr. Shough	Susan G Wade
Hector Lopez	Wayne R Nelson	Michael J Preber	Stephen R Siegel	Robert L Wahl
Melody N Love	Aaron C Nielsen	Dina M Press	Jessica Simpson	Britta M Walker
Gabriela Lozano	Kay M Nielson	Deborah R Preston	Megan N Sjuts	Devon Y Walker
Molly E Luevano	Louis W Nisbet	Kristopher Prusko	Jane Slama	James G Walker
Paula I Lynam	Sarah C. Noffke	Adam G Quinn	Austin C Smith	Tyler S Wallace
Erik H Maddocks	Peter R Nordquist	Travis L Raber	Moreland Smith	Robert Walters
Beth A Manhat	Suzanne C Norwood	Karen B Ramorino	Nathan G Smith	Lai-Jin E Wan
Deborah A Maranov	Rhonda L Nowak	Terri L Regotti	Sammi A Snyder	Yan Wang
Jeremy A Markiewicz	Carolyn A Oates	Richard L Renfro	David B Sours	Merrill F Wann
Linda D Marti	John L Opgenorth	Jennifer K Richards	Beth M Spears	Joshua K Ward
Cheryl D Martin	Travis W Osborne	Regina M Richardson	Thomas C. Spellman	Julie A Wardle
Haley J Martin	Victoria L Osborne	Brandon M Rigaud	Joe H Spurgeon	Deelia M Warner
Paul L Martin	Bethany Osborne-Koch	Rusty R Riis	Denise L Stanford	Darrell R Webb
Richard F. Martin	Cassandra E Osorio	Jo Ann Roberts	Brenda L Stebbeds	Kenneth M Welburn
Stephen Martinich	Jeremy Ostrowicki	Eveline H Robinson	Teri L Steele	Richard S Westensee
Deborah L. Marynak	Joye L Otto	Joseph E Roesler	Priscilla K. Stengel	Tina M Weyland
Jessica J Masters	Mark R Otto	Brian S Rogers	Ryan E Stidham	Galina I Whalen
Clayton J Mattson	Gwendolyn A Overland	Charles E Rogers	Janis L Stoker	Marina C Whitchurch
James L Mau	Katherine A Oxendine	Randall Roos	Michael D Strickler	Barbara A White
John Henderson Maupin	Debra Paciorek	Nathan E Rose	Crystal Stroud	Linda C White
Wolfgang M McAninch-Ruenzi	Emily G Padgett	Christopher C Rossetta	Randi J. Stuart	Katie M Wickham
Patrick G McDougall	Theresa L Palanjian	Paul S Rostykus	Todd C Stubbs	Joel C Wilder
Robert B McGrath	Donna W Parrish	Barbara M Rountree	Steven L Stuckey	Troy L Willett
Maureen A McNally	Trysha A Patryson	Lauren Rubin	Bryan J Studebaker	Ryan R Willits
Brenda K McNellis	Kenneth R Paul	Todd E Rufener	Karen L Suggs	Craig L Wilson
Kristopher Meckfessel	Aaron J Pawol	Kristin M Ryerson	Bonnie B Sutton	James P Wilson
Juanita M Menchaca	Edgar M Pelfrey	Fred M Saada	Denise M Swafford	Lynda K Wilson
Lisa R Mendenhall	David J Penicook	Jessica U Sabolboro	James J Sweeney	Hogan A Winn
Bridey E Mendoza-Moore	Deborah L Perdue	Anna D Salcido	Thomas S Sweeney	Rachel Winters
Eileen M Micke-Johnson	Douglas B Perkins	Heidi A Saleska	Craig L Switzler	Mary Ann F Woodman
Justin R Miller	Thomas L Perkins	John P Salisbury	Julianne M Switzler	Phillip A Young
Kristopher M Miller	Brittany L Perricone	Terrie S. Sandlin	Debra C Talbott	Evgenia S Zamorskaia
Kyle O Miller	Steven G Perry	Kevin R Sands	David C Tally	Jamie L Ziegler
Leslie M Miller	Karen L Peterkin	Takin G Saremi	Kimberly R Tambellini	Steve Ziel
Susan E Miller	Lauren S Peterson	James R Sarmento	Joanne E Taylor	Martin D Zottola
Gregory A Millick	Paula E Peterson	Bruce G Scanlon	David C Thanes	
Scott A Milo	Walter S Peterson	Randall C Scherer	Charles L Thomas	
	Gerald W Pettitt	Sharon K Schmidt		



# Emeriti

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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. Nonetheless, 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

## **D. Thomas Bradbeer**

Dean Emeritus, Human Resources and College Advancement

## **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

## **Galyn Carlile, Ph.D.**

Dean Emeritus, Instruction/Growth Initiatives

## **Carolyn Chancler**

Faculty Emeritus, Adult Basic Education

## **Rex Chapman**

Faculty Emeritus, Business and Office Technology

## **Margaret Cunningham**

Faculty Emeritus, Academic Skills

## **Jeannette Cappella**

Faculty Emeritus, Language Arts

## **Steven Flannery**

Faculty Emeritus, Academic Skills

## **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

## **Sue Hall**

Faculty Emeritus, Nursing

## **Roger Harding**

Faculty Emeritus, Small Business Management

## **Richard Harms**

Faculty Emeritus, Developmental Studies

## **Cynthia Hauser**

Associate Dean Emeritus, Instruction

## **Ralph Henderson**

Faculty Emeritus, Instruction/Career and Technical Education

## **Dorcas Herr**

Faculty Emeritus, Language Arts

## **Dick 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

## **Barbara "Bobbi" Kidder**

Faculty Emeritus, Humanities

## **Dennis Kimzey**

Faculty Emeritus, Mathematics

## **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

## **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

## **Larry Mclane**

Faculty Emeritus, Motorcycle Technology

## **Marion Miller**

Faculty Emeritus, Business and Office Technology

## **Tom Miller**

Faculty Emeritus, Library

## **Billie Miracle**

Faculty Emeritus, Art

## **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

## **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

## **Mary Pierce**

Faculty Emeritus, Reference and Instruction Librarian

## **Bonnie Reeg**

Faculty Emeritus, Disability Services/Tutoring Center/Academic Skills

## **Linda Renfro**

Dean Emeritus, Instruction

## **John Salinas**

Faculty Emeritus, Science

## **Sylvia Thomas**

Faculty Emeritus, Counseling

## **Greig Thomson**

Faculty Emeritus, Human Services/Social Science

## **Laurie Van Riper**

Faculty Emeritus, Adult Basic Education

## **Randy Wade, Ph.D.**

Faculty Emeritus, Business Technology



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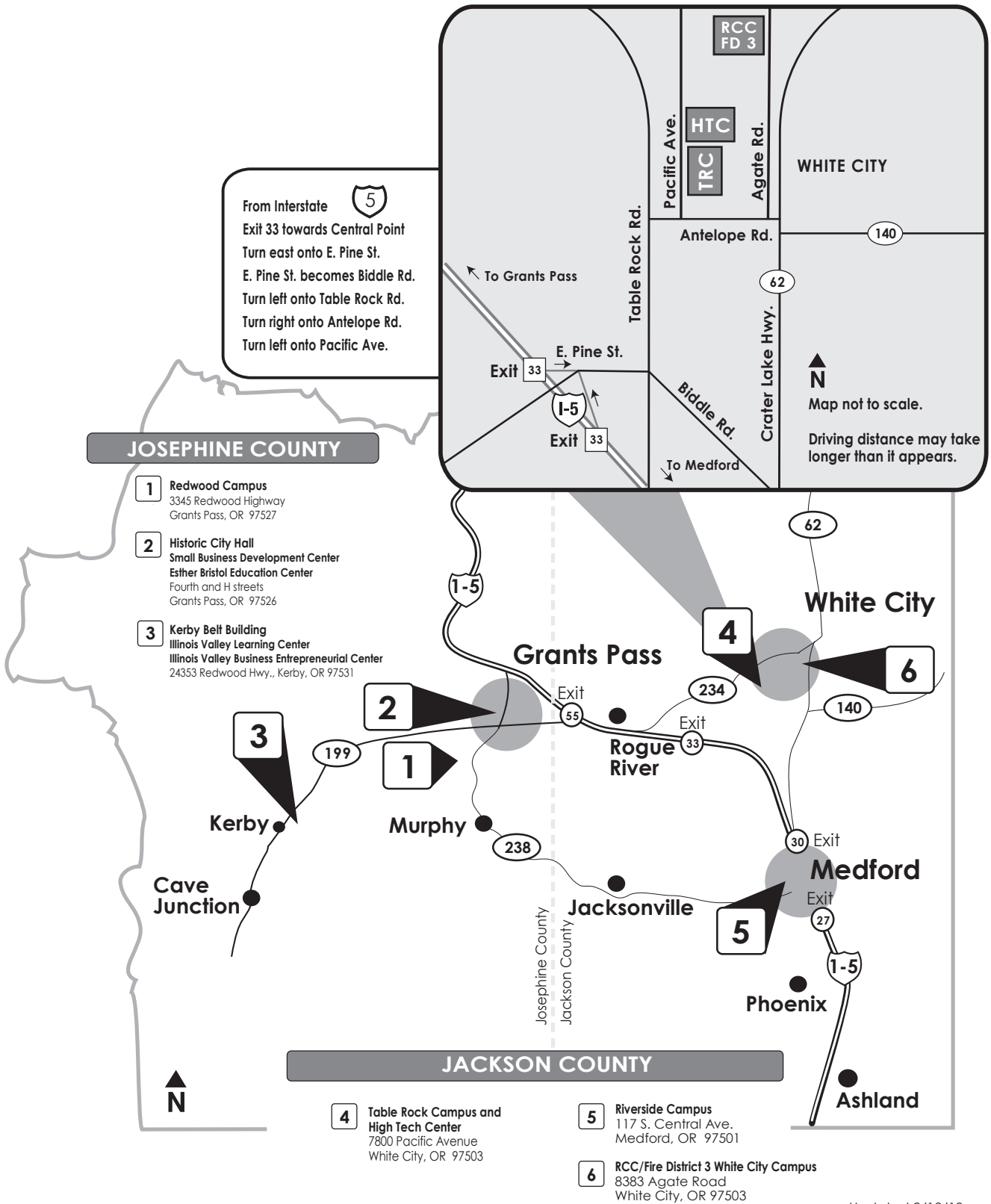




# Maps

## RCC DISTRICT

[www.roguecc.edu/Maps](http://www.roguecc.edu/Maps)





## REDWOOD CAMPUS, GRANTS PASS

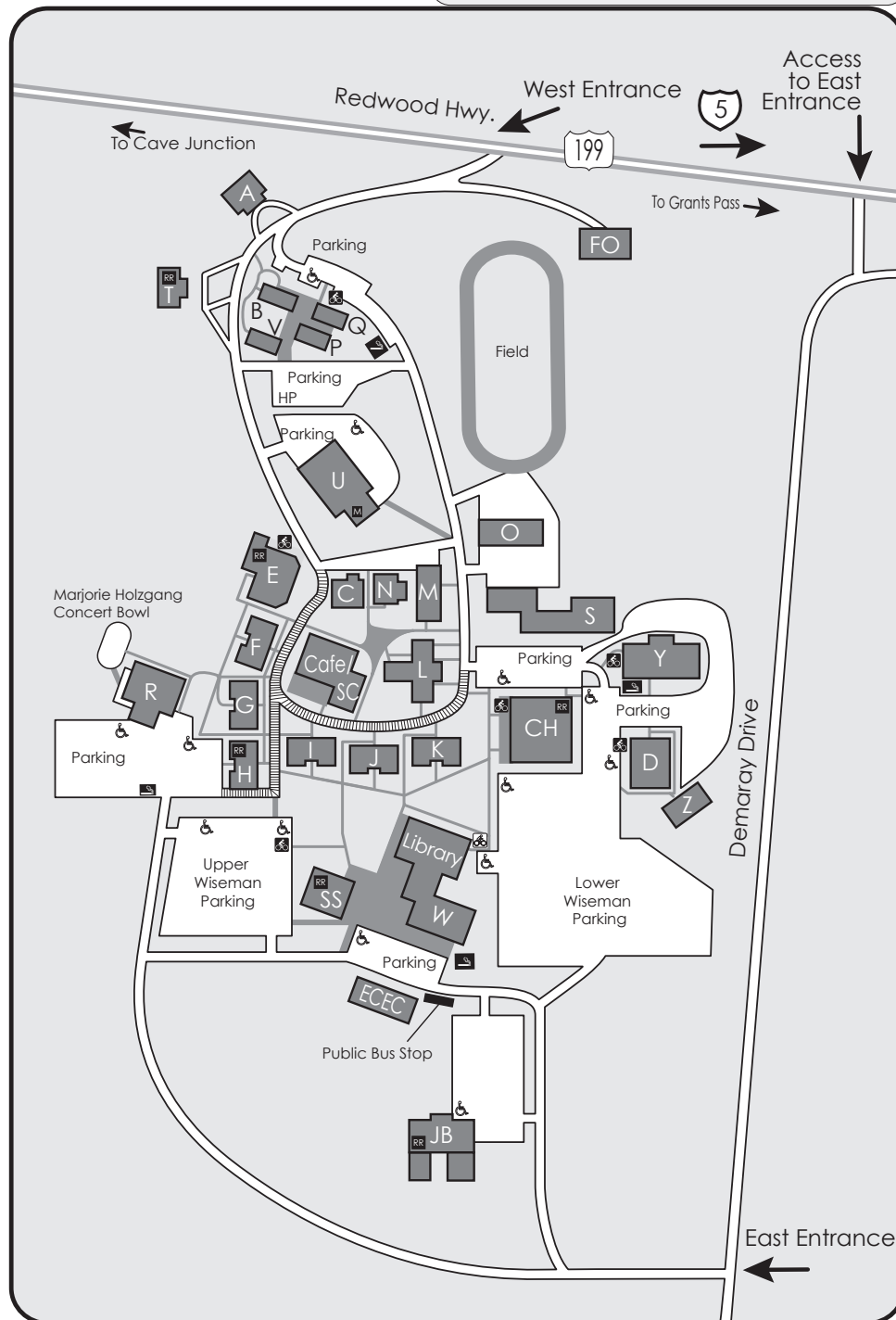
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3345 Redwood Highway, Grants Pass, OR 97527 • 541-956-7500

### Redwood Campus Legend

- |      |  |   |                         |   |             |
|------|--|---|-------------------------|---|-------------|
| A    | APPLGATE                               | W | WISEMAN                 | Y | YAMHILL     |
|      | Continuing Education                   |   | ABS Faculty offices     |   | Electronics |
|      | Workforce Development                  |   | Disability Services     |   | Welding     |
| B    | BLITZEN                                |   | Academic Success Center | Z | ZIG ZAG     |
|      | Nursing                                |   | Library                 |   | Classrooms  |
| C    | CHETCO                                 |   | Math Faculty Offices    |   |             |
|      | College Services                       |   | Testing Center          |   |             |
|      | Information Technology                 |   | Wiseman Art Gallery     |   |             |
| CH   | COATES HALL                            |   |                         |   |             |
|      | Computer Science/Labs/Classrooms       |   |                         |   |             |
|      | Help Desk                              |   |                         |   |             |
|      | Instructional Media                    |   |                         |   |             |
| D    | DESCHUTES                              |   |                         |   |             |
|      | Art Classrooms and Jewelry             |   |                         |   |             |
| E    | ELK                                    |   |                         |   |             |
|      | Science Classrooms/Labs                |   |                         |   |             |
| ECEC | EARLY CHILDHOOD EDUCATION CENTER       |   |                         |   |             |
| F    | FERRIS                                 |   |                         |   |             |
|      | Faculty Offices                        |   |                         |   |             |
| FO   | FACILITIES AND OPERATIONS OFFICE       |   |                         |   |             |
| G    | GRONDE RONDE                           |   |                         |   |             |
|      | Classrooms                             |   |                         |   |             |
| H    | HOOD                                   |   |                         |   |             |
|      | Board Room                             |   |                         |   |             |
|      | Foundation Offices                     |   |                         |   |             |
|      | Marketing                              |   |                         |   |             |
|      | President's Office                     |   |                         |   |             |
|      | Institutional Research                 |   |                         |   |             |
| I    | ILLINOIS                               |   |                         |   |             |
|      | Classrooms                             |   |                         |   |             |
| J    | JOHN DAY                               |   |                         |   |             |
|      | Classrooms                             |   |                         |   |             |
| JB   | JOSEPHINE BUILDING                     |   |                         |   |             |
|      | Contracts and Procurement              |   |                         |   |             |
|      | Placement Testing                      |   |                         |   |             |
|      | University Transfer - TRIO SSS         |   |                         |   |             |
| K    | KLAMATH                                |   |                         |   |             |
|      | Adult Basic Skills - ABE/GED®/ELA      |   |                         |   |             |
|      | Offices and Learning Center            |   |                         |   |             |
| L    | LOOKING GLASS                          |   |                         |   |             |
|      | Administration Offices                 |   |                         |   |             |
|      | Career and Student Employment Services |   |                         |   |             |
|      | Instructional Services                 |   |                         |   |             |
|      | TRIO ROC                               |   |                         |   |             |
|      | Veteran Services                       |   |                         |   |             |
| M    | MCKENZIE                               |   |                         |   |             |
|      | Budget and Finance                     |   |                         |   |             |
|      | Human Resources                        |   |                         |   |             |
|      | Massage Therapy                        |   |                         |   |             |
| N    | NEHALEM                                |   |                         |   |             |
|      | Bookstore                              |   |                         |   |             |
|      | Shipping/Receiving                     |   |                         |   |             |
| O    | OWYHEE                                 |   |                         |   |             |
|      | Facilities Maintenance Shop            |   |                         |   |             |
| P    | PISTOL                                 |   |                         |   |             |
|      | Classrooms                             |   |                         |   |             |
| Q    | QUOSANTANA                             |   |                         |   |             |
|      | Humanities Faculty Offices             |   |                         |   |             |
| R    | ROGUE AUDITORIUM                       |   |                         |   |             |
| S    | SANTIAM                                |   |                         |   |             |
|      | Automotive                             |   |                         |   |             |
|      | Mechanical Tech Labs                   |   |                         |   |             |
| SC   | STUDENT CENTER                         |   |                         |   |             |
|      | Student Government/Clubs and Advisor   |   |                         |   |             |
|      | Veterans Resource Center               |   |                         |   |             |
| SS   | STUDENT SERVICES                       |   |                         |   |             |
|      | Admissions                             |   |                         |   |             |
|      | Counseling and Advising                |   |                         |   |             |
|      | Recruitment                            |   |                         |   |             |
|      | Rogue Central                          |   |                         |   |             |
|      | Cashier                                |   |                         |   |             |
|      | Financial Aid                          |   |                         |   |             |
|      | Registration                           |   |                         |   |             |
|      | SOHOPE                                 |   |                         |   |             |
|      | Transfer Center                        |   |                         |   |             |
|      | Welcome Center                         |   |                         |   |             |
| T    | TUALATIN                               |   |                         |   |             |
|      | Classrooms                             |   |                         |   |             |
| U    | UMPQUA                                 |   |                         |   |             |
|      | Gymnasium                              |   |                         |   |             |
| M    | Mothers room                           |   |                         |   |             |
| V    | VANNOY                                 |   |                         |   |             |
|      | Conference room                        |   |                         |   |             |

- |  |                                       |  |              |
|--|---------------------------------------|--|--------------|
|  | Handicap Parking                      |  | Mothers Room |
|  | Designated Smoking Area               |  | Bike Racks   |
|  | All gender, single use, ADA Restrooms |  | Bike Lockers |





## RIVERSIDE CAMPUS, MEDFORD

Registration: 117 S. Central Ave. Medford, OR 97501 • 541-245-7500

### A – 202 S. RIVERSIDE AVE.

Art  
Allied Health Occupations  
Classrooms and  
Faculty Offices  
Dental Lab  
Nursing Simulation Lab  
Phlebotomy Lab  
SOHOPE

### B – 227 E. 9th ST

Bookstore  
Computer Labs  
Disability Services  
Facilities  
Help Desk  
Mothering Room  
Placement Testing  
Staff and Faculty Offices  
Shipping and Receiving

### C – 130 E. 8th ST

Athletics  
Classrooms  
Health/PE/Recreation  
Music and Theater Arts  
Rogue Performance Hall

### G – 117 S. CENTRAL

Lower Floor  
ABE/GED®/ESL classrooms  
Academic Skills classrooms  
Instructional Media  
Main Floor  
ABS Faculty offices  
Academic Skills Faculty Offices  
Athletic Director  
Academic Success Center  
Security  
Student Government/Clubs  
and Adviser  
Student Lounge  
Testing Center  
Veterans Resource Center  
Welcome Center  
Upper Floor  
Administrative Offices  
Career and Student  
Employment Services  
Counseling and Advising  
Human Resources  
Recruitment  
Rogue Central  
Cashier  
Financial Aid


Registration  
Transfer Center  
TRIO ROC  
University Transfer TRIO/SSS  
Veteran Services







### HEC – 101 S. BARTLETT ST. RCC/SOU Higher Education Center

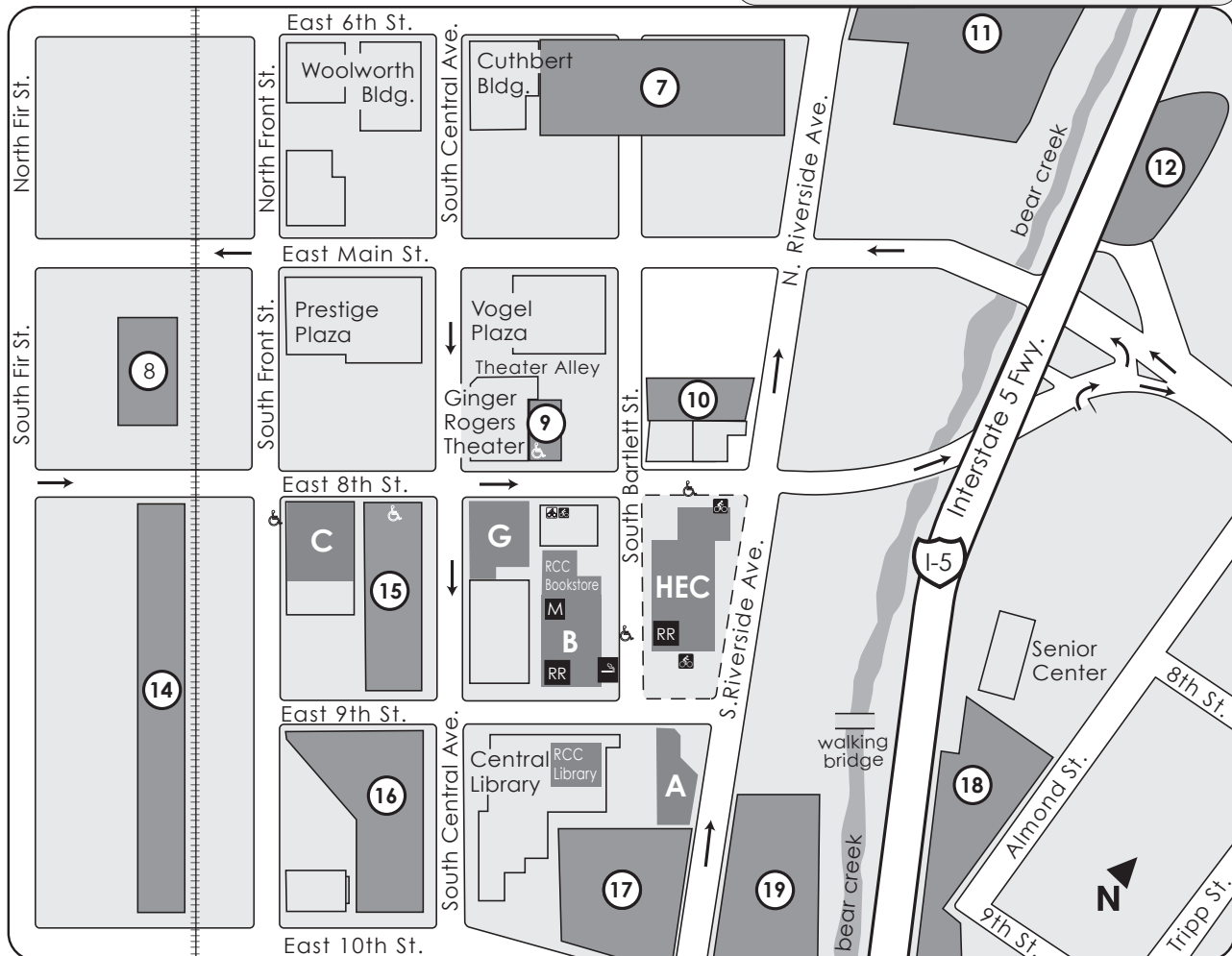
Art  
Business Center  
Business, Computer Science  
Classrooms and Faculty Offices  
Computer Labs  
Early Childhood Education  
Human Services  
Humanities  
Mathematics  
Presentation Hall  
Science  
Social Science

### LIBRARY 205 S. CENTRAL RCC Library

Computer Labs  
Language and Media Labs

**From Interstate**   
From North, Exit 30 toward Medford/Crater Lake  
Turn right onto Crater Lake Hwy./OR-62 W.  
Turn slight left onto OR-99 S./Court St.  
Court St. becomes Central Ave.  
**From South, Exit 27**  
Turn left onto Garfield.  
Turn right onto S. Riverside Ave./OR-99 N.  
Turn left onto E. Main St./Jacksonville Hwy.  
Turn left onto S. Central Ave.

-  RCC Building
-  Designated Smoking Area
-  All gender, single use, ADA Restrooms
-  Mothering Room
-  Bike Racks
-  Bike Lockers



-  Parking
-  - ADA parking

- 7 - Middleford
- 8 - Evergreen
- 9 - Craterian
- 10 - Bartlett South
- 11 - Riverside North
- 12 - Bear Creek North
- 14 - Evergreen South
- 15 - Central B
- 16 - Central A (Expanding)
- 17 - Riverside
- 18 - Bear Creek South
- 19 - Riverside South

\*All parking adjacent to the campus is provided and monitored by Medford parking enforcement. Call 541-774-2082 for parking cost and permit information or visit <http://www.ci.medford.or.us/Page.asp?NavID=3656>

[www.roguecc.edu/Maps](http://www.roguecc.edu/Maps)

updated 3/1/19



# TABLE ROCK CAMPUS, WHITE CITY

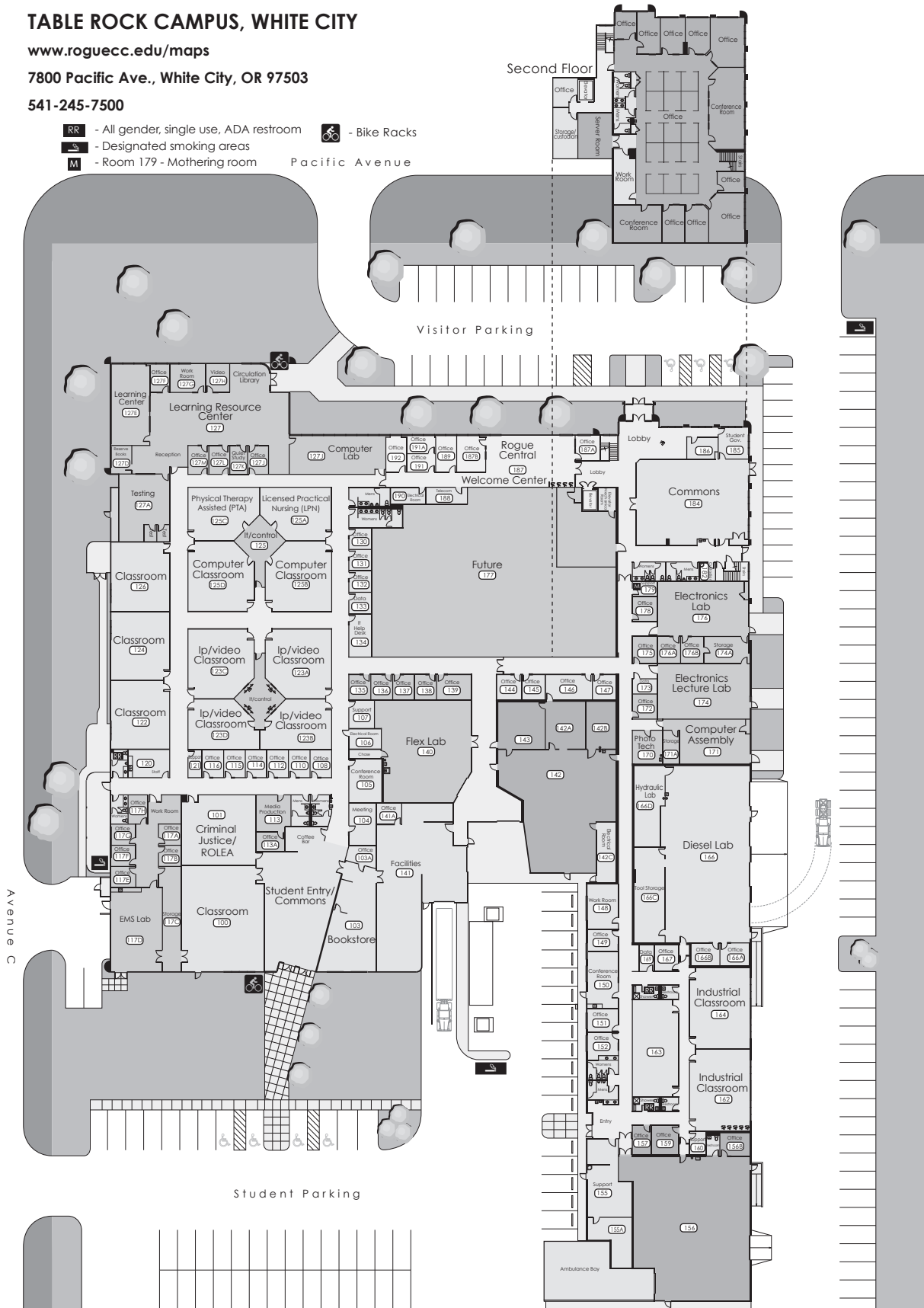
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7800 Pacific Ave., White City, OR 97503

541-245-7500

- RR - All gender, single use, ADA restroom
- S - Designated smoking areas
- M - Room 179 - Mothering room
- Bike Racks

Pacific Avenue



Updated 3/1/19



## Time management tool

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
6:00-6:30 am							
6:30-7:00							
7:00-7:30							
7:30-8:00							
8:00-8:30							
8:30-9:00							
9:00-9:30							
9:30-10:00							
10:00-10:30							
10:30-11:00							
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7:30-8:00							
8:00-8:30							
8:30-9:00							
9:00-9:30							
9:30-10:00							







[illegible]



Rogue Community College Catalog Errata for printed catalog year 2019-20

<https://www.roguecc.edu/PDF/catalog2019-20-errata.pdf>

Page	Program	Correction
14	<b>Advanced Placement Exam chart</b>	Please see below for corrected information for this chart.
15	<b>International Baccalaureate Exam chart</b>	Please see below for corrected information for this chart.
16	<b>College Level Exam Program chart</b>	Under Business, Principals of Accounting is currently titled Financial Accounting. Applicable courses include BA211 and BA212.
52	<b>General Education Requirements</b>	In the fourth column: Associate of Arts Oregon Transfer, the parenthesis should be: (AAOT).
60	<b>OTM Oregon Transfer Module</b>	Under Credit Length, this program should be listed as a one-year <i>curriculum</i> instead of <i>degree</i> . This is a transfer module, not an award.
61	<b>Pre-Engineering (Civil, Electrical, Mechanical, and Renewable Energy)</b>	These are four, separate <u>Engineering transfer</u> to Oregon Tech Associate of Science degrees: Civil, Electrical, Mechanical, and Renewable Energy
71	<b>Basic Health Care Certificate: Exercise Specialist Track</b> <b>Basic Health Care Certificate: Health Care Informatics</b>	The Exercise Specialist Certificate was suspended effective 2019-20. The Health Care Informatics Certificate was suspended effective 2019-20.
82	<b>Business transfer to Southern Oregon University</b>	In Humanities electives, ART131 should be listed as 3 credits.
90	<b>Criminal Justice AAS</b>	In the Third Term section, HE261 is an <i>alternate</i> to HE112.
91	<b>Criminal Justice transfer to SOU</b>	In Approved Humanities electives, ENG253, 254, 255 are all 4 credit courses.
98	<b>Diesel Specialist Certificate of Completion</b>	Approved Program Electives is 6-7 credits. Total credits required for the program to 62-63.
111	<b>Elementary Education transfer to Southern Oregon University</b>	French 101, 102, and 103 should not be included in this list of Approved Humanities electives.
121	<b>Engineering transfer to Oregon Tech – Renewable Energy</b>	<b>In term 6:</b> ENGR211 Statics is 3 credits. Total credits sixth term = 11 Total Second Year Credits = 37-39 Total Credits = 91-93
122	<b>English/Literature Interest Associate of Arts Oregon Transfer</b>	<b>In term 5:</b> PSY201 General Psychology I is Social Science. <b>In term 6:</b> PSY202 is in the Social Science category.
139	<b>Human Services transfer to Southern Oregon University</b>	French 101, 102, and 103 should not be included in this list of Approved Humanities electives.
141	<b>Industrial Welding Technology AAS</b>	<b>In term 5:</b> MEC103 is 1 credit. Total credits for fifth term = 13 Total second year credits = 43-48 Total program credits = 90-95
158	<b>Medical Assistant</b>	In the pre-requisites, the number of credits for WR115/BT113 should be 3-4 instead of 4, making the total credits for pre-reqs 12-18.
190	Heading above the Computer and Information Science courses: Lower Division Collegiate (except where noted). (The notation exists under CIS60: "Course does not transfer.") <b>CS courses are Lower Division Collegiate. CIS courses are Career Technical Education.</b>	
218	<b>MTH244</b>	Pre-reqs for MTH244 are: MTH243, CIS125SS
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Advanced Placement Examination	Scores	Credits	Course
Art – Drawing	3+	4	ART131
Art – History	3	4	ART204
Art - History	4+	8	ART204, ART205
Art – Studio 2D	3+	3	ART115
Art – Studio 3D	3+	3	ART276
Biology	3	12	BI101,102,103 w/lab
Biology	4+	12	BI211,212,213 w/lab
Cal. AB**	3	5	MTH251
Cal. AB**	4+	10	MTH251,252
Cal. BC**	3	10	MTH251,252
Cal. BC**	4+	15	MTH251,252,253
Chemistry	3	5	CHEM104
Chemistry	4+	15	CHEM221,222,223 w/lab
Chinese Language and Culture	3+	12	Humanities Elective
Comparative Government and Politics	3+	4	Social Science Elective
Computer Science A	3	4	CS133
Computer Science A	4+	4	CS161
Computer Science Principles	3	3	Computer Proficiency Elective
Computer Science Principles	4+	4	CS160
English Language and Comp	3+	4	WR121
English Literature and Comp	3+	4	ENG104
Environmental Science	3+	4	ENV111 + 1 credit non-lab science elective
French Language and Culture	3+	12	Humanities Elective
German Language and Culture	3+	12	Humanities Elective
Government and Politics (United States)	3+	3	PS201
History (European)	3+	4	Social Science Elective
History (European)	4+	8	Social Science Elective
History (United States)	3+	4	HST201
History (United States)	4+	8	HST201,202
History (World)	3	4	HST104
History (World)	4+	8	HST104,105
Human Geography	3+	4	GEOG110 + 1 credit social science elective
Japanese Language and Culture	3+	12	Humanities Elective
Latin	3+	12	Humanities Elective
Macro Economics	3+	4	ECON202
Micro Economics	3+	4	ECON201
Music Theory	3+	8+	MUS111,112
Physics 1	3	4	GS104
Physics 1	4+	5	PH201
Physics 1 & Physics 2	3	5	PH201
Physics 1 & Physics 2	4+	15	PH201,202,203 w/lab
Physics 2	3	4	GS104
Physics 2	4+	5	PH202
Physics C (Electricity and Magnetism)	3	5	PH202



Physics C (Electricity and Magnetism)	4+	5	PH212 w/lab
Physics C (Mechanics)	3	5	PH201
Physics C (Mechanics)	4+	5	PH211 w/lab
Psychology	3+	4	PSY201
Spanish Language and Culture	3+	12	SPAN201,202,203
Spanish Literature and Culture	3+	4	Humanities Elective
Statistics	3+	4	MTH243

\*\*Credit not granted in both, only one or the other, depending on the examination taken.



# International Baccalaureate Exam (IB) chart

International Baccalaureate Examination	Standard Level Exam score of 4 or higher		Higher Level Exam score of 4 or higher	
	Credits	Course	Credits	Course
Art History	4	Art History Elective	n/a	n/a
Astronomy	4	GS107	n/a	n/a
Biology	4	BI211	12	BI211, 212, 213
Business Management	4	BA101	4	BA101
Chemistry	5	CHEM221	15	CHEM221, 222, 223
Classical Languages	4	100 level Foreign Language	12	100 level Foreign Language
Computer Science	4	CS161	8	CS 161, 162
Dance	3	PE Elective	6	3 credits PE Elective, 3 credits General Elective
Design Technology	4	General Elective	4	General Elective
Economics	4	ECON201	8	ECON 201, 202
Environmental Systems and Societies	4	ENV111	n/a	n/a
Film	4	Humanities Elective	8	Humanities Elective
Further Mathematics (higher level only)	n/a	n/a	14	MTH243, 251, 252
Geography	3	GEOG110	6	GEOG110, 3 credits Geography Elective
Global Politics	4	Political Science Elective	8	Political Science Elective
History	4	History Elective	8	History Elective
Information Technology in a Global Society	4	Computer and Information Sciences Elective	8	Computer and Information Sciences Elective
Language & Literature (English)	4	WR121	8	WR121, ENG104
Language & Literature (other than English)	4	100 Level Foreign Language	12	100 Level Foreign Language
Literature (English)	4	WR121	8	WR121, ENG104
Literature (other than English)	4	100 Level Foreign Language	12	100 Level Foreign Language
Language B (all languages except English)	4	100 Level Foreign Language	12	100 Level Foreign Language
Literature and Performance (English)	4	Humanities Elective	n/a	n/a
Literature and Performance (other than English)	4	Humanities Elective	n/a	n/a
Marine Science	4	GS108	n/a	n/a
Math Studies (standard level only)	4	MTH105	n/a	n/a
Mathematics	4	MTH111	9	MTH112, 251
Mathematics: Applications and Interpretation	4/8	Score of 4 MTH105, Score of 5+ MTH105, 111	8/12	Score of 4 MTH111, 243 Score of 5+ MTH111, 112, 243
Mathematics: Analysis and Approaches	4/9	Score of 4 MTH111, Score of 5+ MTH111, 251	8/17	Score of 4 MTH111,251 Score of 5+ MTH111, 112, 243, 251
Music (Solo, Group or Composition)	3	MUS101	7	MUS101, 108
Philosophy	4	Philosophy Elective	8	Philosophy Elective
Physics	5	PH201	15	PH201, 202, 203