Rogue Community College
Catalog 2018-19

Rogue Community College

www.roguecc.edu

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

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Introduction

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

Redwood Campus GED® 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

A Building

202 S. Riverside Ave.

B Building

227 E. Ninth St.

C Building

130 E. 8th St.

Central 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

Workforce Training Center

7800 Pacific Ave.
White City, OR 97503
541-245-7900
(800) 460-6766

Table Rock Campus Learning Resource Center

7800 Pacific Ave.,
White City, OR 97503
541-245-7820

RCC
Rogue Community College

2018-2019 ACADEMIC CALENDAR

July 2018

Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6	7
1	8	9	10	11	12	13	14
2	15	16	17	18	19	20	21
3	22	23	24	25	26	27	28
4	29	30	31				

August 2018

Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat
4				1	2	3	4
5	5	6	7	8	9	10	11
6	12	13	14	15	16	17	18
7	19	20	21	22	23	24	25
8	26	27	28	29	30	31	

September 2018

Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat
							1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
1	23	24	25	26	27	28	29
2	30						

October 2018

Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat
2		1	2	3	4	5	6
3	7	8	9	10	11	12	13
4	14	15	16	17	18	19	20
5	21	22	23	24	25	26	27
6	28	29	30	31			

November 2018

Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat
6					1	2	3
7	4	5	6	7	8	9	10
8	11	12	13	14	15	16	17
9	18	19	20	21	22	23	24
10	25	26	27	28	29	30	

December 2018

Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat
10							1
11	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31					

	2018 Summer	2018 Fall	2019 Winter	2019 Spring
Veteran/Qualified dependent registration[1]	May 25	May 25	Nov. 21	Mar. 1
Priority registration[2]	May 29	May 29	Nov. 26	Mar. 4
New student/open registration[2]	June 4	June 4	Nov. 30	Mar. 8
New Student Welcome Days		Sep. 19		
Term begins	**July 9**	**Sep. 24**	**Jan. 7**	**Apr. 1**
Foundation scholarship applications available	June 1		Jan. 4	
Foundation Scholarship Early Bird Deadline	July 13		Feb. 15	
Graduation application deadline[3]			Feb. 15	
Foundation scholarship application deadline	Aug. 2		Mar. 1	
Deadline to add or drop classes[4]	July 18	Oct. 3	Jan. 16	Apr. 10
Withdraw period begins	July 19	Oct. 4	Jan. 17	Apr. 11
Deadline to pay for classes[4]	July 19	Oct. 5	Jan. 18	Apr. 12
First refund date	July 19	Oct. 5	Jan. 18	Apr. 12
Second tuition installment deadline[4]	Aug. 9	Oct. 26	Feb. 8	May 3
Honors night				Apr. 19
Foundation awards ceremony				May tbd
Federal Direct Loan application deadline	Aug. 23	Nov. 30	Mar. 15	June 7
Last tuition installment deadline[4]	Aug. 30	Nov. 16	Mar. 1	May 24
Last day to withdraw or change to audit[4]	Aug. 9	Nov. 16	Mar. 1	May 24
Book buy back	Aug. 29–30	Dec. 5–7	Mar. 20–22	June 12–14
Term ends	**Aug. 30**	**Dec. 7**	**Mar. 22**	**June 14**
Commencement				June 15
Break between terms (no classes)	Sep. 4–21	Dec. 10–Jan. 4	Mar. 25–29	June 17–July 3
Grades available online	Sep. 5	Dec. 12	Mar. 27	June 19
Inservice Week – College is NOT closed except all day Sep. 18	Sep. 17–21			
College closed —				
Independence Day	July 4			
Fridays	July 13–Sep. 7			
Labor Day	Sep. 3			
Inservice	Sep. 18			
Veterans Day		Nov. 12		
Thanksgiving		Nov. 22-23		
Winter closure		Dec. 20–31		
New Year's Day			Jan. 1	
Martin Luther King Jr. Day			Jan. 21	
Presidents' Day			Feb. 18	
Inservice				May 10
Memorial Day observed				May 27

1 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.

2 Advising is required before registering for credit classes

3 Deadline for students graduating at the end of spring or summer term, visit www.roguecc.edu/Commencement/ApplyingforGraduation.asp.

4 Offices close at 5 p.m.

Term begins
Term ends
College closed

Rogue Central and Counseling Department hours:

- Redwood Campus, Grants Pass: 8 a.m.-5 p.m. Monday, Wednesday, Thursday, Friday; 8 a.m.-6 p.m. Tuesday*
- Riverside Campus, Medford: 8 a.m.-5 p.m. Monday, Wednesday, Thursday, Friday; 8 a.m.-6 p.m. Tuesday*
- Table Rock Campus, White City: 8 a.m.-5 p.m. Monday, Wednesday, Thursday, Friday; 8 a.m.-6 p.m. Tuesday*

*** Closed at 5 p.m. during term breaks and Summer term.**

January 2019

Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4	5
1	6	7	8	9	10	11	12
2	13	14	15	16	17	18	19
3	20	21	22	23	24	25	26
4	27	28	29	30	31		

February 2019

Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat
4						1	2
5	3	4	5	6	7	8	9
6	10	11	12	13	14	15	16
7	17	18	19	20	21	22	23
8	24	25	26	27	28		

March 2019

Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat
8						1	2
9	3	4	5	6	7	8	9
10	10	11	12	13	14	15	16
11	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31						

April 2019

Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat
1		1	2	3	4	5	6
2	7	8	9	10	11	12	13
3	14	15	16	17	18	19	20
4	21	22	23	24	25	26	27
5	28	29	30				

May 2019

Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat
5				1	2	3	4
6	5	6	7	8	9	10	11
7	12	13	14	15	16	17	18
8	19	20	21	22	23	24	25
9	26	27	28	29	30	31	

June 2019

Week	Sun	Mon	Tue	Wed	Thu	Fri	Sat
9							1
10	2	3	4	5	6	7	8
11	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30						

Dates are subject to change

5/18/18

www.roguecc.edu/StrategicPlan

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 address the aspirations and needs of our communities creatively.

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 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 — all in Josephine 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 under the Higher Education Coordinating Commission 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.

HECC and CCWD, in coordination with the State Board 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

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 two years 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 please visit 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 Human Resources or visit www.roguecc.edu/Safety.

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 and RCC social media accounts.

Consumer information

All consumer information is available in hard copy at Rogue Central on any RCC campus.

Electronic communication

RCC primarily communicates with students via email. When applying for admission, provide a valid email address, and check regularly for messages from the college.

Foundation

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

RCC employs approximately 315 regular employees: 43 exempt staff, 96 full-time faculty, 165 full-time classified, and 17 part-time classified staff. In addition, the college employs more than 497 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/advisers 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 2016-17 school year, approximately 16,379 students enrolled at RCC. That number represents a full-time equivalent (FTE) of 4,514.27 students.

Frequently called numbers

www.roguecc.edu/Directory

New to RCC? Go to www.roguecc.edu/Students/start.asp or www.roguecc.edu and click on "New Students."

	Redwood	Riverside	Table Rock
Main Number	541-956-7500	541-245-7500	541-245-7500
Admission	541-956-7217	541-956-7217	541-956-7217
Adult Basic Skills (ABE/GED/ESL)	541-956-7253	541-245-7701	541-245-7820
Bookstore (Textbooks)	541-956-7160	541-245-7591	541-245-7870
Community Education	541-956-7303	541-956-7303	541-956-7303
Computer Labs	541-956-7424	541-245-7534	541-245-7990
Counseling and Advising	541-956-7192	541-245-7552	541-245-7863
Disability Services	541-956-7337**	541-245-7537**	541-245-7537**
Enrollment Services	541-956-7427	541-956-7427	541-956-7427
Library	541-956-7152	541-245-7512	541-245-7820
Online Registration Help	RCS@roguecc.edu	RCS@roguecc.edu	RCS@roguecc.edu
Placement Testing	541-956-7112	541-245-7112	541-245-7112
Rogue Central (Financial Aid, Registration, Cashier)	RCS@roguecc.edu	RCS@roguecc.edu	RCS@roguecc.edu
	541-956-7501	541-956-7501	541-956-7501
Student Employment	541-956-7091	541-956-7091	541-956-7091
Testing Center	541-956-7340	541-245-7777	541-245-7820
Transcripts, order info	541-956-7427	541-956-7427	541-956-7427
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 online services:

www.facebook.com/RogueCommunityCollege/
Facebook is social networking site that lets users create profiles, upload photos and videos, send messages, and keep in touch with others.

https://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.

https://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 available at the Apple Store, Google Play, or http://roguecc.edu/campusapp.com

Wordpress Blog: http://roguecommunity.net
Rogue Community is a blog site built to engage with the community of RCC and beyond.

www.youtube.com/user/RogueCCVideos
YouTube is a site for viewing, uploading and sharing videos.

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.

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.

Get Ready to start college

1. Get admitted at www.roguecc.edu/admissions. You will begin receiving important emails from RCC.
2. Sign up for a placement test at www.roguecc.edu/PlacementTest or send official college transcripts to Rogue Central, 3345 Redwood Hwy., Grants Pass, OR 97527.
3. Apply for financial aid at 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.

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: web.roguecc.edu/Counseling and Advising-registration-clinics.
7. Log in at 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.
9. Buy textbooks and supplies at any RCC bookstore or www.roguecc.edu/Bookstore.
10. Get your RCC Student Body card from Student Services. You'll need to show a photo ID.

Go to class

11. Need a campus map? Visit 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.

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.

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, Medical Coding Specialist, 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.

- 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.

Underage enrollment standards for credit classes

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 fellow students as well as professional advisers.

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.

Assessment services

Placement testing

www.roguecc.edu/PlacementTest

Placement tests enable students and their advisers to assess students' academic readiness. The scores help advisers ensure students take classes appropriate to their academic skill levels. Students take an untimed, user-friendly computerized test.

Students who plan to enroll in any course with a prerequisite or intend to pursue a degree or certificate must take a placement test or place through other means such as SAT scores or college transcripts. The following classes have no prerequisites and do not require a placement test:

- ART115 Basic Design (Composition).
- ART116 Basic Design (Color Theory).
- ART131 Instroduction 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.

A placement test may be waived based on any one of the following conditions:

- An official transcript in a sealed institutional envelope with successfully completed college-level reading and math classes.
- Placement test results from another college.
- High School cumulative GPA, senior english course grade and highest high school math course and grade.
- An ACT transcript.
- An SAT transcript.

For more information about placement test waivers, contact the admission coaches at recruitment@roguecc.edu.

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.

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 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 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 adviser 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.
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@roguecc.edu answers questions about the registration process.

Credit students register using the online registration system at www.roguecc.edu/myRogue.

Students should register carefully as they are liable for tuition/fees for any registered courses. Students must drop their registration 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.

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	Wednesday of week two	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

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@roguecc.edu.

Logging onto myRogue

1. Visit the RCC home page at www.roguecc.edu.
2. Select myRogue.
3. Log in with username and password created when completing the online admissions application.
4. To reset username or password, click the "Forgot Your Password?" link, and follow the directions.
5. For other issues contact Rogue Central at RCS@roguecc.edu.

Accessing your program planner

After completing a placement test, students' first-term reading, writing and math courses will be listed on their program planners. Each time students meet with an adviser, the planner will be updated with classes discussed for future terms.

1. Visit www.roguecc.edu.
2. Select myRogue.
3. Enter student ID or username and password.
4. From the Student Resources menu, select "Program Planner." This will show if you have approval to register (e.g., “You have an adviser’s approval to register for classes through fall 2017”). The program planner contains a list of classes an adviser recommends or a program requires.
5. If there is no approval to register, see an adviser using the following guidelines:

a. Students who have completed Writing 115 and Math 60 should see the adviser specializing in their major.

b. Students who have not completed these courses should see an adviser in the Counseling and Advising Department.

Change of registration

Schedule changes may be made at www.roguecc.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.

Administrative drop

For term-length credit classes, students must attend each first-class session during the first week of the term, or they may be administratively dropped from the class by the instructor.

NOTE: Administrative 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 administratively dropped from that class. Contact information for instructors is online at www.roguecc.edu/Search/PhoneNumbers.

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

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

Official Drop or Withdrawal from classes

- Students may drop from a term-length class through Wednesday of the second week of each term until 11:59 p.m. Tuition is refunded in full (and financial aid adjusted if necessary) when a student drops a class. There is no notation of the dropped 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 drop 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. Students who stop attending a class, but do not officially drop or withdraw will receive a grade for the course that will become a permanent entry on their academic records.

Unofficial Drop or Withdrawal from classes

Students who stop attending but do not officially drop or withdraw receive the grade that they earned based on syllabus requirements. If that grade is F, NP, or Z 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.

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.

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 2018-19:

- Oregon residents – $107 per credit hour.
- Out-of-state residents – $131 per credit hour.
- International students – $358 per credit hour.
- Technology fee – $7 per credit/ $7 per non-credit class.
- College services fee – $20 for 0 credits, $60 for 1-5 credits, $100 for 6-11 credits, $140 for 12 or more 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 and a $20 college services 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 driver's license, property tax bill, or utility bills (dated 90 days prior to the first day of the term). Students who cannot provide any one of the appropriate documents will be charged tuition as determined by the 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 dates are indicated online at 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"). 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. 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.

Student installment plan

www.roguecc.edu/Installment

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.

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.

Request more information via email: 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 a 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 dropped 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.

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.

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

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

Academic Information

Academic standing

www.roguecc.edu/Enrollment/SASP

Academic difficulty results when a student is not making satisfactory academic progress. A student whose term and/or cumulative grade point average is below 2.0, and/or who does not successfully pass 50 percent of attempted credits will be placed first on academic warning and second on academic probation, and eventually will be academically suspended if academic difficulty continues.

NOTE: For the complete Satisfactory Academic Progress Policy, see the Policies section of this catalog.

Choosing a major

RCC advisers 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.).

An Associate of Science (A.S.) degree has articulated agreements that allow students to transfer to Southern Oregon University or Oregon Tech.

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 AGS 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 advisers can help students identify career goals within their declared majors and can provide information on local vocational trends in their fields.

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 / **Total credit hours attempted**	divided by	22 / 10	= 2.20

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 consisting of five letter grades which are used in calculating grade point average. Instructors may assign a plus or minus to grades A, B, C or D. Plus and minus do not calculate into a student’s 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. Z (no basis for grade), 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.

- Z indicates no basis for grade (e.g., student does not attend beyond the first third of the scheduled class meetings). A Z grade is not intended as an alternative to an F or NP grade.

  If a student attends beyond the first third of the scheduled class meetings, a grade for the class other than Z must be assigned.

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.

Repeating a course

Students may request that a previous lower grade (defined by grade points) or grades for a course repeated at RCC be excluded from their (GPA) calculation. All courses taken will remain on the student's transcript, along with the original grade or grades, but the original grade or grades will not be included in the grade point average (GPA) calculation. This applies only to grades that are included in GPA calculations, not W, Z, Y, NP, P, I or AU grades. Repeating a previously passed course is aid-eligible only once. Notify Rogue Central before enrolling in a course 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.

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. CS, CG, MTH, RD, WR) followed by numbers of less than 100 (e.g., MTH20) are generally considered academic success courses. (Sometimes financial-aid eligible.)
- Career and Technical. Courses identified by the following prefixes: AH, AM, APR, BT, CPL, DA, DS, ECE, EET, EMS, ES, EST, FRP, GD, HC, HCI, HD, HS, MEC, MET, MFG, MT, NUR, PN, PRX, SPT, SRV, ST, TD, WLD are career and technical courses. Most of these courses apply to career and technical degrees and certificates from RCC. (Financial-aid eligible if required or 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.

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.

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.

Registration Steps

Update "Personal Information" on myRogue

Email is the official RCC mode of communication. It is your responsibility to keep your contact information current and is essential to your success as a student.

Check your Financial Aid Status on myRogue

We recommend all RCC students apply for financial aid. To apply, you must first complete the Federal Application for Financial Student Aid (FAFSA) (https://fafsa.gov/). You may check your financial aid status in myRogue. The FAFSA application is available in October for the next academic year.

- Check to see if RCC has received your FAFSA.
- Confirm what you need to do to complete your application – check message board.
- See what amount of money you have been awarded.

Register for Courses

1. Review your Placement Test Scores and graduation guide for required and recommended courses. Refer to RCC College Catalog, Program Planner, Degree Audit, and the RCC website.
2. Select a term.
3. If you plan to take classes on only one campus, select your preferred campus.
4. Check day, time, place (RWC=Grants Pass, RVC=Medford, TRC=White City, or Distance=online) online as you plan out your schedule.
5. You may search with the course number that is listed on your Program Planner.
6. Click on "Course Title" to get a description of the class and prerequisites for each course.
7. "Add" this class to your shopping cart if you want to register for the course.
8. Continue shopping and repeat steps 2-7 until you have registered for all your classes.
9. "Advance to Check Out," make sure to complete all steps so you are registered for your courses.
10. Read and agree to the Tuition Payment Policies.
11. Read, understand and agree to the Student Code of Conduct.
12. Finish and View Payment Options.
13. Select payment option.
14. Review "Printable Student Schedule" with book requirements and print to confirm you have registered successfully.

- 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 NACES members may be found online at www.naces.org/. Students may use the NACES member of their choice for a course-by-course or comprehensive evaluation, including grades.

Pathfinder programs

www.roguecc.edu/pathfinder

- Table Rock Campus, 541-245-7806

Pathfinder refers to all dual enrollment programs (College Now, Early College Option, Extended Options) and high school partnership agreements between RCC and Jackson/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 also usually grant credit for these courses. Pathfinder credits may be earned while working toward a Career Pathways certificate, a one-year certificate of completion, or a degree in many programs.

Pathfinder requires students to:

- Be enrolled in or starting 11th or 12th grade.
- Have and maintain a 2.5 GPA per term.
- Be at least 16 by the first day of the semester/session for which the student has applied.
- Complete a placement test.
- Submit a completed Pathfinder application packet with a parent signature, student signature, completed recommendation form, and a high school transcript (an unofficial transcript will be accepted; report cards and progress reports will not be accepted).

Applications and more information are available from the Educational Partnerships Department, Table Rock Campus, Room 200, 7800 Pacific Ave., White City, OR 97503, 541-245-7806, or HSA@roguecc.edu.

Advanced Placement Exam chart

Advanced Placement Examination	Scores	Credits	Course
Art - History	4+	8	ART199
Art - Studio	4+	4	ART199
Biology	4+	12	BI211,212,213 w/lab
Chemistry	4+	15	CHEM221,222,223 w/lab
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+	3	ENV111
Government (United States)	4+	3	PS201
History (United States)	3+	4	HST201
History (United States)	4+	8	HST201,202
History (World)	4+	8	HST104,105
History (European)	3+	4	Social Science Elective
History (European)	4+	8	Social Science Elective
Human Geography	3+	3	GEOG110
Macro Economics	3+	4	ECON202
Micro Economics	3+	4	ECON201
Music Theory	4+	8+	MUS111,112
Physics 1	4+	5	PH201
Physics 2	4+	5	PH202
BOTH Physics 1 & Physics 2	4+	15	PH201,202,203 w/lab
Physics C (Mechanics)	4+	5	PH211 w/lab
Physics C (Electricity and Magnetism)	4+	5	PH212 w/lab
Psychology	3+	4	PSY201
Languages and Culture			
Chinese Language and Culture	3+	12	Humanities Elective
French Language and Culture	3+	12	Humanities Elective
German Language and Culture	3+	12	Humanities Elective
Japanese Language and Culture	3+	12	Humanities Elective
Latin	3+	12	Humanities Elective
Spanish Language and Culture	3+	12	SPAN201,202,203
Spanish Literature and Culture	3+	4	Humanities Elective
Mathematics			
Cal. AB**	3	5	MTH251
Cal. BC**	3	10	MTH251,252
Cal. AB**	4+	10	MTH251,252
Cal. BC**	4+	15	MTH251,252,253
Statistics	4+	4	MTH243

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

Educational Partnerships

www.roguecc.edu/EdPartnerhsips

- Table Rock Campus, 541-245-7806

Educational Partnerships department coordinates dual credit enrollment programs (College Now, Early College, and Expanded Options) 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

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
Humanities/Performing Arts				
Dance	4	General Elective	8	General Elective
Film	4	Humanities Elective	8	Humanities Elective
Music (Solo, Group or Composition)	4	MUS101	7	MUS101, 105
Philosophy	4	PHL101	8	PHL101, Humanities Elective
Theater Arts	4	Theater Elective	4	Theater Elective
Visual Arts	3	(no longer offered)	8	Studio Art Elective
World Religions	4	REL201	n/a	n/a
Languages				
Language A: Literature (English)	4	WR121	12	WR121, ENG108, ENG109
Language A: Language & Literature (English)	4	WR121	12	WR121, ENG104, ENG105
Language A: Literature (other than English)	4	1st course in 2nd yr sequence language	12	2nd year language sequence
Language A: Language & Literature (other than English)	4	1st course in 2nd yr sequence language	12	2nd year language sequence
Language B (all languages except English)	4	1st course in 2nd yr sequence language	12	2nd year 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
Classical Languages	4	2nd year Foreign Language or Humanities Elective	12	2nd year Foreign Language or Humanities Elective
Individuals and Societies				
Business	4	BA101	4	BA101
Economics	3	ECON115	8	ECON 201, 202
Geography	3	Social Science Elective	6	GEOG100, 110
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	HST 201, 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
Psychology	4	PSY 201	8	PSY 201, 202
Social and Cultural Anthropology	4	ANTH 110	4	ANTH110
Sports, Exercise & Health	3	HPE295	6	HPE295, 3 credits of Health/PE
Sports, Exercise & Health	3	HPE295	6	HPE295, 3 credits of Health/PE
Mathematics and Computer Science				
Computer Science	4	CS 161	8	CS 161, 162
Information Technology in a Global Society	4	CS120	8	CS120, 4 credit CS elective
Math Studies (standard level only)	4	MTH 105	n/a	n/a
Mathematics	5	MTH251	10	MTH251, 252
Further Mathematics (higher level only)	n/a	n/a	15	MTH251, 252, 253
Sciences				
Biology	4	BI211	12	BI211,212, 213
Chemistry	5	CHEM221	15	CHEM221,222 223
Design Technology	4	Non-lab Science Elective	4	Non-lab Science Elective
Environmental Systems and Societies	4	ENV111	n/a	n/a
Physics	5	PH201	15	PH201, 202, 203

College Level Exam Program (CLEP) chart

College Level Examination Program (CLEP) Credit	Scores	Credits	Course
General Examinations			
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
Subject Examinations			
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
Foreign Languages			
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
History and Social Sciences			
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
Science and Mathematics			
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
Business			
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.*

school teachers and qualify for RCC credit; high schools also 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 complete a placement test; submit a completed RCC application online and complete and submit an underage enrollment form. Contact your high school counselor for assistance. More information is also available from the Educational Partnerships Department, Table Rock Campus, Room 200, 7800 Pacific Ave., White City, OR 97503, 541-245-7806, or HSA@roguecc.edu.

College Now

High School Dual Credit

www.roguecc.edu/EdPartnerships

Students from area high schools that have dual credit program agreements with RCC may earn free college credit while in high school. The program encourages seamless education that starts in high school and can continue through college. Community college staff work cooperatively with high schools to develop a curriculum that matches the rigor of a college course. High school students may contact their counselors for information about dual credit classes or contact the Educational Partnerships Department. Participation in dual credit does not automatically enroll a student in an RCC degree or certificate program. Work with your high school counselor to follow regular RCC online admission procedures.

Early College Options

www.roguecc.edu/EdPartnerships

Early College option allows high school students to take a combination of free dual credit courses and traditional RCC courses with the intention of completing an RCC certificate or other plan of study. Students typically need traditional RCC courses beyond College Now offerings to complete a program. Traditional RCC courses taught by RCC faculty may be offered at a discounted rate if arranged through the high school liaison. High schools will determine if the traditional RCC courses apply to high school diploma requirements. All RCC course placement and prerequisite requirements apply.

Expanded Options

www.roguecc.edu/EdPartnerships

The Expanded Options Program (EOP) was created in 2005 via Senate Bill 300 (SB 300),

with the goal to provide students with additional options to continue or complete their education, and to allow them to earn concurrent high school and college credits through public community colleges and universities in the state of Oregon. If accepted into the program, the student's sponsoring high school covers the cost of tuition and fees. To be eligible to apply, the student must be:

- 16 years of age or older at the time of enrollment and in grade 11 or 12.
- Currently enrolled in high school.
- On track to complete course requirements for graduation.

This program is not available to students who have already received a high school diploma or to foreign exchange students enrolled in a school under a cultural exchange program. Work with your high school counselor to obtain more information on this option.

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

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.

Integrated Business Entrepreneurship – Avista Center

www.roguecc.edu/cpl/avista.asp

- Business Technology Department, Redwood Campus, 541-956-7066
- Business Technology Department, Riverside Campus, 541-245-7527

Up to 13 credits may be earned toward the Associate of Applied Science degree in Business Technology for successfully completing all modules in the Avista entrepreneurship curriculum offered in collaboration with the RCC Small Business Development Center. Credit can be earned for these courses:

BA213 Managerial Accounting – 4 credits.

BA223 Principles of Marketing – 3 credits.

BT265 Writing a Business Plan – 3 credits.

BT250 Entrepreneurship – 3 credits.

Students must complete at least 11 other credits and be enrolled in at least 3 credits, excluding Credit by Examination, at the time of application.

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 knowledge and/or skill to earn college credit for existing RCC classes by submitting a written portfolio through which evidence of relevant experiential learning is documented 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 instead.

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 Dean'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.
- Dean'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 "GPA 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

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

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 made up 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

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.

Student educational records

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

Student right-to-know

Graduation rate

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. For additional information and FAQs, visit www.roguecc.edu/students/1098T.asp.

It is strongly recommended that students consult a tax adviser 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.

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. Students also may order official transcripts from www.roguecc.edu/transcripts.

Understanding college terms

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.

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.

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.

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 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) degree 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, DS, ECE, EET, EMS, ES, EST, FRP, GD, 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 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 Department 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.

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.

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, 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.

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.

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 athletics.roguecc.edu.

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.

Career and Student Employment Services

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.
- Complete the CIS: Career Information System.

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 workers 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.

Off-Campus Employer Services

On-line job posting services are offered at no cost to our community employers. For job posting information, visit the RCC website or contact Career and Student Employment Services for more information.

Counseling and Advising

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 advisers 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 the Adult Basic Skills Department, 541-245-7701 at the Riverside Campus, or 541-956-7253 at the Redwood Campus.

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 advisers. 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 adviser 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.
- Exercise Specialist, 541-956-7140 (Grants Pass); 541-245-7504 (Medford).
- 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 the Counseling and Advising Department.

If you need an individual advising appointment, it should be made by Oct. 31 for winter-term advising, by Feb. 14 for spring-term advising, and by May 5 for summer- and/or fall-term 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 the Counseling and Advising Department.

The RCC website provides useful career exploration resources. Visit 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 the Counseling department 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?

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

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

How do I know if I need counseling?

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

- Do you have intense feelings of depression?
- Do you experience feelings of anxiety or panic?
- Do you have difficulty concentrating on assignments in class?
- Do you feel that your usual coping strategies 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/counselors.

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

- 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 Minusvalidez

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

Los Servicios de Minusvalidez coordinan con

personas quienes toman apuntes y quienes interpretan con lenguaje de señas. También los servicios brindan consejeros para estudiantes con discapacidades de aprendiza 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 Minusvalidez para explorar servicios. Además, se recomienda que estudiantes piden 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 Minusvalidez para obtener autorización para el guía antes de asistir a clases o eventos en el campus.

Enrollment Services

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

See the Financial Aid Application and Process Information brochure 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, 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.

Monitor your financial aid status by logging on at 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.

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.
- 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. 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.
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, 2018. 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 submit-ted a dual enrollment form, RCC will issue payment to SOU before releasing a refund of extra financial aid to BankMobile.

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 Refund Selection Kit in the mail. For more information about BankMobile, visit http://bankmobiledisbursements.com/refundchoices/

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, W, or Z grades (unofficial withdraw), 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 brochure at 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, which is the second Wednesday of the term.

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 brochure at web.roguecc.edu/financial-aid/financial-aid-forms.

Satisfactory academic progress requirements

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

For more information, see the RCC Satisfactory Academic Progress policy at 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 at the beginning of the term either a per-term dual enrollment form for Southern Oregon University or Oregon State University or a dual enrollment non-SOU consortium agreement for other institutions. Forms are available at 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 pecent of $5,920 annually are disbursed over 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.
   - Oregon Opportunity Grants are up to $2,250 annually. They are authorized by the Office of Student Access and Completion (OSAC) 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.osac.state.or.us/oog.html. 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 perm 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) and the Oregon

Student Assistance Commission (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.

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. 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.roguecc.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 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.
- 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 advisers. The Dependents of Fallen Oregon Service Members form is available at www.roguecc.edu/Enrollment/forms.

Financial Literacy $ALT

Rogue Community College has contracted for student loan default prevention assistance and financial literacy information for our students, as follows:

Through 12/31/18: American Student Assistant's "$ALT" platform. Borrowers can call 855.469.2724 (toll-free) or email membersupport@saltmoney.org.

After 12/31/18: 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 1-855-456-2656 (toll-free). For more information, see https://www.iontuition.com/FAQs.

Graduation

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.

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 adviser 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 adviser 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

The Human Development Department 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 Outreach and Recruitment

RCC Latino Outreach & Recruitment provides an inclusive and welcoming space for prospective and current Latinx students. Staff support students with the enrollment process, transitioning into college, and throughout their first year of college. Students will also receive resources and support for paying for college (scholarships, FAFSA, ORSAA, and

Oregon Promise Grant). For more information call 541-245-7711.

Latino services

www.roguecc.edu/LatinoServices

Educación, un Mundo de Oportunidades (EMO)

541-245-7711

EMO is a nonprofit one-day educational conference designed to assist Latino high school juniors and seniors from Jackson and Josephine counties. The conference provides relevant information about postsecondary education and other valuable resources for achieving success in college and beyond.

Helping Oregon Latinos Advance (HOLA)

541-245-7711

HOLA is a high school-to-college bridge program. 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. For more information, call 541-245-7711.

Southern Oregon Latino Scholarship Fund

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

Educación, Un Mundo de Oportunidades (EMO)

541-245-7711

EMO que no tiene fines de lucro, presentará por un dia 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.

Ayudano a Los Latinos de Oregon a Progresar (HOLA)

541-245-7585

HOLA es un programa transición diseñado para aumentar la preparación de los estudiantes de la escuela secundaria a RCC. 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.

Fundación de Becas para Latinos del Sur de Oregon

www.solsf.org

La Fundación de Becas para Latinos del Sur de Oregon (SOLSF) provee oportunidades para estudiantes latinos/hispanos que viven en la región del sur de Oregon para completar sus metas post-secundarias en sus carreras. Cada año, con la ayuda de generosos patrocinadores comunitarios, la SOLSF les otorga múltiples becas universitarias a estudiantes con herencia latina."

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

web.roguecc.edu/enrollment-services/rogue-central-services and 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

- 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 Athletics Conference (NWAC). As a member of the southern region of the NWAC (www.nwac-sports.org), RCC hosts men's and women's soccer. RCC team colors are blue. For more information or to apply as an athlete, go to athletics.roguecc.edu. Go Ospreys!

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 the 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.roguec.edu/AZP

Faculty Adviser, Redwood Campus: jjones@roguecc.edu

Academic excellence is the primary hallmark of Alpha Zeta Pi along with service and leadership opportunities. Service projects occur once a term and benefit RCC and/or the community. 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 at least eight credits.

Membership in Alpha Zeta Pi provides academic recognition on member transcripts, honors regalia at graduation, and in the commencement program. An Induction Ceremony and Dinner in May further recognizes members with their families and friends. There are several scholarships available for application with Alpha Zeta Pi, including textbook scholarships winter term.

Intramural sports

- ASGRCC Office, Student Center/ Cafeteria, Redwood Campus, 541-956-7033
- ASGRCC Office, G Building, Riverside Campus, 541-245-7729

Intramural sports such as badminton, basketball, volleyball, and softball are coordinated through the Associated Student Government of Rogue Community College (ASGRCC) and the Health, Physical Education and Recreation (HPER) Department. Students interested in intramural on-campus activities such as tournaments are invited to contact the ASGRCC intramural coordinator.

Student government

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 following officers presiding in the following positions are appointed by the ASGRCC Executive Council: president; vice president; director of activities; director of clubs and organizations; health and wellness coordinator; executive secretary; diversity coordinator; director of publicity and media, and student senator.

Student government officers receive a stipend for their services to the student body and the college campus. Ad hoc representatives may be appointed to paid and/or volunteer positions.

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 Centers (ROC)

www.roguecc.edu/TRiOEOC

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

The TRiO ROC provide 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

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

- 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

- Redwood Campus, Student Services Building, 541-956-7109
- Riverside (G Building) and Table Rock Campuses, 541-245-7738

Veterans Services Mission Statement: Rogue Community College (RCC) Veterans Services Department provides a safe and professional environment for our student veterans, dependents, families, college community, and external partners by assisting students to achieve their education 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.

Veteran 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 Veteran Services website. The website will direct you to completing 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 Veteran Educational Benefits please visit Vets.gov at https://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 compliment 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, 541-245-7749

Rogue Community Colleges 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 G.I. Bill - Active Duty Program) or chapter 33 (Post-9/11 G.I. Bill), of title 38, United States Code, who lives in Oregon while attending a school located in Oregon (regardless of his or her 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 his/her 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 he or she remains 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 G.I. Bill benefits (38 U.S.C. § 3319) who lives in Oregon while attending a school located in Oregon (regardless of his or her 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 www.oregonvotes.org.

Resources

Activities calendar

www.roguecc.edu/Calendar

College events and activities may be included on the RCC calendar on the college website. Community members can submit event information that would be of interested to RCC students and staff through the online form. Go to www.roguecc.edu/calendar and select "Submit an Event." RCC employees add the details of the event and publish to calendar in their 25Live room reservation. Events can 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

- 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

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. Exhibits are juried and change regularly. The Art Department galleries also collaborate with a variety of community organizations and businesses on cultural events.

RCC/SOU Higher Education Center art exhibits

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. Call 800-809-0308 to access the voice assistance ATM locator.

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

Auto repair

S Building, Redwood Campus, 541-956-7175

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

Bookstores

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. 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, providing 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. 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

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

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

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

211 Info

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

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

24-hour crisis line: 541-479-9349 or 1-800-750-9278. 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, 541-552-8150

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 laser and color laser printers and image scanners.

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 in the following locations:

- 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://roguecc.blackboard.com

RO@roguecc.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 roguecc.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.roguecc.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 roguecc.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

The Student Center and Cafeteria on the Redwood Campus provides a selection of food and beverages. Hours are posted. Vending machines in the Student Center offer snack items after regular hours.

A small café operated by outside vendors 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, an espresso bar in the East Commons sells snack items. 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 offers student accident and illness plan insurance. RCC does not administer this plan. More information is available from Human Resources at 541-956-7329.

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

- 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

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

go.roguecc.edu/department/library-services

- Wiseman Center, Redwood Campus, 541-956-7152, Fax 541-471-3588
- Central Library, Riverside Campus, 205 South Central Ave., Medford, 541-245-7512, Fax 541-774-1046
- Learning Resource Center, Table Rock Campus, 541-245-7820, Fax 541-245-7975

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 materials online through the library catalog, which then may be delivered to any RCC campus of choice. The RCC Library also provides database access to thousands of online journals and e-books.

Every RCC Library branch has a least one large networked computer lab available for student, staff and faculty use. All computers provide access to the internet, email, word processors, spreadsheets and other computer applications. High-quality laser printing also is available. All RCC libraries offer wireless access to the internet and small-group study rooms.

Reserve book rooms provide short-term checkout of textbooks and videos on loan from instructors; special assignment materials such as cameras, anatomical models, and graphing calculators.

Books, journal articles, and other materials not owned by the RCC Library may be borrowed without charge from library collections throughout the country using an inter-library loan service.

Information services include drop-in reference assistance, ready reference by phone and email, and in-depth research consultation. Reference librarians also 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 breast-feeding 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.

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 and monitored by Medford parking enforcement. 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, F, H, and L buildings, Josephine Building, Rogue Building, Student Services Building, T Building, Wiseman Tutoring Center and U Building (Gym).
- Riverside Campus: A, B, C and G buildings, Central Library, and the RCC/SOU Higher Education Center.
- Table Rock Campus: first and second floors.
- Business Development Center.
- Illinois Valley Learning Center.

Security

www.roguecc.edu/Safety

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 local law enforcement for police services and on Rural and Metro Fire Department and Grants Pass Department of Public Safety 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 police services and the Medford Fire Department for fire safety services.

The Table Rock Campus has security officers on site when the campus is open for business Monday through Saturday.

TRC relies on the Jackson County Sheriff's Department for police services and Fire District 3 for fire safety services.

Emergencies

If an emergency exists:

- Call 911 without hesitation (dial 8+911 if calling from a college phone).
- Then call Security at 541-218-2930.

Emergency information is located in every RCC building. All information regarding emergency procedures and plans are available on the RCC Security website above.

Emergency phones

Black emergency phones are located on the Redwood Campus in buildings G, I and J. These phones allow the user to call either 911 or campus security. Black emergency phones are located in all RCC/SOU Higher Education Center classrooms.

Reporting crime

Crime victims, regardless of the severity the crime, are encouraged to report the incident to security. In an emergency, follow the above procedure (see Emergencies). Otherwise, victims or witnesses should call the security phone number. Crime reports and any follow-up investigation will be kept on file.

Further questions or concerns should be directed to security staff at 541-218-2930.

Vehicle emergencies

Students may call 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.

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.

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 the Counseling and Advising Department for assistance and referrals.

Testing centers

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.

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/AcademicSkills/Tutoring.asp

- 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, Y Building.
- Riverside Campus: B and G buildings and RCC/SOU Higher Education Center.
- Table Rock Campus: East Commons and construction entrance.

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

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 brochure 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

- 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 and study independently in a learning lab with assistance from qualified instructors. Students also may use the RCC learning centers for basic skills review prior to taking the college placement test.

General Educational Development (GED®)

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 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, and self-study with instruction is available on the Redwood Campus in Grants Pass and the Table Rock Campus in White City.

Students who are 16 or 17 years of age must present a referral for instruction or 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, literature and mathematics. Reading assessments in English or Spanish are required to ensure that students' skills are at secondary levels. Students who have reading skills lower than secondary level are referred to basic skills or ESL classes for basic skills review before entering the GED program.

GED® Testing

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 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.

English Language Acquisition (ELA)

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.

Destrezas Básicas para Adultos

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*

Los estudiantes que necesitan aprender lectura básica, escritura y matemáticas, prepararse para los exámenes de GED, o, aprender inglés pueden ewcibir asistencia a pueden recibir asistencia a través de programas de destrezas básicas. Hay un cargo nominal por los servicios.

Estudiantes nuevos y aquellos que estén de regreso al programa de destrezas básicas debe llamar a un centro de aprendizaje en su área para programar una orientación.

Además, los empleadores que quieran proporcionar entrenamiento de destrezas básicas para sus trabajadores pueden contratar los

servicios que están diseñados especialmente para sus lugares de trabajo. Llame a uno de los centros antes mencionados para obtener más información.

Los adultos que necesitan aprender lectura, escritura y matemáticas básicas pueden asistir a clases a medida para sus necesidades y el estudio de forma independiente en un laboratorio de aprendizaje con la ayuda de instructores calificados. Los estudiantes también pueden utilizar los centros de aprendizaje de RCC pare revisar los conocimientos básicos antes de tomar el examen de colocación.

General Educational Development (GED) en español

www.roguecc.edu/GED

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

La instrucción del GED cuesta $65 por término o trimestre. Preparación para el GED en Inglés está disponible en todos los campus. Preparación para el GED en español está disponible atreves de clases en aula en el campus de Riverside en el Learning Center, Edificio G, y el auto-estudio con instrucción parcial está disponible en el campus de Redwood en Grants Pass y en el Campus de Table Rock en White City.

Los estudiantes que tienen 16 ó 17 años de edad deberán presentar una remisión para la instrucción o la exención de la enseñanza obligatoria del distrito escolar en el que viven antes de inscribirse. Los estudiantes que son educados en casa, bajo los auspicios de Servicios Educativos del Distrito de Southern Oregon y que son 16 o 17 años de edad deben presentar una notificación acerca de la instrucción educativa en el hogar y una referencia de instrucción.

Las quatro partes del examen de GED cubren las habilidades estudios sociales, ciencias, literatura y matemáticas. Las evaluaciones de lectura en Inglés o Español están obligados a garantizar que las habilidades de los estudiantes se encuentran en niveles de preparatoria. Los estudiantes que tengan habilidades de lectura más bajos que el nivel de secundaria serán referidos a las clases de destrezas básicas o las clases de ESL para revisar los conocimientos básicos antes de entrar en el programa de GED.

Examen de GED

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 está basado en la computadora. Los candidatos pueden registrarse, reservar una hora de tomar el examen, y pagar por el examen por visitar GED.com o por llamar a 1-877-392-6433.

El examen consiste de quatro pruebas en total. Las quatro pruebas están administrados por $38 por cada prueba. (Hay que pagar la tarifa directamente a la agencia que administra el examen, Pearson Vue.) Hay dos centros de exámenes en que se puede tomar el examen del GED: uno está ubicado en el condado de Jackson (Jackson County) en el campus de Table Rock; el otro está ubicado en el condado de Josephine (Josephine County) en el campus de Redwood.

El examen que ahora está ofrecido es una serie nueva del examen de GED. Los estudiantes quienes empezaron partes del examen de GED antes del enero de 2014 y no recibieron sus GEDs necesitan empezar el proceso de tomar el examen de GED de nuevo. Antes del enero de 2014, el examen fue administrado por papel y lápiz. A partir de enero de 2014, los estudiantes necesitan pasar cada prueba del examen de GED en el examen nuevo basado en computadora.

Para una explicación de otros requisitos, visite el sitio web de GED: https://ged.com/. También se puede encontrar más información acerca del programa de GED que ofrece RCC en la página web http://www.roguecc.edu/GED/.

Adquisición del idioma inglés (ELA)

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*

Los estudiantes aprenden a hablar, leer, escribir y comprender inglés hablado en clases de ELA. También aprenden a usar las computadoras y software educativo con la ayuda de instructores calificados.

Servicios para los empleadores

Programa de ELA, Medford, 541-245-7556

Técnicas básicas y clases de inglés como segundo idioma puede ser adaptado a las necesidades específicas de los empresarios y sus empleados. El programa de destrezas básicas para adultos de RCC y el departamento de entrenamiento personalizado se acopian con los empleadores para satisfacer sus necesidades, diseñar un currículo, y proporcionar instrucción. Las clases se llevará a cabo en el lugar de trabajo del empleador o el empleado, o en uno de los campus de RCC.

Children on campus

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

Children 14 or younger are not permitted on campus unless directly supervised by a responsible adult. The responsible adult may be asked to remove any child or children who are being disruptive.

Exceptions to the above include students at RCC by invitation for special events or class field trips.

Copyright infringement

RCC complies with all laws relating to copyright materials. See RCC Administrative Procedures at 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.

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

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.

The following person has been designated to handle inquiries regarding the nondiscrimination policies: Director of Human Resources and Risk Management, Jamee Harrington, 541-956-7346, jharrington@roguecc.edu, Redwood Campus, M-2.

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

Satisfactory academic standing and progress

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 the Counseling and Advising Department. The letter will:

- Inform and explain academic status.
- Encourage the student to schedule an appointment with a Counseling and Advising Department 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 Department 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 Department chair, the Director of Enrollment Services, an instructor, a transcript evaluator, the committee secretary, and representatives from the Counseling and Advising Department 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 the Counseling and Advising Department.

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.

Student rights, freedoms and responsibilities

PREAMBLE

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 Advisers

- Student Clubs: Student clubs typically choose their own college adviser. Clubs chartered by ASGRCC must have an adviser 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 advisers 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 adviser 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 advisers 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 adviser. 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

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 harassment, 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.roguecc.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.roguecc.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 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@roguecc.edu • 541-245-7632
(To file a Title IX Compliant call 541-956-SAFE, email SafeTalk@roguecc.edu, or meet with a RCC Counselor)

Employee Deputy Title IX Coordinator
Wendy Jones
wjones@roguecc.edu • 541-956-7146

Title IX Coordinator
Curtis Sommerfeld
curt@roguecc.edu • 541-956-7238

ADA coordinator for students
Andrew Childress
achildress@roguecc.edu • 541-245-7692

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 the Counseling Department. Counselors are the only RCC employees who can offer confidentiality. All other employees are required to report incidents of alleged discrimination. Counselors can be reached by dialing 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 adviser.

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 advisers 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 adviser review as noted above. Student editors and managers, in consultation with their advisers, 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 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 waitlist 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 Student Code of Conduct

Complaints regarding alleged violation of the 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 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, 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 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 Code of Conduct have the right of final appeal in writing to the vice president, Student Services within seven (7) working days for review.

Within ten (10) working days of receiving the student appeal, the vice president, 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, 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 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 to:

9.3.2.1. Share information and documentation regarding the incident and 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: http://web.roguecc.edu/disability-services. On Redwood Campus, Building W (Library), 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 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.

Steps 1, 2 and 3 (if applicable) below must be completed before proceeding to Step 4. It is intended that alleged violations be resolved at any point in the process when the parties involved can agree on a resolution. All documentation submitted or created during the resolution process shall follow established filing procedures. Students with a grievance shall follow the procedures and time lines outlined below:

10.2 Procedure

Step 1: Direct Resolution

The student discusses the grievance with the College staff member who is directly involved and attempts to find resolution within a timely manner. The student may choose to be accompanied by a support person such as a counselor, an academic adviser, or an officer of the ASGRCC during this discussion. The student must state a proposed resolution.

RCC encourages face-to-face direct resolution of alleged grievances. This process – though

difficult – is often rewarding for both students and staff. A Student with a potential grievance will use face-to-face direct resolution unless the student is able to specifically articulate why face-to-face resolution is inappropriate for their grievance and a counselor agrees these reasons make face-to-face resolution inappropriate. If, after meeting with a RCC counselor, the counselor determines that attempting direct resolution in-person is not in the best interest of the student, direct resolution may be attempted in writing.

In these circumstances, working with a college counselor, the student will write a letter or memorandum to the College staff member outlining their grievance and proposed resolution. The College staff member will then respond in writing within seven (7) business days. If no resolution is reached at Step 1, the student moves to Step 2.

Step 2: Resolution with Department Chair or Immediate Supervisor

If the grievance is not resolved directly with the College staff member, the student discusses the grievance and seeks a resolution with the staff member's department chair (or immediate supervisor). The student may choose to be accompanied by a support person during these discussions. The student must state a proposed resolution.

Appropriate written documentation will be maintained by the department chair, (or immediate supervisor) and established filing procedures will be followed. If no resolution is reached at Step 2, the student moves to Step 3. If the staff member does not report to a dean, or if the dean has heard the student in the role of immediate supervisor, the student moves to Step 3.

Step 3: Resolution with Dean

If the issue is not resolved with the staff member's department chair or supervisor, the student may seek resolution with the supervising dean for the department. Appropriate written documentation will be maintained by the dean and approved filing procedures will be followed.

If no resolution is reached at Step 3, the student moves to Step 4.

Step 4: Resolution with Dean of Student Success

If the issue is not resolved by discussions in Step 1, 2, or 3 (if applicable), the student has ten (10) working days to request a Student Grievance form and information about filing a grievance from an RCC counselor. The signed and completed form shall be submitted to the dean, Student Success within five (5) working days after requesting the form from a counselor. The Student Grievance form requires a statement of proposed resolution of the grievance and a summary of prior actions taken.

Within seven (7) working days of receipt of the Student Grievance form, the dean, Student Success will contact the parties involved, provide them with a copy of the completed Student Grievance form, attempt to clarify the issue, and arrive at a mutually satisfactory resolution between student and staff. During the dean's investigation, the persons involved may include a representative or other support person with first-hand knowledge of the issue. If resolution is reached, the dean will summarize the resolution in writing for the student grievant and college employee and follow established filing procedures.

Step 5: Appeal Process

If resolution is not reached, the student has the right of final appeal of the issue to the vice president, Student Services. The final appeal process requires the student to prepare and deliver a written appeal request to the vice president within seven (7) working days after the dean, Student Success gives notice to the student of the result of the investigation. The written appeal request must include an explanation of why the issue remains unresolved and must provide the proposed remedy to the grievance.

Within ten (10) working days of receiving the student appeal, the vice president, Student Services will review the grievance, the investigation process, and the proposed resolutions. He or she may consult with the administrative team and/or the College President in the review process to assure consistency within RCC. The review may include, but not be limited to, an interview of the student grievant, college staff member and/or other involved parties. The vice president, Student Services will report the findings and conclusions to the student grievant, the college staff member(s) involved, and the dean, Student Success, with a written and signed document. Established filing procedures will be followed.

Drug- and Alcohol-Free Campus

The use of alcoholic beverages, marijuana, or marijuana products is prohibited. Certain exceptions may be allowed with prior written permission from the College President. The illegal use or misuse of drugs is prohibited on all RCC properties. This policy complies with the Drug-Free Schools and Campuses Regulations (EDGAR Part 86) and the Drug-Free Workplace Act (1990) mandating a drug-free campus, program, and biennial report.

Use of tobacco

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 sue of tobacco products by anyone under the age of 21 is prohibited by Oregon law.

General Education Program 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. They include:

- 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.

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 and 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 and 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 the Counseling and Advising Department 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 and 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 adviser 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 advisers 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, Criminology, Early Childhood Development, Elementary Education, Emerging Media and Digital Arts, Health and Physical Education, Human Services, Outdoor Adventure Leadership. RCC also has articulation agreements with Oregon Tech for these programs: Business Management-Entrepreneurship and Small Business Management, Computer and Embedded Systems Engineering Technology, Manufacturing and Engineering Technology, Information Technology and Health Informatics, Information Technology, 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.

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.
- Computer Support Technician: Health Care Informatics Option.
- Criminal Justice.
- Diesel Technology.
- Early Childhood Education.
- Electronics Technology.
- Family Support Services.
- Fire Science.
- Graphic Design.
- Human Services.
- Industrial Welding Technology.
- Manufacturing and 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 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)

Courses that meet General Education Requirements

General Education requirements	Certificate	Associate of Applied Science	Associate of General Studies	Associate of Arts Oregon Transfer (ASOT)
CREDITS	Varies by program: 12 to 108 credits.	90-108 credits.	90 credits.	90 credits.
Purpose	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
Writing	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.
Speech		3-4 credits: SP100, SP111, SP115 or SP218.	3-4 credits/1 course: SP100, SP111, SP115, SP218.	4 credits/1 course: SP111, SP115, SP218.
Alternatives to Writing and Speech (listed above)	N/A	7-8 credits writing: WR115 and WR121 OR BT113 and BT114.		
Math	4 credits/1 course: BT160, MTH63, MTH60 or higher level math.	4 credits/1 course: BT160, MTH63, MTH60 or higher level math.	4-5 credits/1 course: Math 105 or higher.	4-5 credits/1 course: MTH105 or higher.
Human Relations	3 credits: PSY101 or BT101.	3 credits: PSY101 or BT101.	3 credits: PSY101 or BT101.	
LIB127	N/A	1 credit/course.	1 credit/course.	
Demonstrated computer literacy	0-4 credits: CS120 or documented proficiency.	0-4 credits: CS120 or documented proficiency.	0-4 credits: CS120 or documented proficiency.	
Arts & Letters (Humanities)			3-4 credits / no more than 9 credits.	9-12 credits / three courses from two different disciplines.
Social Science			3-4 credits/ no more than 9 credits.	12-16 credits/ four courses from two or more disciplines.
Science/Computer Science			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.
Cultural Literacy				3-4 credits/1 course
1st Aid/CPR/HPER		1-3 credits.	3-4 credits/ no more than 9 credits.	3 credits (one or more classes).
CWE/Practicum/Clinical		3 credits.		
Electives/Content Area	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/1 course: SP100, SP111, SP115, SP218.	3-4 credits/1 course: SP100, SP111, SP115, SP218.	4 credits/1 course: SP111, SP115, SP218.
Alternatives to Writing and Speech (listed above)			
Math	12-14 credits / 3 courses including one statistics course: (students should consult university-specific information to determine additional math requirements).	10 credits: MTH251 and MTH252.	4-5 credits/1 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/1 course.	3-4 credits/1 course.	3-4 credits/1 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.
Commercial Truck Driving.
Manufacturing/Engineering Technology: Computer Numerical Control (CNC) Technician.
Dental Assistant.
Diesel Specialist.
Early Childhood Education.
Electronics Technician.
Emergency Medical Service.
Exercise Specialist.
Family Support Services.
Fire Officer.
Fire Prevention/Investigation.
Graphic Design.
Health Care Informatics Assistant.
High Technology Studies.
Industrial Welding Technology.
Massage Therapy.
Mechatronics.
Medical Administrative Assistant.
Medical Assistant.
Medical Coding Specialist.
Microcontroller Systems Technician.
Pharmacy Technician.
Practical Nursing.
Renewable Energy Technician.
Sterile Processing Technician.

Apprenticeships

RCC offers Apprenticeship programs in various areas including Electrician, and Industrial Mechanics and Maintenance. For more information, contact the Apprenticeship department at 541-245-7912.

Career Pathways

www.roguecc.edu/Pathways

- Redwood Campus, 541-956-7192.
- Riverside Campus, 541-245-7552.
- Table Rock Campus, 541-245-7863.

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.
Early Childhood Education (Basic).
Early Childhood Education (Intermediate).
Emergency Medical Services: Emergency Medical Technician.
Family Support Services.
Fire Science: Firefighter.
Graphic Design: Adobe® Applications Technician.
High Technology Studies: Plant Systems Technician.
Industrial Welding: Welder's Helper.
Massage Therapy: Entry-Level Therapist.
Manufacturing/Engineering Technology: Computer Numerical Control (CNC) Technician.
Mechatronics: Maintenance 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.

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, or AS) preparation; industry experience, workforce skills, and degree upgrades; career seekers and changers; and 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 53. 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 associate 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 a counselor 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 advisers for additional information.

Practicum and 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

Career Pathways Roadmaps

www.roguecc.edu/Programs/CareerPathways/

GETTING STARTED

Start now www.roguecc.edu/Pathways

RCC CAREER PATHWAYS CERTIFICATE

Career Pathways Certificate (CPC)
Program Title
Can complete this in less than one year.
Click on Graduation Guide (PDF) for course listing and prerequisites.*(CPC ranges from 12 to 44 credits*

RCC CERTIFICATE OF COMPLETION

Certificate of Completion Program Title
Can complete this in about one year.
Click on Graduation Guide (PDF) for course listing and prerequisites. *(Certificate credit ranges vary. See program for details.)*

RCC ASSOCIATE DEGREE

Associate's Degree Program Title
Can complete this in two years.
Click on Graduation Guide (PDF) for course listing and prerequisites. *(Degree ranges from 90 to 108 credits)*

Associate of Applied Science (AAS) degrees – designed for employment in career and technical occupations.

Associate of Science or Oregon transfer degrees (AS, AAOT, ASOT) – designed for transfer to an Oregon college or university in a specific program

BACHELOR DEGREE TRANSFER OPTIONS

RCC students can transfer to an Oregon university to finish a bachelor's degree through one of RCC's articulated degree programs or on their own. When there is an articulation agreement between RCC and an institution, you will see the degree and a link to that institution.

If there are not any current articulations, you might see other opportunities for educational advancement because some credits may transfer. If not, you will be given general transfer information: RCC's Transfer Center, Oregon University System, Career Options, and Map of Post Secondary Institutions in Oregon.

RELATED GRADUATE DEGREE OPTIONS

Once a student completes a bachelor's degree, they can apply to enter a master's or a doctorate degree program

- Master of Degree Title: Name of Institution
- Doctorate Degree Title: Name of Institution

AdviserY COMMITTEE

The Advisery Committee is a list of community members (companies and/or individuals) that work together to express the current needs of the industry helping the college conduct program planning and prepare students to enter the workforce.

FOR MORE INFORMATION

Contact the Counseling and Advising Department
Grants Pass. 541-956-7192
Medford 541-245-7552
White City. 541-245-7863
TRS (Oregon Telecom Relay Service) 711

CPC LEVEL JOBS AND WAGES

Broad Industry Information (Linked to Occupational Outlook Handbook (OOH) website):
- **Job Titles** (that match education level) Linked to the Oregon Labor Market Information System (OLMIS) website

CERTIFICATE LEVEL JOBS AND WAGES

This education gives workers a competitive edge in the above mentioned jobs and the following options:
- **Job Titles** (that match education level) Linked to the Oregon Labor Market Information System (OLMIS) website

ASSOCIATE LEVEL JOBS AND WAGES

This education gives workers a competitive edge in the above mentioned jobs and the following options:
- **Job Titles** (that match education level) Linked to the Oregon Labor Market Information System (OLMIS) website

BACHELOR LEVEL JOBS AND WAGES

This education gives workers a competitive edge in the above mentioned jobs and the following options:
- **Job Titles** (that match education level) Linked to the Oregon Labor Market Information System (OLMIS) website

GRADUATE LEVEL JOBS AND WAGES

This education gives workers a competitive edge in the above mentioned jobs and the following options:
- **Job Titles** (that match education level) Linked to the Oregon Labor Market Information System (OLMIS) website

Approved electives

The following courses may be used to fulfill AAS, AS, 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 adviser 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

COMM201 Media and Society

COMM225 Small Group Communication and Problem Solving

COMM229 Oral Interpretation

COMM237 Communication and Gender *

COMM270 Argument and Debate

ENG104, 105, 106 Introduction to Literature

ENG107, 108, 109 World Literature *

ENG201, 202, 203 Shakespeare

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 *

MUS101 Music Fundamentals

MUS105 Music Appreciation

MUS108 Music in World Cultures

MUS111, 112, 113 Music Theory and Aural Skills

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

SPAN201, 202, 203 Second Year Spanish

TA141, 142, 143 Fundamentals of Acting

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 I. Substantive Law and Liability

CJ221 II. 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 and Latino Historical Experience * **

IS111 Introduction to International Studies

PS201, 202, 203 U.S. Government

PSY101 Psychology of Human Relations

PSY119 Psychology of Personal Growth

PSY201, 202 General Psychology

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/out Lab

B1101, 102, 103 Introduction to Biology (non-majors) w/ Lab

BI121, 122 Elementary Anatomy/Physiology w/Lab

BI211, 212, 213 Principles of Biology w/Lab

BI231, 232, 233 Anatomy and Physiology w/Lab

BI234 Microbiology w/Lab

CHEM104 Introductory Chemistry w/Lab and recitation

CHEM105, 106 Introductory Chemistry w/Lab

CHEM221, 222, 223 General Chemistry w/Lab

ENV111 Introduction to Environmental Science w/out lab

G100 Fundamentals of Geology w/out Lab

G101, 102, 103 Introduction to Geology 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

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.

Transferring

About transferring

www.roguecc.edu/Transfer

- Counseling and Advising Department, 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 school.

Transfer advising

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

Rogue Community College has developed transfer agreements (articulations), and course equivalences with Oregon Tech, Southern Oregon University, Portland State University, University of Alaska/Fairbanks, University of Phoenix, and Western Governor's University. The college to 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 transitions to the four-year universities.

University residency requirements

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

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.

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 advisers 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 adviser 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 advisers in these articulated programs to ensure proper academic planning.

- Business (articulated with SOU and Oregon Tech).
- Computer and Embedded Systems Engineering Technology (articulated with Oregon Tech).
- Criminology (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).
- Engineering (Civil, Electrical and Renewable, or Mechanical)* (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 advisers 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 advisers 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

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, and Health Sciences 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.

Engineering transfer

A new program - Associate of Science-Engineering - transfer to Oregon Tech in either Civil, Electrical and Renewable Energy, or Mechanical Engineering will be available academic year 2018-19. Direct transfer, based on Course Equivalences, is available for engineering students interested in Portland State University. For more information, contact Dusty Rittenbach, RCC Science faculty, at jrittenbach@roguecc.edu.

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 adviser, students may 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 and 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 though the SOU Student Health Center. For more information about joint enrollment or transfer planning, call the Counseling and Advising Department at 541-245-7552, or contact the SOU Office of Admissions at 541-552- 6411, toll free at (800) 482-7672, or via email at 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 cho-

sen as program electives where possible. See an adviser for more information or visit 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 the RCC 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/roguecc

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 Zicciah Topping, University of Phoenix Community Development Manager, at zicciah.topping@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.

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	AAOT or Direct	
Business Administration	541-956-7066 or 541-245-7527	ASOT, AS or Direct	Southern Oregon University
Business Management (Entrepreneurial or 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	ASOT 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	
Criminology	541-245-7965	AS or Direct	Southern Oregon University
Dental Hygiene	541-245-7750	AGS or Direct	Oregon Tech
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 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
Engineering (new)	541-245-7902	AS or Direct	Oregon Tech (AS) and Portland State (direct transfer)
English/Literature	541-956-7140 or 541-245-7504	AAOT, AS or Direct	
Environmental Science and Forestry	541-956-7066 or 541-245-7527	AAOT or Direct	
Geology	541-956-7066 or 541-245-7527	AAOT or Direct	
Health and Physical Education or Exercise Science	541-956-7504 or 541-245-7504	AS, AAOT or Direct	Southern Oregon University
Health Informatics	541-956-7841 or 541-245-7841	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 (new)	541-956-7213 or 541-245-7527	AS or Direct	Oregon Tech
Manufacturing and Engineering Technology	541-245-7902	AAS, AS	Oregon Tech
Mathematics	541-956-7213 or 541-245-7527	AAOT or Direct	
Music	541-956-7140 or 541-956-7054	AAOT or Direct	
Nursing (OHSU)	541-956-7308	AGS, AAS or Direct	
Outdoor Adventure Leadership	541-956-7140 or 541-245-7506	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-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	
Pre-Physical Therapy	541-956-7066 or 541-245-7527	AAOT, AGS or Direct	
Psychology	541-956-7066 or 541-245-7504	AAOT or Direct	Oregon Tech
Sociology and 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

Programs of Study

Programs	Award	Credit length*
See the AAOT Graduation Guide on page 64 for additional information.	Associate of Arts Oregon Transfer	Two year transfer degree
See the AGS Graduation Guide on page 66 for additional information.	Associate of General Studies	Two year degree
See the OTM Graduation Guide on page 162 for additional information.	Oregon Transfer Module	One year degree
Allied Health		
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
Automotive		
Automotive Technology	Associate of Applied Science	Two year degree
Automotive Specialist	Certificate	One year
Business Technology		
Business Technology	Associate of Applied Science	Two year degree
Business Management, Entrepreneurship and 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 and Information Specialist	Career Pathway Certificate	Less than one year
Customer Service	Career Pathway Certificate	Less than one year
Retail Sales and Service	Career Pathway Certificate	Less than one year
Small Business Management	Career Pathway Certificate	Less than one year
Computer Science		
Computer Support Technician	Associate of Applied Science	Two year degree
Computer Support Technician: Healthcare Informatics Option	Associate of Applied Science	Two year degree
Information Technology (New)	Associate of Science (Transfer to Oregon Tech)	Two year transfer 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
Healthcare Informatics Assistant	Certificate	One year
Computer Support Technician: Computer Software Specialist	Career Pathway Certificate	Less than one year
Criminal Justice		
Criminal Justice	Associate of Applied Science	Two year degree
Criminology	Associate of Science (Transfer to SOU)	Two year transfer degree
Dental Assisting		
Dental Assisting	Certificate	One year
Diesel Technology		
Diesel Technology	Associate of Applied Science	Two year degree
Diesel Specialist	Certificate	One year
Early Childhood Education		
Early Childhood Ed	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*
Electronics Technology		
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
Emergency Services		
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
Engineering		
Engineering	Associate of Science (Transfer to Oregon Tech)	Two year degree
Family Support Services		
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
Fire Science		
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
Graphic Design		
Graphic Design	Associate of Applied Science	Two year degree
Graphic Design	Certificate	One year
Graphic Design: Adobe® Applications Technician	Career Pathway Certificate	Less than one year
Health and Physical Education		
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
Exercise Specialist	Certificate	Less than one year
Manufacturing Technology		
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
Massage Therapy		
Massage Therapy	Certificate	One year
Massage Therapy: Entry Level Therapist	Career Pathway Certificate	Less than one year
Mechatronics		
Mechatronics	Associate of Applied Science	Two year degree
Mechatronics	Certificate	Less than one year
Mechatronics	Career Pathway Certificate	Less than one year
Nursing		
Nursing	Associate of Applied Science	Two year degree
Practical Nursing	Certificate	Less than one year
Social Science		
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
Welding		
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
	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
	Biology
	Chemistry
	Education–Elementary
	English and Literature
	Environmental Science and Forestry Interest
	Geology
	Health, Exercise Specialist and Physical Education
	History
	Math
	Music
	Physics
	Psychology
	Sociology and 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/), 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.

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. 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 [1]

Course No.	Course Title	Credits
CS___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [2]	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
Total Prerequisite Credits		**15-19**

Required Courses

Course No.	Course Title	Credits
HE208	HIV and Infectious Diseases [3]	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 [4]	7
HS268	Co-occurring Disorders: Introductory Theory and Counseling	3
PSY219	Introduction to Abnormal Psychology [5]	4
PSY231	Human Sexuality or HS204 Counseling Chemically Dependent Client II or SOC230 Introduction to Gerontology or PSY228 Introduction to Positive Psychology	3-4
SOC213	Race and Ethnicity in the U.S.	4
SOC243	Drugs, Crime and Addiction	4
TOTAL PROGRAM CREDITS		**51-52**

[1] Required for graduation. May include additional classes based on placement test scores.

[2] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science adviser to help determine placement.

[3] May be completed fall or spring term.

[4] May be spread out over second and third terms.

[5] Requires prerequisites of PSY201 and PSY202.

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@roguecc.edu
Web address ..... 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.

RCC strongly recommends that students consider transferring to the University of Oregon or Portland State University before their sophomore year. There are many architecture courses required of sophomore students that 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
ART115*	Basic Design I	3
ART116*	Basic Design II	3
ART204	Art History I	4
ART205	Art History II	4
ART206	Art History III	4
MTH111	College Algebra	4
MTH112	Elementary Functions	4
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
WR121	English Composition I	4
WR122	English Composition II	4

*University-recommended courses. Check with the specific transfer school 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, or 255	Introduction to Ceramics I, II, III	3	Elective
ART276, 277, or 278	Sculpture I, II, III	3	Elective
ART281, 282, or 283	Painting I, II, III	3	Elective
MTH111	College Algebra	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 such as the Oregon College of Art and Craft in Portland, 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 I (Black and White Media)	3
ART253	Ceramics I	3
ART257	Beginning Jewelry and Metalsmithing	3
ART276	Sculpture I or ART291 Welded Steel Sculpture	3
ART281	Painting I	3
ART294	Watercolor I	3
	Advanced studio courses (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, ART296/295 Watercolor II, III, ART238/239 Illustration II, III)	9-12
CS120	Concepts in Computing I with lab	4
GD120	Digital Graphic Design I	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 pur-

poses. 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.

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.

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 level as determined by placement test scores. 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
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 [1]	4
SP218	Interpersonal Communication	4
Mathematics (minimum one course required; prerequisite: MTH95 or MTH96)		
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
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
PE291	Life Guard Training	2

Discipline Studies Requirements

Course No.	Course Title	Credits
Humanities Requirement (minimum three courses from the following list chosen from at least two disciplines) [4]		
ART204,205,206	History of Art I, II, III 1 (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 [1]	4
COMM270	Argumentation and Debate	3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature [1]	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 [1]	4
ENG260	Introduction to Women Writers [1]	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities [1]	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures [1]	4-4-4-4-4
IS110	Introduction to International Studies I [1]	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 1	4
REL243	Nature, Religion and Ecology 1	4
SP100	Basic Communication	3
SP111	Fundamentals of Public Speaking [4]	4
SP115	Intercultural Communication 1, [4]	4
SP218	Interpersonal Communication [4]	4
SPAN201,202,203	Second Year Spanish I, II, III [1, 3]	4-4-4
Social Science Requirement (at least four courses from the following list chosen from at least two disciplines)		
AANTH110	Introduction to Cultural Anthropology [1]	4
ANTH150	Introduction to Archaeology	4
CJ100	Foundations and Ethics in Criminal Justice	4
CJ214	Crime, Justice and Diversity [1]	4
ECON201	Principles of Microeconomics	4
ECON202	Principles of Macroeconomics	4
GEOG110	Introduction to Cultural/Human Geography [1]	3
GEOG120	World Regional Geography	3
HST104	World Civilizations: Prehistory - Middle Ages [1]	4
HST105	World Civilizations: Byzantium - Present [1]	4
HST201	U.S. History through Reconstruction [1]	4
HST202	U.S. History: Post-Reconstruction - Present [1]	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 [1]	4-4
SOC213	Race and Ethnicity in the U.S. [1]	4
SOC218	Sociology of Gender [1]	3
SOC221/CJ201	Juvenile Delinquency	4
SOC225	Social Problems and Solutions [1]	4
SOC228	Environment and Society [1]	4
SOC235	The Chicano/Latino Historical Experience [1]	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 I with lab and recitation	5
CHEM105,106	Introductory Chemistry II, III with lab	4-4
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
CS161,162	Computer Science I, II	4-4
CS233u	Advanced C++ Programming	4
CS260	Data Structures I	4
MTH105	Introduction to Contemporary Mathematics [5]	4
MTH111	College Algebra [5]	4
MTH112	Elementary Functions [5]	4
MTH211,212,213	Fundamentals Elementary Math I, II, III [5]	5-5-5
MTH243	Probability and Statistics [5]	4
MTH244	Inferential Statistics [5]	4
MTH251,252,253	Calculus I, II, III [5]	5-5-5
MTH254	Vector Calculus [5]	5
MTH256	Differential Equations [5]	5
MTH261	Linear Algebra [5]	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

[1] Meets cultural literacy criteria (one course required).

[2] 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.

[3] 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.

[4] May be taken if not used to fulfill oral communication foundational requirement.

[5] 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@roguecc.edu
Web address . . . . . www.roguecc.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.roguecc.edu/general-ed-outcomes.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
LIB127	Introduction to Academic Research	1
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
SP100	Basic Communication [2] or SP111 Fundamentals of Public Speaking or SP115 Introduction to Intercultural Communication or SP218 Interpersonal Communication	3-4
MTH105	Introduction to Contemporary Math [3] or MTH111 College Algebra or MTH243 Probability and Statistics with lab [3] or MTH211 Fundamentals of Elementary Math or MTH251 Calculus I (Differential) with lab or higher level math	4-5
WR121	English Composition I	4
Total General Education Credits		**15-21**

Core Requirements

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

Course No.	Course Title	Credits
—	Art/Humanities	3-9
—	Science/Computer Science (one lab science is required)	4-9
—	Social Science	3-9
—	Physical Education/Health	3-9
Minimum Total Required Core Credits		**18**

Other Requirements

Course No.	Course Title	Credits
—	Lower division transfer and career and technical courses	51-57
Total Other Credits		**51-57**
TOTAL PROGRAM CREDITS		**90**

[1] Students are required to take an approved 3-4 credit computer science class, CS120 or above or otherwise document proficiency. Successful completion of CS120 within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] 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.

[3] 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@roguecc.edu
Web address . . . . . www.roguecc.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.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 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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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
RD90	College Reading 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
CS___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
WR121	English Composition I	4
HE112	Emergency First Aid	1
Total General Education Requirements		**12-16**

Technical Requirements

Course No.	Course Title	Credits
First Term		
AM120	Automotive Maintenance and Trades Practices	6
AM122	Gasoline Engines Rebuild	7
		13
Second Term		
AM111	Electricity for Automotive Technicians	7
AM131	Engine Dynamics and Diagnosis	7
		14
Third Term		
AM141	Manual Transmissions and Axles	6
AM151	Automotive Brake Systems	6
		12
Fourth Term (Summer)		
AM190	Automotive Repair Lab I	4
		4
Total Technical Credits		**43**
TOTAL PROGRAM CREDITS		**55-59**

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science advisor to help determine placement.

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@roguecc.edu
Web address ..... www.roguecc.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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by the placement test scores. 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
RD90	College Reading 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
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
CS___	Approved 3-4 credit computer science class, CS120 or above, or documented computer proficiency [1]	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 WR122 English Composition II	3-4
WR121	English Composition I	4
Total General Education Credits		**16-21**

First Year Technical Requirements

Course No.	Course Title	Credits
First Term		
AM120	Automotive Maintenance and Trades Practices	6
AM122	Gasoline Engines Rebuild	7
		13
Second Term		
AM111	Electricity for Automotive Technicians	7
AM131	Engine Dynamics and Diagnosis	7
		14
Third Term		
AM141	Manual Transmissions and Transaxles	6
AM151	Automotive Brake Systems	6
		12
Fourth Term (Summer)		
AM190	Automotive Repair Lab I [2]	4
AM270	Air Conditioning for Automotive Technicians	5
		9
Total First Year Credits		**48**

Second Year Technical Requirements [3]

Course No.	Course Title	Credits
Fifth Term		
AM160	Automotive Suspension and Steering Systems	6
AM232	Computerized Engine Management Systems	7
		13
Sixth Term		
AM233	Advanced Automotive Computer Systems	7
AM242	Automatic Transmissions and Transaxles	7
		14
Seventh Term		
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 [2]	4
		10-11
Total Second Year Credits		**37-38**
TOTAL PROGRAM CREDITS		**101-107**

Approved Program Electives

Course No.	Course Title	Credits
AM199	Selected Topic Workshop	1-3

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] Can be taken anytime during the program with permission of adviser.

[3] 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@roguecc.edu
Web address . . . . . www.roguecc.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.roguecc.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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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___	Approved 3-4 credit computer science class, CS120 or above, or documented computer proficiency [1]	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
Total Prerequisite Credits		**0-16**

Required Courses

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
BI100SB	Biology of Human Body Systems [2]	3
CG155	Exploring Careers in Health Care [3] or PSY101 Psychology of Human Relations or BT101 Human Relations in Organizations	3
HCI120	Introduction to Health Care Industry [3]	3
	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	3-4
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition	3-4
___	Approved specialty track electives	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

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 [2, 4] (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 [4]	2
MT101	Asian Bodywork I [4]	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
CS125SS	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

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] 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.

[3] Corequisite: WR115.

[4] 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@roguecc.edu
Web address . . . . . .www.roguecc.edu/alliedhealth
TTY . . . . . Oregon Telecom Relay Service, 711

Biology 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 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	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
MTH243	Probability and Statistics	4	Math
MTH251	Calculus I	5	Math
MTH252	Calculus II	5	Math
PH201	General Physics I with lab and recitation	5	Science
PH202	General Physics II with lab and recitation	5	Science
PH203	General Physics III with lab and recitation	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 Institute of Technology	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 take the college placement test to determine skill level and readiness indicated by test scores. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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
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 [1]	3
SP111	Fundamentals of Public Speaking	4
SP115	Intercultural Communication [1, 2]	4
SP218	Interpersonal Communication	4
Mathematics (three courses required. Students should consult university-specific information to determine any additional mathematics requirements)		**12-14**
MTH243	Probability and Statistics	4
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
Distribution Requirements (must include one course from any discipline that meets the statewide criteria for cultural literacy – see catalog for details)		**38-48**

Humanities [3] (9-12 credits)

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
CHEM104,105,106	Introductory Chemistry I, II, III with lab and recitation	5-5-5
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
GS105	Physical Science: Chemistry 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 [4]	4
BA211	Financial Accounting I	4
BA212	Financial Accounting II [5]	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

[1] 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.

[2] Meets cultural literacy criteria (one course required). See catalog for additional courses that meet the criteria.

[3] 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 profi¬ciency in a world language regardless of when they graduated from high school or equivalency program.

[4] Students who have completed BA101 as a 3 credit course have met this requirement.

[5] 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 or rvcbusiness@roguecc.edu
Web address . . . . . www.roguecc.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.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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. Students are also required to complete any prerequisites listed. 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.

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__	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency	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
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 [1]	4
BT114	Business English II [1]	4
BT160	Business Math	4
BT178	Customer Service	3
CS125WW	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 [2]	4
BA213	Managerial Accounting	4
BA228	Computer Accounting Applications	2
		13

Administrative Support Specialty Track

Course No.	Course Title	Credits
BA214	Business Communications	4
BT111	Conflict Management	2
BT105	Business Ethics	3
——	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 [2]	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 CS125 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

[1] 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.

[2] Students who completed BA211 at RCC prior to July 1, 2017, will have met this requirement.

For more information contact the Business Technology Department:

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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 two- to 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.

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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. Students are also required to complete any prerequisites listed. 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.

Customer Service — Career Pathways Certificate (29 credits)
- Cashier [1]
- Customer service representative [1]

Retail Sales and Service — Career Pathways Certificate (32 credits)
- Counter and rental clerk [1]
- Retail salesperson [1]
- Stock clerk and order filler [1]

Business and Information Specialist — Career Pathways Certificate (31 credits)
- Call center operator [1]
- File clerk [1]
- General office clerk [1]
- Office machine operator [1]
- Receptionist and information clerk [1]

Small Business Management — Career Pathways Certificate (40 credits)
- Small business manager [1]
- Retail sales supervisor [1]

Business Assistant, Certificate of Completion (50-54 credits),
Assistant Manager Specialty Track
- Supervisor [1]
- Retail manager [1]
- Assistant manager [1]

Administrative Support Specialty Track
- Human resources assistant [1]
- Office and Administrative support worker [1]
- Secretary [1]
- Telemarketer [1]

Accounting Assistant Specialty Track
- Accountant/bookkeeper [1]
- Payroll and time keeper clerk [1]

Business Technology, Associate of Applied Science (AAS) (91-95 credits)
- Department manager [1]
- Office manager [1]

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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__	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency	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 [1]	4
BT101	Human Relations in Organizations	3
BT111	Conflict Management	2
BT113	Business English I [2]	4
BT114	Business English II [2]	4
BT160	Business Math	4
BT178	Customer Service	3
CS125WW	Word Processing Applications	3
TOTAL PROGRAM CREDITS		**31**

[1] 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.

[2] 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:

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Web address . . . . . 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 two- to 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.

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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. Students are also required to complete any prerequisites listed. 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.

Customer Service — Career Pathways Certificate (29 credits)
- Cashier [1]
- Customer service representative [1]

Retail Sales and Service — Career Pathways Certificate (32 credits)
- Counter and rental clerk [1]
- Retail salesperson [1]
- Stock clerk and order filler [1]

Business and Information Specialist — Career Pathways Certificate (31 credits)
- Call center operator [1]
- File clerk [1]
- General office clerk [1]
- Office machine operator [1]
- Receptionist and information clerk [1]

Small Business Management — Career Pathways Certificate (40 credits)
- Small business manager [1]
- Retail sales supervisor [1]

Business Assistant, Certificate of Completion (50-54 credits),
Assistant Manager Specialty Track
- Supervisor [1]
- Retail manager [1]
- Assistant manager [1]

Administrative Support Specialty Track
- Human resources assistant [1]
- Office and Administrative support worker [1]
- Secretary [1]
- Telemarketer [1]

Accounting Assistant Specialty Track
- Accountant/bookkeeper [1]
- Payroll and time keeper clerk [1]

Business Technology, Associate of Applied Science (AAS) (91-95 credits)
- Department manager [1]
- Office manager [1]

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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___	Approved 3-4 credit computer science class, CS120 or above, or documented computer proficiency	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
BT101	Human Relations in Organizations	3
BT105	Business Ethics	3
BT113	Business English I [1]	4
BT114	Business English II [1]	4
BT160	Business Math	4
BT178	Customer Service	3
TOTAL PROGRAM CREDITS		**29**

[1] 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:

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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.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

Studentsare required to take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. Students are also required to complete any prerequisites listed. 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.

Customer Service — Career Pathways Certificate (29 credits)
- Cashier [1]
- Customer service representative [1]

Retail Sales and Service — Career Pathways Certificate (32 credits)
- Counter and rental clerk [1]
- Retail salesperson [1]
- Stock clerk and order filler [1]

Business and Information Specialist — Career Pathways Certificate (31 credits)
- Call center operator [1]
- File clerk [1]
- General office clerk [1]
- Office machine operator [1]
- Receptionist and information clerk [1]

Small Business Management — Career Pathways Certificate (40 credits)
- Small business manager [1]
- Retail sales supervisor [1]

Business Assistant, Certificate of Completion (50-54 credits), Assistant Manager Specialty Track
- Supervisor [1]
- Retail manager [1]
- Assistant manager [1]

Administrative Support Specialty Track
- Human resources assistant [1]
- Office and Administrative support worker [1]
- Secretary [1]
- Telemarketer [1]

Accounting Assistant Specialty Track
- Accountant/bookkeeper [1]
- Payroll and time keeper clerk [1]

Business Technology, Associate of Applied Science (AAS) (91-95 credits)
- Department manager [1]
- Office manager [1]

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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__	Approved 3-4 credit computer science class, CS120 or above, or documented computer proficiency	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 [1]	4
BT114	Business English II [1]	4
BT160	Business Math	4
BT178	Customer Service	3
TOTAL REQUIRED CREDITS		**32**

[1] 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:

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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.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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. Students are also required to complete any prerequisites listed. 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.

Customer Service — Career Pathways Certificate (29 credits)
- Cashier [1]
- Customer service representative [1]

Retail Sales and Service — Career Pathways Certificate (32 credits)
- Counter and rental clerk [1]
- Retail salesperson [1]
- Stock clerk and order filler [1]

Business and Information Specialist — Career Pathways Certificate (31 credits)
- Call center operator [1]
- File clerk [1]
- General office clerk [1]
- Office machine operator [1]
- Receptionist and information clerk [1]

Small Business Management — Career Pathways Certificate (40 credits)
- Small business manager [1]
- Retail sales supervisor [1]

Business Assistant, Certificate of Completion (50-54 credits),
Assistant Manager Specialty Track
- Supervisor [1]
- Retail manager [1]
- Assistant manager [1]

Administrative Support Specialty Track
- Human resources assistant [1]
- Office and Administrative support worker [1]
- Secretary [1]
- Telemarketer [1]

Accounting Assistant Specialty Track
- Accountant/bookkeeper [1]
- Payroll and time keeper clerk [1]

Business Technology, Associate of Applied Science (AAS) (91-95 credits)
- Department manager [1]
- Office manager [1]

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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___	Approved 3-4 credit computer science class, CS120 or above, or documented computer proficiency	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
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**

[1] 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@roguecc.edu or rvcbusiness@roguecc.edu
Web address . . . . . www.roguecc.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 51 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.

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 take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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 [1]	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
Total Prerequisite Credits		**0-15**

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
PSY201	General Psychology I	4
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I [2]	4
WR122	English Composition II [2]	4
WR227	Technical Writing	4
	Approved humanities electives [3]	6-8
	Approved lab science elective [4]	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 [5]	4
BA213	Managerial Accounting	4
BA223	Principles of Marketing	3
BA224	Human Resource Management	3
BA226	Business Law	4
BA285	Advanced Business Applications: Excel [6]	4
CS125DB	Data Base Management Systems	3
ECON201	Microeconomics	4
ECON202	Macroeconomics	4

Total Core Credits	**51**
TOTAL PROGRAM CREDITS	**98-101**

[1] Required for graduation.

[2] 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
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

[5] Students who completed BA211 at RCC prior to July 1, 2017, will have met this requirement.

[6] 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.

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 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@roguecc.edu or rvcbusiness@roguecc.edu
Web address . . . . . www.roguecc.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 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 placement test scores. Students entering the program must successfully complete any prerequisites listed. 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 require¬ments. 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.

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__	Approved 3-4 credit computer science class, CS120 or above, or documented computer proficiency	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 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 [1]	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
CS125WW	Word Processing Applications (Word)	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
ECON115	Introduction to Economics	3
LIB127	Introduction to Academic Research	1
SP111	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 [2]	15-16
TOTAL BUSINESS TECHNOLOGY PROGRAM CREDITS		**91-95**

Required Courses – Accounting Option

Course No.	Course Title	Credit
BA177	Payroll and Tax Procedures	3
BA228	Computer Accounting Applications	2
BA213	Managerial Accounting	4
——	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 CS125 applications course (except those taken to fulfill core requirements)	1-6
ECON201	Introduction to Microeconomics	4
ECON202	Introduction to Macroeconomics	4
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 2-8 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@roguecc.edu or rvcbusiness@roguecc.edu
Web address . . . . . www.roguecc.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 BA201 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 take the college placement test to determine skill level and readiness indicated by test scores. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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
RD90	College Reading 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 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	
	SP218 Interpersonal Communication or	
	COMM225 Small Group Communication	4
Mathematics		**4**
MTH243	Probability and Statistics w/lab	4

Distribution/Explorations Requirements 31-38

Humanities [1] 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
ENG201,203	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 courses 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 I with lab and recitation	5

CHEM105,106	Introductory Chemistry II, III with lab	4-4
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CS195	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**

[1] 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.

[2] 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 or rvcbusiness@roguecc.edu
Web address . . . . . www.roguecc.edu/business
TTY . . . . . Oregon Telecom Relay Service, 711

Chemistry 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 chemistry major vary at each university.

Course No.	Course Title	Credits	AAOT Category
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
MTH251	Calculus I	5	Math
MTH252	Calculus II	5	Math
MTH253	Calculus III	5	Math
PH211	General Physics I (Calculus Based) with lab and recitation	5	Science
PH212	General Physics II (Calculus Based) with lab and recitation	5	Science
PH213	General Physics III (Calculus Based) with lab and recitation	5	Science

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 Institute of Technology	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

Commercial Truck Driving
Certificate of Completion

About the Program

The Commercial Truck Driving five-week program is designed to meet or exceed the highest standards set by reputable trucking firms in the United States. The program provides the knowledge and skills necessary to successfully pass Oregon Department of Motor Vehicles Commercial Driving License (CDL) and endorsement tests including air breaks, double/triples, tanker and hazardous materials. Commercial vehicle basics will be covered including driver qualifications, hours of service, and whistle blower protection as required by the Federal Motor Carriers Safety Administration (FMCSA). Student drivers will have a minimum of 40 hours of hands-on drive time supervised by instructors with many years of over-the-road experience.

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 Commercial Truck Driving Certificate programs is:

Prepare student to successfully pass the Oregon Department of Motor Vehicles Commercial. Driver's License (CDL) and endorsement tests.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. Students are also required to complete any prerequisites listed.

In addition, students must have a valid Oregon driver's license, completed application packet and be accepted into the program. Students must also pass the Department of Transportation (DOT) physical and drug screen and reach their 18th birthday before the first day of class. 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 department'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.

Graduation Requirements

Students completing all credits in this program with a grade of "C" or better will receive their certificates. Certain prerequisite 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. Credits earned in this program can be applied to the Associate of General Studies degree.

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
Total Prerequisite Credits		**0-8**

Required Core Courses

Course No.	Course Title	Credits
TD101	Introduction to Commercial Truck Driver Training	2
TD110	Commercial Truck Driver Training Advanced Topics	3
TD120	Commercial Truck Driver Training Practical Applications	7
TOTAL PROGRAM CREDITS		**12**

For more information, contact the Commercial Truck Driving program:

Grants Pass or Medford. 541-956-7131
Toll free in Oregon 800-460-6766
Email . . . . . truck@roguecc.edu
Web address . . . . . www.roguecc.edu/Workforce/Truck
TTY . . . . . Oregon Telecom Relay Service, 711

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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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 CS133U and CS233U for transfer.

Prerequisites

Course No.	Course Title	Credits
CS___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
EET129	Introduction to Embedded Systems	5
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		**5-16**

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
PSY201	General Psychology I	4
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I [2]	4
WR122	English Composition II [2]	4
WR227	Technical Writing	4
—	Approved humanities electives [3]	9
Total General Education Credits		**53**

Core Requirements

Course No.	Course Title	Credits
CS133U	Introduction to C++ Programming	4
CS140	Introduction to Operating Systems	4
CS233U	Advanced C++ Programming	4
CS240L	Advanced Operating Systems (Linux)	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
Total Core Credits		**55**
TOTAL PROGRAM CREDITS		**108**

[1] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] 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.

[3] 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

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 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

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 take the college placement test to determine skill level and readiness indicated by test scores. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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
Writing Skills (two courses required)		**8**
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
Oral Communication (one course required)		**3-4**
SP100	Basic Communication [1]	3
SP111	Fundamentals of Public Speaking	4
SP115	Intercultural Communication [2]	4
SP218	Interpersonal Communication	4
Mathematics		**10**
MTH251	Calculus I (Differential)	5
MTH252	Calculus II (Integral)	5
Health/Wellness/Fitness		**3**
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 [3] **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\cs 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
CS161	Computer Science I	4
CS162	Computer Science II	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**

[1] SP100 may not be accepted if students do not complete this degree before transferring to an Oregon university.

[2] Meets cultural literacy criteria (one course required). See catalog for additional courses that meet the criteria.

[3] 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 profi¬ciency in a world language regardless of when they graduated from high school or equivalency program.

[4] 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.

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 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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	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 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 [2]	9-12
___	Approved science electives [3]	11-15
___	Approved social science electives [4]	9-12
Total General Education Requirements		**59-70**

Core Requirements

Course No.	Course Title	Credits
CS125DB	Data Base Management Systems	3
CS133	Any CS133 programming language course	4
CS140	Introduction to Operating Systems	4
CS161	Computer Science I	4

CS162	Computer Science II	4
CS275	Data Base Development I	4
CS___	Approved computer science electives [5]	8-10
Total Core Credits		**31-33**
TOTAL PROGRAM CREDITS		**90-103**

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] 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
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 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 I with lab and recitation	5
CHEM105,106	Introductory Chemistry II, III with lab	4-4
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CS195	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 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
IS110,111	Introduction to International Studies	4-3
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	The Chicano/Latino Historical Experience	4

[5] Approved Computer Science Electives

(minimum 8-10 credits required)

Course No.	Course Title	Credits
CS133	Any CS133 programming language not taken as core requirement	4
CS160	Introduction to Computer Science	4
CS179	Introduction to Networks	4
CS233U	Advanced C++ Programming	4
CS234	Object Oriented Programming with C++	4
CS240L	Advanced Operating Systems: Linux	4
CS260	Data Structures	4
CS279	Network Operating Systems	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@roguecc.edu
Web address . . . . . www.roguecc.edu/cs
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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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.

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
CS120	Concepts in Computing I or documented computer proficiency	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
Total Prerequisite Credits		**0-11**

General Education Requirements

Course No.	Course Title	Credits
COMM225	Small Group Communication and Problem Solving	4
HE250	Personal Health or	
	HE252 First Aid/CPR or	
	HPE295 Health and Fitness for Life	
	HE112 Emergency First Aid or	
	HE261 CPR/Basic Life Support Provider	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
SP111	Fundamentals of Public Speaking or	
	SP218 Interpersonal Communication	4
WR121	English Composition I	4
WR227	Technical Writing or WR122 English Composition II	4
Total General Education Credits		**25-27**

Required Core Courses

Course No.	Course Title	Credits
BA101	Introduction to Business	4
BT178	Customer Service	3
CS125DB	Data Base Management Systems	3
CS125PPT	Effective Presentations	2
CS125SS	Spreadsheet Applications	4
CS125V	Visio	1
CS125WW	Word Processing Applications	3
CS133	Any CS133 programming language course	4
CS140	Introduction to Operating Systems	4
CS179	Introduction to Networks	4
CS225	Computer End-user Support I	4
CS227	PC Hardware Fundamentals and Repair	5
CS240	Advanced Operating Systems	4
CS279	Network Operating Systems I (Infrastructure)	4
CS280	Cooperative Work Experience/Computer Science	3
CS284	Network Security Fundamentals	4
	Approved program electives	9-12
Total Required Core Credits		**65-68**
TOTAL PROGRAM CREDITS		**90-95**

Approved Program Electives

(9-12 credits required)

Course No.	Course Title	Credits
BA109	Ready, Set, Work: Techniques for Landing a Job	2
CS133	Any CS133 programming language course(s) not taken as part of core	variable
CS160	Introduction to Computer Science	4
CS161	Computer Science I	4
CS162	Computer Science II	4
CS233U	Advanced C++ Language	4
CS275	Database Development I	4
CS280	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/cs
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 one to 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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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.

Computer Software Specialist — Career Pathways Certificate (16 credits)
- Entry-level computer specialist [1]

Computer Support Technician: Health Care Informatics option — Associate of Applied Science (AAS) (90-93 credits)
- Advanced-level computer specialist [1]
- Database manager [1]
- Computer programmer [1]

Computer Support Technician — Associate of Applied Science (AAS) (90-95 credits)
- Advanced-level computer specialist [1]
- Database manager [1]
- Computer programmer [1]

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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
CS120	Concepts in Computing I or documented computer proficiency [1]	0-4
MTH65	Fundamentals of Algebra II, 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
Total Prerequisite Credits		**0-16**

Required Courses

Course No.	Course Title	Credit
CS125DB	Database Management Systems (Access)	3
CS125SS	Spreadsheet Applications (Excel)	4
CS125PPT	Effective Presentations (PowerPoint)	2
CS125WW	Word Processing Applications (Word)	3
CS140	Introduction to Operating Systems	4
TOTAL PROGRAM CREDITS		**16**

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science advisor to help determine placement.

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
Web address . . . . . www.roguecc.edu/cs
TTY . . . . . Oregon Telecom Relay Service, 711

Computer Support Technician: Health Care Informatics Option

Associate of Applied Science Degree

About the Program

The Computer Support Technician: Health Care Informatics Option is designed to prepare students for employment in computer support positions within an organization or as health care informatics specialists within medical organizations. This program is designed to provide skills in computer hardware and software to meet the needs of an increasingly technical society. Students also gain knowledge and skills necessary for working in the medical industry.

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.

Use standard business productivity software to support electronic projects.

Explains basic troubleshooting processes and procedures.

Develops technical documentation to support organizational needs.

Explain 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.

Analyzes and develops workflows to improve efficiency and patient safety in a healthcare setting.

Identifies the components of the current U.S. healthcare system and discuss the impact of technology on the cost and quality of the healthcare system.

Describes the anatomy and physiology of human body systems.

Applies knowledge of legal issues surrounding patient data to protect patient privacy.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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.

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
CS120	Concepts in Computing I or documented computer proficiency	0-4
MTH63	Applied Algebra I or	
	MTH60 Fundamentals of Algebra I or designated placement test score	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	4
HE250	Personal Health or	
	HE252 First Aid/CPR or	
	HPE295 Health and Fitness for Life	
	HE112 Emergency First Aid or	
	HE261 CPR/Basic Life Support Provider	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
SP111	Fundamentals of Public Speaking or	
	SP218 Interpersonal Communication	4
WR121	English Composition I	4
WR227	Technical Writing or WR122 English Composition II	4
Total General Education Credits		**25-27**

Required Core Courses

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
AH110	Medical Terminology: Clinical	3
BA101	Introduction to Business	4
BI100SB	Biology of Human Body Systems 1	3
BT178	Customer Service	3
CS125DB	Data Base Management Systems	3
CS125PPT	Effective Presentations	2
CS125SS	Spreadsheet Applications (Excel)	4
CS133	Any CS133 programming language course	4
CS140	Introduction to Operating Systems	4
CS179	Introduction to Networks	4
CS225	Computer End-user Support I	4
CS227	PC Hardware Fundamentals and Repair	5
CS280	Cooperative Work Experience/Computer Science	3
HCI120	Introduction to Health Care Industry	3
HCI210	Legal Aspects of Medical Records	3
HCI255	Introduction to Health Care Informatics	3
——	Approved program electives	7-8
Total Required Core Credits		**65-66**
TOTAL PROGRAM CREDITS		**90-93**

Approved Program Electives

(7-8 credits required)

Course No.	Course Title	Credits
BA109	Ready, Set, Work: Techniques for Landing a Job	2
CS125V	Visio	1
CS125WW	Word Processing Applications (Word)	3
CS133	Any CS133 programming language course(s) not taken as part of required core	variable
CS160	Introduction to Computer Science	4
CS161	Computer Science I	4
CS162	Computer Science II	4
CS233U	Advanced C++ Programming	4
CS240	Advanced Operating Systems	4
CS275	Database Development I	4
CS279	Network Operating Systems I (Infrastructure)	4
CS284	Network Security Fundamentals	4
CS280	Cooperative Work Experience/Computer Science	variable
EET__ _	Any electronics course(s)	variable
MTH	Any math course(s) MTH105 or higher	variable
SOC237	Communication, Relationships and Technology	4

[1] BI121 and BI122 Elementary Anatomy and Physiology I and II with lab (two term sequence) or BI231, BI232, and BI233 Human Anatomy and Physiology I, II, III with lab (three term sequence) may be substituted.

For more information contact the Computer Science Department:

Grants Pass 541-245-7213
Medford 541-245-7527
Toll free in Oregon . . . . . 800-411-6508, Ext. 7213 or 7527
email . . . . . cs@roguecc.edu
Web address . . . . . www.roguecc.edu/cs
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.

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 take a placement test 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 levels as determined by placement test scores. 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
RD90	College Reading or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
——	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
Total Prerequisite Credits		**0-11**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
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 at Work	3
SP111	Fundamentals of Public Speaking or SP218 Interpersonal Communication	4
WR121	English Composition I	4
		19
Second Term		
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
Fourth Term		
CJ220	Law I: Substantive Law and Liability (ROLEA credits may be substituted with advisor approval)	4
ECON201	Principles of Microeconomics or approved program elective [2, 3]	3-4
——	Approved humanities elective (see this catalog for approved list of electives)	3-4
———	Approved program elective [3]	3-4
		13-16
Fifth Term		
CJ221	Law II: 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 [3]	3-4
———	Approved program elective [3]	0-4
		14-20
Sixth Term		
CJ223	Law III: 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 [3]	0-3
		14-19

Total Second Year Credits **41-55**

TOTAL PROGRAM CREDITS **94-108**

[1] Required for graduation. Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] Recommended and/or required course for students pursuing the Bachelor of Applied Science degree at SOU. See advisor for details.

[3] 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 [2]	4
BA212	Financial Accounting II [2]	4
BA213	Managerial Accounting [2]	4
BA214	Business Communications	4
BA226	Business Law	4
BT111	Conflict Management	2
CJ91/CJ191	ROLEA Module 1	0-4
CJ92/CJ192	ROLEA Module 2	0-4
CJ93/CJ193	ROLEA Module 3	0-3
CJ94/CJ194	ROLEA Module 4	0-4
CJ95/CJ195	ROLEA Module 5	0-3
CJ96/CJ196	ROLEA Module 6	0-2
CJ97/CJ197	ROLEA Module 7	0-3
CJ98/CJ198	ROLEA Module 8	0-3
CJ99	Criminal Justice Workshop	0
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
CJ280	Cooperative Work Experience/Criminal Justice	variable
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

Criminology 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 Criminology 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 note that Associate of Science is the only designation that is recorded on their transcripts and printed degrees.

Students should contact the SOU Criminology and 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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
MTH95	Intermediate Algebra or MTH96 Applied Algebra II 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
Total Prerequisite Credits		**0-15**

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	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 [2]	9-12
___	Approved lab science electives [3]	8-10
___	Approved science elective [3]	3-5
Total General Education Credits		**47-55**

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 I: Substantive Law and Liability	4
CJ221	Law II: Constitutional Criminal Procedure	4
CJ223	Law III: Evidence and Trial Process	4
CJ270	Capstone Project in Criminal Justice	4
___	Approved program electives [4]	6-8
Total Core Credits		**50-52**
TOTAL PROGRAM CREDITS		**97-107**

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] 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

[3] 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 w/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 I with lab and recitation	5
CHEM105,106	Introductory Chemistry II, III with lab	4-4
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CS195	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 w/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

(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	American 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 gen¬eral 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.

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.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Dental Assistant 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 take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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

Course No.	Course Title	Credit
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations [1]	3
BT113	Business English I or WR115 Introduction to Expository Writing or higher level composition class [1, 2]	3-4
CS	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1, 3]	0-4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or BT160 Business Math or higher level math [1]	4
SP100	Basic Communication or SP111 Fundamentals of Public Speaking or SP218 Interpersonal Communication [1]	3-4

Total Prerequisite to Cohort Credits **13-19**

Required Courses

Course No.	Course Title	Credit
First Term (Summer)		
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 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	3-5

[1] Required for graduation.

[2] Students who have successfully completed the 3-credit version of BT113 will have met the composition requirement.

[3] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science advisor to help determine placement.

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@roguecc.edu
Web address . . . . . www.roguecc.edu/alliedhealth/dental
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.

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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by the placement test scores. 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	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	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**

Technical Requirements

Course No.	Course Title	Credits
First Term		
BT113	Business English I or higher level composition [2]	4
DS111	Basic Electricity for Diesel Technicians I	7
DS120	Diesel Trades Practices	6
		17
Second Term		
DS131	Diesel Engine Dynamics and Diagnosis	5
DS134	Basic Electricity for Diesel Technicians II	4
DS141	Heavy Equipment Power Trains	5
		14
Third Term		
DS113	Diesel Engine Overhaul	6
DS151	Heavy Equipment Brakes	6
DS190	Diesel Repair Lab I	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
		19
Fourth Term (Summer)		
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
DS232	Heavy Equipment Fuel Systems	4
DS270	Air Conditioning for Diesel Technicians	5
——	Approved program elective(s)	0-6
		12-18
TOTAL PROGRAM CREDITS		**62-68**

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	6
DS199	Selected Topic Workshop	1-6
DS280	Cooperative Work Experience/Diesel	variable
DS280S	Cooperative Work Experience Seminar/Diesel	1
DS290	Diesel Repair Lab II	3
EET101	Introduction to Electronics	3
EET112	Introduction to Mechatronics	5
GS104	Physical Science with lab	4
MEC123	Industrial Safety	1
MEC124	Hoisting and Rigging	3
MFG121	Manufacturing Processes I	4
TD103A	Introduction to Commercial Truck Driver Training (Class B License)	2
TD103B	Commercial Truck Driving Training Practical Applications (Class B License)	2

[1] Required for graduation. Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] 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) 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.

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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by the placement test scores. 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
CS120	Concepts in Computing I or higher level course or documented computer proficiency [1]	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
First Term		
BT113	Business English I or higher level composition [2]	4
DS111	Basic Electricity for Diesel Technicians I	7
DS120	Diesel Trades Practices	6
LIB127	Introduction to Academic Research	1
		18
Second Term		
BT114	Business English II [3]	4
DS131	Diesel Engine Dynamics and Diagnosis	5
DS134	Basic Electricity for Diesel Technicians II	4
DS141	Heavy Equipment Power Trains	5
		18
Third Term		
DS113	Diesel Engine Overhaul	6
DS151	Heavy Equipment Brakes	6
DS190	Diesel Repair Lab I	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math [4]	4
		19
Fourth Term (Summer)		
DS232	Heavy Equipment Fuel Systems	4
DS270	Air Conditioning for Diesel Technicians	5
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations [5]	3
HE112	Emergency First Aid or HE261 CPR/Basic Life Support Provider	1
		13
Total First Year Credits		**68**

Second Year Required Courses

Course No.	Course Title	Credits
Fifth Term		
DS160	Heavy Equipment Suspension and Steering Systems	6
WLD111D	Technology of Industrial Welding I (Diesel)	6
		12
Sixth Term		
DS233	Computerized Vehicle Management Systems	7
DS280S	Cooperative Work Experience Seminar/Diesel	1
—	Approved program elective(s)	4-6
		12-14
Seventh Term		
DS260	Hydraulic Systems	4
DS275	Preventative Maintenance Inspection	6
DS280	Cooperative Work Experience/Diesel [6] or DS290 Diesel Repair Lab II	3
		13
Total Second Year Credits		**37-39**
TOTAL PROGRAM CREDITS		**105-107**

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	6
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
MEC123	Industrial Safety	1
MEC124	Hoisting and Rigging	3
MFG121	Manufacturing Processes I	4
MTH65	Fundamentals of Algebra II or higher level math	4-5
TD103A	Introduction to Commercial Truck Driver Training (Class B License)	2
TD103B	Commercial Truck Driver Training Practical Applications (Class B License)	2
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

[1] Required for graduation. Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] WR115 or higher level composition may be substituted.

[3] WR121 recommended for transfer and may be substituted.

[4] MTH105 or higher recommended for transfer.

[5] PSY101 recommended for transfer.

[6] 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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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. 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___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
MTH96	Applied Algebra II or MTH95 Intermediate Algebra or designated placement test score	0-4
PSY101	Psychology of Human Relations [2]	3
RD90	College Reading 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		**3-19**

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
MTH243	Probability and Statistics or other approved math elective [3]	4
SOC213	Race and Ethnicity in the U.S. or other approved social science elective [4]	3-4
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 [5]	9-12
___	Approved science elective [6]	11
Total General Education Requirements		**43-47**

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		**105-109**

[1] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] Required for graduation.

[3] 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

[4] Approved Social Science Electives

(complete at least one course from the following list for a minimum of 3 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
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
IS110,111	Introduction to International Studies	3-3
PS201,202,203	U.S. Government I, II, III	3-3-3
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. (if not taken as part of general education core)	4
SOC218	Sociology of Gender	3
SOC225	Social Problems and Solutions	4
SOC228	Environment and Society	4
SOC230	Introduction to Gerontology	4
SOC235	The Chicano/Latino Historical Experience	4

[5] 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
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

[6] 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 I with lab and recitation	5
CHEM105,106	Introductory Chemistry II, III with lab	4-4
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CS195	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

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 n 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@roguecc.edu
Web address . . . . . www.roguecc.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 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 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 placement test scores. 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. 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.

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 ___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
RD90	College Reading 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**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
ECE125	Early Childhood Development [2]	3
ECE126	Early Childhood Education Best Practices [2]	3
ECE152	Fostering Creativity	3
ECE161	Infant/Toddler Development	3
PSY101	Psychology of Human Relations [2]	3
		15
Second Term		
ECE135	Applied Child Development [2]	3
ECE136	Early Childhood Education: A Professional Overview [2]	3
ECE151	Guiding Children in Group Settings	3
ECE154	Children's Literature and Literacy	3
ECE163	Preschool/Primary Development	3
		15
Third Term		
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
Total First Year Credits		**43-47**

Second Year Required Courses

Course No.	Course Title	Credits
Fourth Term (Summer)		
HE250	Personal Health or HPE295 Health and Fitness for Life	3
SP111	Fundamentals of Public Speaking or SP218 Interpersonal Communication	4
		7
Fifth Term		
ECE243	Promoting Child Health and Physical Development	3
ECE244	Observation and Assessment	3
ECE254	Preschool Curriculum or ECE256 Primary Curriculum or ECE255 Infant/Toddler Materials and Activities	3
ECE275	Anti-bias Education	3
ED170	Introductory Practicum	1
LIB127	Introduction to Academic Research	1
		14
Sixth Term		
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
Seventh Term		
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 MTH60 Fundamentals of Algebra I or BT160 Business Math 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
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
FR101,102,103	First Year French 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

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] 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@roguecc.edu
Web address . . . . . www.roguecc.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 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.

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 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 placement test scores. 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. 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.

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___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
RD90	College Reading or designated placement test score	0-4
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition [2]	3-4
Total Prerequisite Credits		**3-12**

Required Program Courses

Course No.	Course Title	Credits
First Term		
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	3
		12

Second Term

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	1
		13

Third Term

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 3	3
		13

Fourth Term

ECE161	Infant/Toddler Development	3
ECE250	Infant/Toddler Environments or ECE251 Preschool Environment or ECE252 Family Child Care Environments	3
ECE266	Spanish for Early Childhood /Elementary Professionals	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or BT160 Business Math or higher level math as designated by placement test score (MTH105 or higher recommended for transfer)	4
	Approved program elective(s)	0-3
		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

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this graduation requirement. Contact a computer science adviser to help determine placement.

[2] Required for graduation.

[3] Prerequisite: WR90

For more information contact the Early Childhood and Elementary Education Department:

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Medford 541-245-7504
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Web address . . . . . www.roguecc.edu/ecee
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 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 take the college placement test to determine skill level and readiness in reading, writing and math. 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. 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.

Early Childhood Education (Basic), Career Pathways Certificate (13 credits)
- Entry-level daycare provider, child care worker, or nanny [1]

Early Childhood Education (Intermediate), Career Pathways Certificate (32 credits)
- Daycare provider, child care worker, or nanny [1]
- Teacher aides/assistants [1]

Early Childhood Education, Certificate of Completion (51-54 credits)
- Daycare provider, child care worker, or nanny [1]
- Preschool teacher [1]
- Teacher assistant [1]

Early Childhood Education, Associate of Applied Science (AAS) (96-100 credits)
- Preschool and child care administrators [1]

Early Childhood Development, Associate of Science (AS) (105-109 credits)
- Preschool and child care administrators [1]

Elementary Education Associate Science (AS) (90-100 credits)
- Preschool and child care administrators [1]

Early Childhood Development SOU, Bachelor's articulated with RCC's AS degree
- Preschool teacher [1]

Elementary Education SOU, Bachelor's articulated with RCC's AS degree
- Kindergarten teacher [1]
- Elementary school teacher [1]

Management, SOU, Bachelor of Applied Science articulated with RCC's AAS degree
- Supervisor/manager [1]
- Business owner [1]

Early Childhood Development SOU, Master's degree
- Elementary school administrator [1]
- Special education teacher [1]

Elementary Education with continuing license, SOU, Master's degree
- Elementary school administrator [1]
- Special education teacher [1]

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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
Total Prerequisite Credits		**0-8**

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
TOTAL PROGRAM CREDITS		**13**

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@roguecc.edu
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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 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.

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 take the college placement test to determine skill level and readiness in, reading, writing, and math. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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.

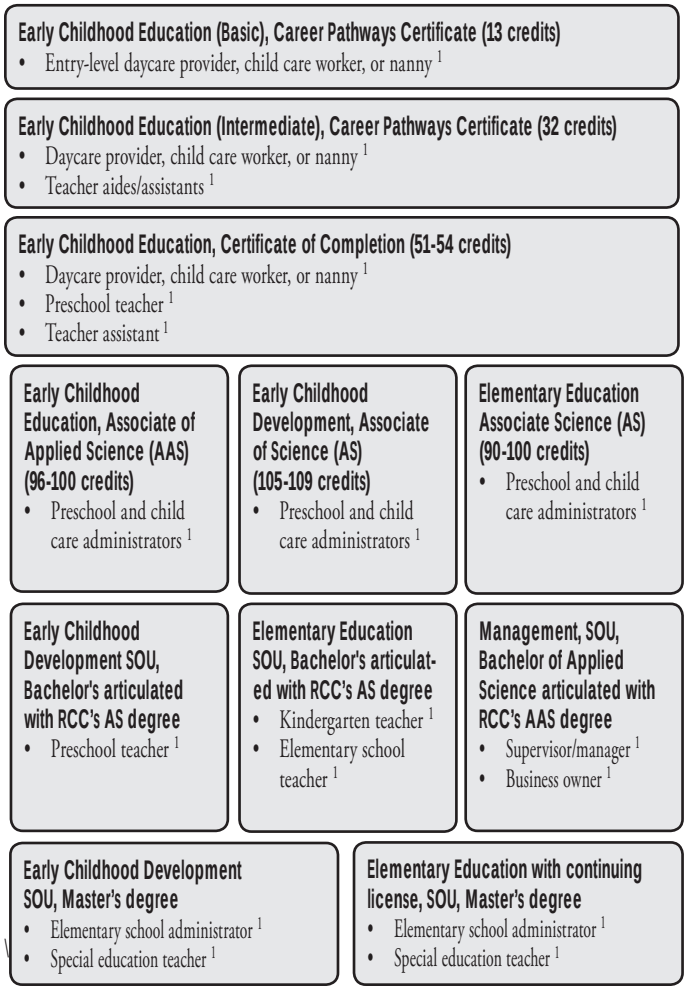
Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Some of these sites may require a background check in order for a student to participate. Future employment serving children and families will require a background 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. 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.



[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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	College Reading 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		**0-8**

Required Courses [1]

Course No.	Course Title	Credits
ECE125	Early Childhood Development [2]	3
ECE126	Early Childhood Education Best Practices [2]	3
ECE135	Applied Child Development [2]	3
ECE136	Early Childhood Education: A Professional Overview [2]	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**

[1] It is recommended that students take a math course depending on placement test score.

[2] 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@roguecc.edu
Web address . . . . . www.roguecc.edu/ecee
TTY . . . . . Oregon Telecom Relay Service, 711

Education – Elementary 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 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) hours in science, with at least one course in a biological science and one course in a physical science (chemistry, physics, geology, astronomy). Students should refer to the AAOT science sections to review these course options.
- Humanities – one course in English literature
- Social science – one course in history, one course in geography and one course in behavioral science (psychology, sociology, anthropology)

Course No.	Course Title	Credits	AAOT Category
BI101	Introduction to Biology I with lab	4	Science
BI102	Introduction to Biology II with lab	4	Science
MTH211	Fundamentals of Elementary Math I	4	Math
MTH212	Fundamentals of Elementary Math II	4	Math
MTH213	Fundamentals of Elementary Math III	4	Math

Oregon public universities offering degrees in this subject:

Eastern Oregon University	www.eou.edu
Oregon State University	www.oregonstate.edu
Southern Oregon University	www.sou.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

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.

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 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 take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with courses within their skill levels as determined by placement test scores. Students are also required to complete any prerequisites listed. 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___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	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**

Required Courses

Course No.	Course Title	Credits
First Term		
EET125	Electronics Fundamentals I (DC)	6
EET129	Introduction to Embedded Systems	5
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra l or higher level math	4
		15
Second Term		
EET126	Electronics Fundamentals II (AC)	6
EET130	Digital Fundamentals I	6
		12
Third Term		
EET131	Digital Fundamentals II	6
HE112	Emergency First Aid or approved health elective (see catalog for approved list of electives)	1-3
WR115	Introduction to Expository Writing or WR121 English Composition I	3-4
___	Approved program elective(s)	2-3
		12-16
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		**51-57**

Approved Program Electives

(one or more courses totaling 5-8 credits required)

Course No.	Course Title	Credits
BT121	Digital Marketing and e-Commerce	4
CS	Any computer science course, CS125 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
EET180S	Cooperative Work Experience Seminar/Engineering	1
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 a required course)	4
WR227	Technical Writing	4

[1] Required for graduation. Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science adviser to help determine placement.

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

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 take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with courses within their skill levels as determined by placement test scores. Students are required to complete any prerequisites on this guide. 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__	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	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
First Term		
EET129	Embedded Systems – Arduino	5
EET125	Electronics Fundamentals I (DC)	6
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
		15
Second Term		
EET126	Electronics Fundamentals II (AC)	6
EET130	Digital Fundamentals I	6
WR115	Introduction to Expository Writing or designated placement test score, or either: SP100 Basic Communication or SP111 Fundamentals of Public Speaking or SP218 Interpersonal Communication [2]	3-4
		15-16
Third Term		
EET131	Digital Fundamentals II	6
EET140	Solid State Fundamentals	6
CS140	Introduction to Operating Systems	4
		16
Fourth Term		
LIB127	Introduction to Academic Research	1
HE112	Emergency First Aid	1
EET127	Exploring Raspberry Pi	3
PSY101	Psychology of Human Relations	3
WR121	English Composition	4
		12
Total First Year Credits		**58-59**

Second Year Required Courses

Course No.	Course Title	Credits
Fifth Term		
CS227	PC Hardware Fundamentals and Repair	5
EET215	Operational Amplifiers and Linear Integrated Circuits	5
EET220	Solid State Devices	6
		16
Sixth Term		
EET225	Electronics Troubleshooting	3
EET230	Radio Frequency Communications Fundamentals	6
EET240	Microcontrollers I	5
		14
Seventh Term		
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)	0-4
		15-19
Total Second Year Credits		**45-49**
TOTAL PROGRAM CREDITS		**103-108**

Approved Program Electives

Course No.	Course Title	Credits
BA101	Introduction to Business	4
BT121	Digital Marketing and e-Commerce	4
CS	Any computer science course, CS125 or above	3-4
EET101	Introduction to Electronics	3
EET104	Fundamentals of Manufacturing Electronics	4
EET106	Electronics Assembly	3
EET112	Introduction to Mechatronics	3
EET113	Exploration of Alternative Energies	3
EET150	PLC Motor Control	3
EET180S/280S	Cooperative Work Experience Seminar/Electronics	1
EET199	Selected Topics in Technology	1-5
GS104	Physical Science with lab	4
MET101	Mechanical Drafting	3
MET121	CAD I: Mechanical (SolidWorks)	3
MET122	CAD II: Mechanical (SolidWorks)	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
MTH65	Fundamentals of Algebra II or higher level math	4-5
MTH60R	Fundamentals of Algebra I Recitation	1
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 a required course)	4
WR122	English Composition II (if not taken as a required course)	4
WLD101	Welding Fundamentals	3
WR227	Technical Writing	4

[1] Required for graduation. Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] 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@roguecc.edu
Web address ..... www.roguecc.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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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. 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___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
MTH96	Applied Algebra II or 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 BT113 Business English I or designated placement test score	0-4
Total Prerequisite Credits		**0-16**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
ECE100	Introduction to Early Childhood Education (ECE) or ED259 Foundations of Education (ELEM)	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 [2]	4
		15

Second Term

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 [3]	4
		16

Third Term

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 [4]	3-5
		13-20

Total First Year Credits **44-51**

Second Year Required Courses

Course No.	Course Title	Credits
Fourth Term		
ECE246	Child, Family and Community	3
MTH211	Fundamentals of Elementary Math I w/lab [5]	5
——	Approved humanities elective [2]	3-4
——	Approved lab science elective [4]	4-5
		15-17
Fifth Term		
ECE244	Observation and Assessment	3
ECE256	Primary Curriculum (ECE)	3
MTH212	Fundamentals of Elementary Math II w/lab [5]	5
——	Approved lab science elective [4]	4-5
		15-16
Sixth Term		
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 [2]	4
		16

Total Second Year Credits **46-49**

TOTAL PROGRAM CREDITS **90-100**

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 [5]	5
SPAN101,102,103	First Year Spanish I, II, III	4-4-4
SRV101	Service Learning	1-3

[1] Successful completion of CS101 or CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] 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
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
FR101,102,103	First Year French 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 I with lab and recitation	5
CHEM105,106	Introductory Chemistry II, III with lab	4-4
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CS195	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

[5] MTH213 highly recommended for transfer.

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@roguecc.edu
Web address . . . . . www.roguecc.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/), 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.

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

As part of their training program, students are required to take a placement test to determine skill levels in math, reading and writing. Students must begin with the courses within their skill levels as determined by placement test scores.

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.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 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 [1]	4
CS	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [2, 3]	0-4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I	0-4
RD90	College Reading or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
Total Prerequisite Credits		**4-19**

Required Courses

Course No.	Course Title	Credits
First Term		
AH100	Medical Terminology: Introduction	3
BI231	Anatomy and Physiology I w/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 w/lab	4
ES132	EMT Part II	4
ES132L	EMT Part II Lab	1
EMS170	Emergency Communication and Documentation	2
MTH96	Applied Algebra II or MTH95 Intermediate Algebra or higher level math	4
		15
Third Term		
BI233	Anatomy and Physiology III w/lab	4
ES205	Crisis Management	3

ES268	Emergency Service Rescue	3
ES171	Emergency Vehicle Operations	2
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
ASL101,102,103	First Year American Sign Language I, II, III	4-4-4
BT102	Introduction to Supervision	3
BT111	Conflict Management	2
CG144	Introduction to Assertiveness	1
CHEM104	Introductory Chemistry I w/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 [4]	3
FRP251L	Firefighter Level I Lab [4]	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

[1] BI211 is a prerequisite to BI231; CHEM104 also highly recommended.

[2] Required for graduation.

[3] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science adviser to help determine placement.

[4] 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
Web address . . . . . www.roguecc.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/), 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.

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

As part of their training program, students are required to take a placement test to determine skill levels in math, reading and writing. Students must begin with the courses within their skill levels as determined by placement test scores.

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) 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) [1]

Emergency Medical Services: Certificate of Completion (47-55 credits)
- EMT [1]

Paramedicine: Associate of Applied Science (AAS) degree (103-108 credits)
- Advanced-level EMT [1]

Dual Fire/ Paramedic AAS Degrees: Associate of Applied Science (AAS) degree (150 credits in three years)
- Firefighter/Paramedic [1]

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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
First Term		
ES105	Introduction to Emergency Services	4
ES131	EMT Part I	4
ES131L	EMT Part I Lab	1
ES268	Emergency Service Rescue	3
		12
Second Term		
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 1	3
FRP251L	Firefighter Level I Lab 1	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

[1] 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
Web address . . . . . 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

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 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 35-44 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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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__	AApproved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	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
ART131	Introduction to Drawing	3
COMM225	Small Group Communication and Problem-solving or SP111 Fundamentals of Public Speaking or SP218 Interpersonal Communication	3-4
CS195	Web Authoring I (HTML/CSS	4
LIB127	Introduction to Academic Research	1
MTH105	Introduction to Contemporary Mathematics or higher level math [2]	4-5
WR121	English Composition I	4
WR122	English Composition II	4
___	Approved humanities electives [3]	6-8
___	Approved science electives w/lab [4]	8-10
___	Approved social science electives [5]	9-12
Total General Education Requirements		**46-55**

Core Requirements

Course No.	Course Title	Credits
CS125DP	Introduction to Digital Photography	3
CS125DV	Introduction to Digital Video	3
GD120	Digital Graphic Design I	3
GD130	Introduction to Adobe Web Tools	3
GD140	Electronic Publishing Applications I	3
GD150	Computer Illustration (Illustrator)	3
GD160	Digital Imaging (Photoshop)	3
GD190	Introduction to Animation (Adobe Animate)	3
GD220	Graphic Design II	3
___	Approved computer science/graphic design electives [6]	17
Total Core Credits		**44**
TOTAL PROGRAM CREDITS		**90-99**

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] 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.

[3] Approved Humanities Electives

(complete at least three courses from the following list, 6-8 credits)

Course No.	Course Title	Credits
ART131	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
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 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 I with lab and recitation	5
CHEM105,106	Introductory Chemistry II, III with lab	4-4
CHEM221,222,223	General Chemistry I, II, III w/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 w/ lab and recitation	5-5-5

[5] 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

IS110,111	Introduction to International Studies	4-3
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	The Chicano/Latino Historical Experience	4

[6] Approved Computer Science/ Graphic Design Electives

(Complete 17 credits or a sufficient number of electives to meet the total degree requirements of at least 90 credits.)

Course No.	Course Title	Credits
CS125D	Digital 3D Graphics I	3
CS135DV	Advanced Digital Video	3
CS235W	Website Design I	4
GD141	Electronic Publishing Applications II	3
GD170	Motion Graphics (After Effects)	3
GD200	Survey of Graphic Design History	3
GD227	Production Graphics	3
GD229	Digital Portfolio and Professional Practices	3
GD230	Digital Graphic Design Studio or GD280 Cooperative Work Experience/Graphic Design	3
GD260	Digital Imaging II: Advanced Photoshop	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@roguecc.edu
Web address . . . . . www.roguecc.edu/computerscience
TTY . . . . . 541-956-7338 or 541-245-7587

Engineering Transfer to Oregon Tech

Associate of Science Degree

About the Program – Year One

Engineering is in great demand which results in high wages and very low unemployment. One reason for this shortage of qualified engineers is that an engineering degree requires more work than most other degrees. Starting at Rogue Community College with small class sizes and instructors whose primary emphasis is teaching rather than research is a great way to begin this pathway. The Associate of Science – Engineering is for students interested in transferring to a bachelor's degree program at Oregon Tech. This program is pending RCC Board of Education approval at catalog print time. For updated information, see a science program advisor.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Overall program learning outcomes for the Engineering – Transfer to Oregon Tech 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.

Be prepared to transfer to Oregon Tech as an engineering student.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading, and writing. Students must also complete any prerequisites on this guide. As part of their training program, students must begin with courses within their skill levels as determined by placement test scores and multiple measures. 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 [1]

Course No.	Course Title	Credits
MTH112	Elementary Functions or higher level math placement test score	0-4
RD90	College Reading or designated placement test score	0-4
WR115	Introduction to Expository Writing or higher level composition placement test score	0-3
____	Social Science elective [2] (e.g. ECON201, ECON202, SOC213)	0-12
Total Prerequisite Credits (not included in program credits)		**0-23**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
ENGR101	Engineering Orientation I: Careers, Skills and Computer Tools	2
MTH251	Calculus I (Differential) w/Lab	5
PH211	General Physics (Calculus Based) I w/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) w/Lab	5
PH212	General Physics (Calculus Based) II w/Lab and Recitation	5
WR122	English Composition II	4
		16

Third Term

ENGR103	Engineering Orientation III: Careers, Skills, and Computer Tools	2
MTH253	Calculus III w/Lab (CS120, or other elective to be determined)	5
MTH261	Linear Algebra w/Lab	5
PH213	General Physics (Calculus Based) III w/Lab and Recitation	5
		17

Fourth Term (Summer)

MTH254	Vector Calculus w/Lab	5
MTH256	Differential Equations w/Lab	5
		10

Total First Year Credits 59

Students in engineering majors are asked to work closely with Science Department faculty to ensure success.

At the completion of the introductory engineering sequence (ENGR101, 102, 103), Calculus I and II (MTH251, 252) and the calculus-based physics sequence (PH211, 212, 213), students are required to pick a transfer school and emphasis from one of the following options:

- Civil Engineering
- Electrical/Renewable Energy Engineering
- Mechanical Engineering

Program Specific Learning Outcomes

Civil Engineering Program Learning Outcomes

- 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 for transfer to Oregon Tech as a civil engineering student.

Electrical/Renewable Engineering Program Learning Outcomes

- 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 for transfer to Oregon Tech as an electrical/renewable energy engineering student.

Mechanical Engineering Program Learning Outcomes

- 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 for transfer to Oregon Tech as a mechanical engineering student.

[1] Prerequisite courses may have additional requirements.

[2] Required for graduation.

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/department/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.

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
ENG201	Shakespeare I	4	Humanities
ENG202	Shakespeare II	4	Humanities
ENG204	Survey of English Literature: Medieval to Renaissance	4	Humanities
ENG205	Survey of English Literature: 18th Century to Romantic	4	Humanities
ENG206	Survey of English Literature: Victorian to Modern	4	Humanities
ENG253	Survey of American Literature: Colonial	4	Humanities
ENG254	Survey of American Literature: 19th Century	4	Humanities
ENG255	Survey of American Literature: 20th Century	4	Humanities
MTH105	Introduction to Contemporary Mathematics,	4	Math
MTH111	College Algebra	4	Math
SPAN201*	Second Year Spanish I	4	Humanities
SPAN202*	Second Year Spanish II	4	Humanities
SPAN203*	Second Year Spanish III	4	Humanities

*For Bachelor of Arts degree requirement.

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
Portland State University	www.pdx.edu
Southern Oregon University	www.sou.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

Environmental Sciences/ Forestry 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 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
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 forestry and environmental sciences are offered only at the four-year institutions.

Oregon public universities offering degrees in this subject:

Oregon Institute of Technology	www.oit.edu
Oregon State University	www.oregonstate.edu
Portland State University	www.pdx.edu
University of Oregon	www.uoregon.edu

Exercise Specialist
Certificate of Completion

About the Program

The Exercise Specialist two-term certificate program prepares students for work in entry-level positions as professional members of preventive health care teams. Students could expect to find employment in a variety of health and fitness clubs, wellness centers, public and private recreation facilities, hospitals, and corporate fitness programs where a working knowledge of instruction and administrative duties is required.

The variety of duties that may be performed by an exercise specialist include: directing safe and effective exercise programs, assisting at the front counter with phones and advertising, supervising weight and cardio areas, organizing adult and children's programs, assisting residents in a retirement or Alzheimer's setting, working as a personal trainer with clients, assisting with swim classes and conducting exercise classes. Additional duties may also include participating in open gym activities and sports organizations, conducting fitness testing and instructing clients in appropriate sport and fitness activities, sales, and club business operations and member retention efforts. Exercise specialists have a background in basic anatomy and physiology, fitness assessment and programming, training in interpersonal skills, customer relations, behavior modifications, and fitness promotion.

The program is designed to correlate classroom and laboratory experience with practical experience in facilities in the community. During the course of study, successful students may be certified by the American Heart Association (AHA) at the Health Care Provider level for CPR, the community level for first aid, and be prepared to take the Group Fitness Instructor certifying exam given by the American Council on Exercise (ACE). Students will also be prepared to take any one of several national personal trainer exams.

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.

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 Exercise Specialist Certificate program 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.

Build personalized fitness programs based on best practices and industry standards.

Assess specific needs and motivate individuals and groups to make progress toward personal fitness levels.

Design and teach individual and group fitness classes effectively and safely.

Model professionalism through effective communication, appropriate attire, positive attitude and consistent learning policies and procedures.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores, and meet with an advisor prior to enrolling in the program. 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 Health, PE, and Recreation 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 student with College Now credit must meet with the department chair to determine placement. Students requesting advanced placement or transfer credit from prior coursework must submit a written request to the department along with transcripts and course descriptions for all coursework.

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 General Studies degree.

Prerequisites

Course No.	Course Title	Credits
CS___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
MTH20	Pre-algebra or designated placement test score	0-4
RD90	College Reading	0-4
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition class [2]	3-4
Total Prerequisite Credits		**3-16**

Required Core Courses

Course No.	Course Title	Credits
First Term		
HE131	Introduction to Exercise and Sport Science	3
HPE295	Health and Fitness for Life	3

MTH60	Fundamentals of Algebra I or	
	MTH63 Applied Algebra I or	
	BT160 Business Math or higher level math	4
PE185D	Physical Conditioning/Weight Training	1
PE194	Principles of Exercise Training and Conditioning	2
PE290	Fitness Instructor	2
		15

Second Term

BI100SB	Biology of Human Body Systems or	
	BI121 Elementary Anatomy and Physiology I w/lab or	
	BI231 Human Anatomy and Physiology I w/lab	3-4
BT101	Human Relations in Organizations or	
	PSY101 Psychology of Human Relations	3
HE259	Care and Prevention of Athletic Injuries	3
HE261	CPR/Basic Life Support Provider or	
	HE112 Emergency First Aid	1
PE185E	Yoga or	
	PE185J Pilates or	
	PE185L Lap Swimming or	
	PE185Q Aquatics for Personal Trainers or	
	PE185M Multi-level Aerobics or	
	PE185TC Tai Chi or	
	PE185F Karate or	
	PE184 Adaptive Physical Education or	
	PE185Q Aquatics for Personal Trainers	1
PE185K	Core and Cardio or	
	PE185N Circuit Fitness Training or	
	PE185T Toning, Training and TRX or	
	PE185WW Women and Weights or	
	PE185Z Zumba or Strong by Zumba or	
	PE185SS Step and Stuff	1
PE264	Fundamentals of Personal Training	2
PE280	Cooperative Work Experience/Physical Education	2
		16-17

TOTAL PROGRAM CREDITS **31-32**

[1] Required for graduation. Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] Students who have successfully completed the 3-credit version of BT113 will have met the writing requirement.

For more information contact the Health, PE, and Recreation Department at:

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 or rvchealthpe@roguecc.edu
Web address . . . . . www.roguecc.edu/HPER
TTY . . . . . Oregon Telecom Relay Service, 711

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 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 the courses within their skill levels as determined by placement test scores. In addition, students may be required to enroll in courses 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
——	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1, 2]	0-4
RD90	College Reading or designated placement test score	0-4
PSY101	Psychology of Human Relations [2]	3
WR115	Introduction to Expository Writing or	
	BT113 Business English I or designated placement test score	0-4
Total Prerequisite Credits		**3-15**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
ECE125	Early Childhood Development	3
LIB127	Introduction to Academic Research	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	
	MTH60 Fundamentals of Algebra I or	
	BT160 Business Math I or higher level math	4
PSY202	General Psychology II	4
		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	4
		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	3
		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	0-4
		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	0-4
		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	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

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] 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 . . . . . ecee@roguecc.edu
Web address . . . . . www.roguecc.edu/ecee
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.

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 the courses within their skill levels as determined by placement test scores. In addition, students may be required to enroll in courses 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 [1]

Certificate of Completion (CC) — Family Support Services (53-55 credits)
- Family Advocate [1]
- Juvenile Advocate [1]
- Domestic Violence Advocate [1]

Associate of Applied Science (AAS) — Family Support Services (93-102 credits)
- Community Health Worker [1]
- Family Support Specialist [1]
- Social Work Outreach – Child, School, Family [1]

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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
——	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency	0-4
PSY101	Psychology of Human Relations	3
RD90	College Reading 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		**3-15**

Required Courses

Course No.	Course Title	Credits
First Term		
ECE125	Early Childhood Development	3
PSY201	General Psychology I	4
		7
Second Term		
HS155	Interviewing Theory and Techniques	4
PSY202	General Psychology II	4
		8
Third Term		
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
		9-10
Fourth Term		
HDFS260	Child Abuse and Neglect	3
HS201	Family Dynamics	3
		6
Total Program Credits		**30-31**

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science advisor to help determine placement.

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 . . . . . ecee@roguecc.edu
Web address . . . . . www.roguecc.edu/ecee
TTY . . . . . Oregon Telecom Relay Service, 711

Family Support Services
Certificate of Completion

About the Program

The Family Support Services four-term program is designed to provide pre-employment training and education for entry-level family support workers through classroom studies and practical training. Graduates may serve families as family advocates, home visitors, parent educators, or family outreach workers, among other occupations. Coursework for this program spans the disciplines of human services and early childhood development to provide a strong base for work with children and families in a variety of settings. It is designed to accommodate both full- and part-time students and those currently employed in the field. Embedded within the program is training which meets requirements for community health worker certification through the Oregon Health Authority.

Some courses in this program may not transfer to other institutions. Students intending to transfer should seek advisor assistance to determine transferability.

Program Learning Outcomes

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

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 the courses within their skill levels as determined by placement test scores. In addition, students may be required to enroll in courses 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
——	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1, 2]	0-4
MTH20	Pre-algebra or designated placement test score	0-4
PSY101	Psychology of Human Relations	3
RD90	College Reading or designated placement test score	0-4
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition class [2]	3-4
Total Prerequisite Credits		**6-19**

Required Courses

Course No.	Course Title	Credits
First Term		
ECE125	Early Childhood Development	3
ECE258	Early Childhood Home Visitation	3
PSY201	General Psychology I	4
SOC243/CJ243	Drugs, Crime and Addiction	4
		14
Second Term		
ECE265	Children at Risk	3
HS155	Interviewing Theory and Techniques	4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or BT160 Business Math or higher level math	4
PSY202	General Psychology II	4
		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
		12-13
Fourth Term		
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	The Chicano/Latino Historical Experience	4

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] 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 . . . . . ecee@roguecc.edu
Web address . . . . . www.roguecc.edu/ecee
TTY . . . . . Oregon Telecom Relay Service, 711

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/), 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.

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

As part of their training program, students are also required to take a placement test to determine skill levels and readiness in math, reading and writing. Students must begin with the courses within their skill levels as determined by the placement test scores. 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	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
FRP251	Firefighter Level I 2	3
FRP251L	Firefighter Level I Lab 2	5
MTH20	Pre-algebra or designated placement test score	4
RD90	College Reading or designated placement test score	4
WR115	Introduction to Expository Writing or designated placement test score	0-3
Total Prerequisite Credits		**16-23**

Required Courses

Course No.	Course Title	Credits
First Term		
FRP256	Fire Behavior and Combustion	3
FRP264	Building Construction for Fire Protection	3
FRP242	Introduction to Codes and Ordinances	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
WR121	English Composition I	4
		17
Second Term		
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
Third Term		
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
TOTAL PROGRAM CREDITS		**46**

[1] Required for graduation. Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] 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
email . . . . . emergencyservicesadvisors@roguecc.edu
TTY . . . . . Oregon Telecom Relay Service, 711

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), 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.

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

As part of their training program, students are also required to take a placement test to determine skill level and readiness in math, reading and writing. Students must begin with the courses within their skill levels as determined by the placement test scores. In addition, students may also be required to enroll in courses 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___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
FRP251	Firefighter Level I 2	3
FRP251L	Firefighter Level I Lab 2	5
MTH20	Pre-algebra or designated placement test score	4
RD90	College Reading or designated placement test score	4
WR115	Introduction to Expository Writing or designated placement test score	0-3
Total Prerequisite Credits		**16-23**

Required Core Courses

Course No.	Course Title	Credits
First Term		
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
Second Term		
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
Third Term		
FRP238	Public Education, Relations and Information	3
FRP273	Fire Investigation	3
FRP274	Firefighting Strategy and Tactics	3
PS203	United States Government III	3
		12
Fourth Term		
FRP199	Workshop: Selected Topics	2
FRP282	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
TOTAL PROGRAM CREDITS		**51**

[1] Required for graduation. Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] 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
email . . . . . emergencyservicesadvisors@roguecc.edu
TTY . . . . . Oregon Telecom Relay Service, 711

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

As part of their training program, students are required to take a placement test to determine skill levels and readiness in math, reading and writing. Students must begin with the courses within their skill levels as determined by placement test scores. In addition, students may also be required to enroll in courses 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___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
MTH20	Pre-algebra or designated placement test score	4
RD90	College Reading or designated placement test score	4
WR115	Introduction to Expository Writing or designated placement test score	0-3
Total Prerequisite Credits		**8-15**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
ES105	Introduction to Emergency Services	4
FRP251	Firefighter Level I 2	3
FRP251L	Firefighter Level I Lab 2	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
Fourth Term		
ES171	Emergency Vehicle Operations	2
ES268	Emergency Service Rescue	3
ES242	Introduction to Codes and Ordinances	3
ES295	Health and Fitness for Emergency Service Workers or HPE295 Health and Fitness for Life	3
WR121	English Composition I	4
___	Approved program elective [3]	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 [3]	0-3
		12-15
Sixth Term		
FRP259	Water Supply Operations	3
FRP264	Building Construction for Fire Protection	3
FRP274	Firefighting Strategy and Tactics	3
ES280	Cooperative Work Experience/Fire Science	3
PSY101	Psychology of Human Relations or	

	BT101 Human Relations in Organizations	3
___	Approved program elective [3]	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
ES205	Crisis Management	3
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

[1] Required for graduation. Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] FRP251 taken previously for 8 credits but without a separate lab is also acceptable.

[3] 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), 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.

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

As part of their training program, students are required to take a placement test to determine skill levels and readiness in math, reading and writing. Students must begin with the courses within their skill levels as determined by placement test scores. In addition, students may also be required to enroll in courses 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 veri¬fication 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 [1]
- Entry-level wildland (forest) firefighter [1]

Fire Science: Associate of Applied Science (AAS) degree (93-99 credits)
- Structural firefighter [1]

Fire Officer: Certificate of Completion (51 credits)
- Advanced-level structural firefighter officer [1]
- Advanced-level wildland (forest) firefighter officer [1]

Fire and Life Safety: Certificate of Completion (46 credits)
- Fire inspectors and investigators [1]

Dual Fire/ Paramedic: Associate of Applied Science (AAS) degree (150 credits in three years)
- Firefighter/paramedic [1]

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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
MTH20	Pre-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
Total Prerequisite Credits		**0-11**

Required Courses

Course No.	Course Title	Credits
First Term		
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
Second Term		
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
TOTAL PROGRAM CREDITS		**36**

[1] FRP251 taken previously for 8 credits but without a separate lab is also acceptable.

For more information contact the Emergency Services Department:

www.roguecc.edu/EmergencyServices

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

Geology 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 geology major vary at each university.

Course No.	Course Title	Credits	AAOT Category
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
G101	Introduction to Geology I with lab	4	Science
G102	Introduction to Geology II with lab	4	Science
G103	Introduction to Geology III with lab	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) with lab and recitation	5	Science
PH212	General Physics II (Calculus Based) with lab and recitation	5	Science
PH213	General Physics III (Calculus Based) with lab and recitation	5	Science

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	www.oregonstate.edu
Portland State University	www.pdx.edu
University of Oregon	www.uoregon.edu

Graphic Design
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.

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 graphic design 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 take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores and meet with an advisor prior to enrolling in the program. 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 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.

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.

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
CS120	Concepts in Computing I or documented computer proficiency [1]	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	
	HE252 First Aid/CPR or	
	HPE295 Health and Fitness for Life or	
	HE261 CPR/Basic Life Support Provider or	
	HE112 Emergency First Aid	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
Total General Education Credits		**17-19**

Required Core Courses

Course No.	Course Title	Credits
ART115	BBasic Design (Composition)	3
ART116	Basic Design (Color Theory)	3
ART245	Drawing for Graphic Design	3
BT106	Advertising or	
	BA243 Social Media Marketing	3
CS195	Web Authoring I (HTML/CSS)	4
CS235	Content Management Systems (Word Press)	3
GD120	Digital Graphic Design I	3
GD130	Introduction to Adobe Web Tools (NEW)	3
GD140	Electronic Publishing Applications I	3
GD141	Electronic Publishing Applications II	3
GD150	Computer Illustration (Illustrator)	3
GD160	Digital Imaging (Photoshop)	3
GD200	Survey of Graphic Design History	3
GD220	Digital Graphic Design II	3
GD223	Digital Graphic Design III	3
GD224	Digital Graphic Design IV	3
GD227	Production Graphics	3
GD229	Digital Portfolio and Professional Practices	3
GD230	Digital Graphic Design Studio or	
	GD280 Cooperative Work Experience/Graphic Design	3
____	Approved program electives	15-20
Total Required Core Credits		**73-78**
TOTAL PROGRAM CREDITS		**90-97**

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)	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	3
BT121	Digital Marketing and e-Commerce	4
CS125D	Digital 3D Graphics	3
CS125DP	Digital Photography	3
CS125DV	Introduction to Digital Video	3
CS135DV	Advanced Digital Video	3
CS196	Web Authoring II (HTML/CSS)	4
CS235W	Website Design I	4
GD170	Motion Graphics (After Effects)	3
GD190	Introduction to Animation (Adobe Animate)	3
GD260	Digital Imaging II: Advanced Photoshop	4
GD280	Cooperative Work Experience/Graphic Design	variable
MTH	Any math course, MTH65 or higher	variable

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science advisor to help determine placement.

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

Graphic Design
Certificate of Completion

About the Program

The Graphic Design three-term certificate program is designed to give students a solid foundation in layout/design concepts and computer graphics applications for print and Web. These include desktop publishing, graphic illustration, digital imaging, and Web page design. Students will also receive instruction in computer fundamentals including terminology, software use, hardware configuration, and operating systems.

All courses in the program have high academic standards and serve dual purposes: They prepare students for careers or serve as a vehicle for those wishing to learn specific skills.

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.

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 graphic design 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.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores and meet with an advisor prior to enrolling in the program. 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 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.

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
CS120	Concepts in Computing I or documented computer proficiency [1]	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**

Required Technical Courses

Course No.	Course Title	Credits
Fall Term		
ART116	Basic Design (Color Theory)	3
GD120	Digital Graphic Design I	3
GD140	Electronic Publishing Applications I (InDesign)	3
GD160	Digital Imaging (Photoshop)	3
WR121	English Composition I	4
		16
Winter Term		
ART132	Introduction to Drawing (Line) or	
	ART234 Figure Drawing I	3
ART237	Illustration (Black and White Media) or	
	ART238 Illustration (Color Media)	3
GD141	Electronic Publishing Applications II or	
	GD190 Adobe Animate	3
GD150	Computer Illustration (Illustrator)	3
PSY101	Psychology of Human Relations	3
		15
Spring Term		
ART115	Basic Design (Composition)	3
GD130	Intro to Adobe Web Tools (NEW)	3
GD220	Digital Graphic Design II	3
GD227	Production Graphics	3
MTH63	Applied Algebra I or	
	MTH60 Fundamentals of Algebra I or higher level math	4
		16
TOTAL PROGRAM CREDITS		**47**

[1] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science advisor to help determine placement.

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

Graphic Design: Adobe® Applications Technician

Career Pathways Certificate

About the Program

The Adobe® Applications Technician Career Pathway one-term certificate prepares students for work in entry-level positions in the graphic design industry where a working knowledge of Adobe® Creative Suite Premium applications is required. It is the first step to the one-year Graphic Design certificate and the Associate of Applied Science (AAS) degree in Graphic Design. 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.

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 Graphic Design Career Pathway Certificate program 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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within

their skill levels as determined by placement test scores. 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 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.

Graphic Design: Adobe® Applications Technician Career Pathways Certificate of Completion (15 credits)
- Entry-level desktop publisher [1]

Graphic Design — Certificate of Completion (47 credits)
- Desktop publisher 1
- Entry-level graphic designer [1]

Graphic Design — 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 [1]

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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	Credit
MTH20	Concepts in Computing I or documented computer proficiency	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	Credit
GD130	Intro to Adobe Web Tools	3
GD140	Electronic Publishing Applications I	3
GD150	Computer Illustration: Illustrator	3
GD160	Digital Imaging: Photoshop	3
GD190	Introduction to Animation (Adobe Animate)	3
TOTAL PROGRAM CREDITS		**15**

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science advisor to help determine placement.

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
Web address . . . . . .www.roguecc.edu/computerscience
TTY . . . . . Oregon Telecom Relay Service, 711

Health Care Informatics Assistant

Certificate of Completion

About the Program

The Health Care Informatics Assistant three-term program is designed to prepare students for employment as health care informatics assistants within medical organizations. The program provides skills to prepare students to work in the health care industry. Students will also be provided with basic skills in computer hardware and software to help meet the increasing technical demands of the health care industry.

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.

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 Care Informatics Assistant Certificate program are:

Applies operating system, software concepts and principles to problem solving in the context of computer systems.

Troubleshoots and solves a variety of equipment-related issues in a workplace environment.

Uses standard business productivity software to support electronic projects.

Explains and demonstrates 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.

Analyzes and develops workflows to improve efficiency and patient safety in a health care setting.

Identifies the components of the current U.S. healthcare system and discuss the impact of technology on the cost and quality of the healthcare system.

Describes the anatomy and physiology of human body systems.

Applies knowledge of legal issues surrounding patient data to protect patient privacy.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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 Allied Health 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.

Graduation Requirements

The Health Care Informatics Assistant certificate will be awarded to students who complete all credits in this program with a grade of "C" or better. 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
CS120	Concepts in Computing I or documented computer proficiency	0-4
MTH60	Fundamentals of Algebra I or 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		**0-16**

General Education Requirements

Course No.	Course Title	Credits
PSY101	Psychology of Human Relations	3
MTH65	Fundamentals of Algebra II or	
	MTH96 Applied Algebra II or higher level math	4
WR115	Introduction to Expository Writing or higher level composition	3
Total General Education Requirements		**10**

Required Courses

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
AH110	Medical Terminology: Clinical	3
BI100SB	Biology of Human Body Systems [1]	3
CS125DB	Data Base Management Systems	3
CS140	Introduction to Operating Systems	4
CS179	Introduction to Networks	4
CS225	Computer End-user Support I	4
HCI120	Introduction to the Health Care Industry	3
HCI210	Legal Aspects of Medical Records	3
HCI255	Introduction to Health Care Informatics	3
———	Approved program elective(s)	3-4
Total Required Courses		**36-37**
TOTAL PROGRAM CREDITS		**46-47**

Approved Program Electives

(3-4 credits required)

Course No.	Course Title	Credits
BT178	Customer Service	3
COMM225	Small Group Communication and Problem Solving	4
CS125SS	Spreadsheet Applications	4

[1] BI121 and BI122 Elementary Anatomy and Physiology I and II with lab (two term sequence) or BI231, BI232, and BI233 Human Anatomy and Physiology I, II, III with lab (three term sequence) may be substituted.

For more information contact the Allied Health Department:

Grants Pass or Medford 541-235-7846
Toll free in Oregon .....800-411-6508, Ext. 7846
email..... cs@roguecc.edu
Web address ..... www.roguecc.edu/cs
TTY ..... Oregon Telecom Relay Service, 711

Health Informatics - 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 Health Informatics. 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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	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
MTH243	Probability and Statistics w/lab	4
MTH244	Inferential Statistics	4
MTH111	College Algebra	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 [2]	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
CS125DB	Data Base Management Systems	3
CS125SS	Spreadsheet Applications or	
	BA285 Advanced Business Applications: Excel	4
CS140	Operating Systems	4
CS179	Introduction to Networks	4
CS133C#	Programming Fundamentals Using C#	4

CS227	PC Hardware Fundamentals and Repair	5
CS275	Data Base Development I	4
HCI255	Introduction to Health Care Informatics	3
Total Core Credits		**49**
TOTAL PROGRAM CREDITS		**103-105**

[1] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] 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

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@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
BI213	General Biology III 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
MTH111	College Algebra	4	Math
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

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
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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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
CS___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
RD90	College Reading or designated placement test score	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		**0-15**

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
BI213	General Biology III 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
WR121	English Composition I	4
WR122	English Composition II or WR227 Technical Writing	4
___	Approved humanities electives [2]	10-12
___	Approved social science electives [3]	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
HE208	HIV and Other Epidemics	1
HE250	Personal Health	3
HE252	First Aid/CPR	3
HE253	Wilderness First Aid	3
HPE295	Health and Fitness for Life	3
NFM225	Nutrition	4
PE185	Physical Education	7
HE199	Special Studies in Health or PE199 Special Studies in Physical Education	1
HE131	Introduction to Exercise and Sport Science	3
HE259	Care and Prevention of Athletic Injury	3
PE280	CWE/Physical Education	2
	Approved program electives [4]	3
Total Core Credits		**48**
TOTAL PROGRAM CREDITS		**90-93**

[1] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement

[2] 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
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

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.

[3] 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
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
IS110,111	Introduction to International Studies	4-3
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	The Chicano/Latino Historical Experience	4

[4] Approved Program Electives

(Select 3 credits from courses not otherwise required within the base program or option area.)

Course No.	Course Title	Credits
PE185	Physical Education (one additional course not taken as part of core)	1
PE194	Principles of Exercise Training and Conditioning	2
PE264	Fundamentals of Personal Training	2
PE290	Fitness Instructor	2

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 or rvchealthpe@roguecc.edu
Web address . . . . . 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.

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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. Students are required to complete any prerequisites listed. 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___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	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**

General Education Courses

Course No.	Course Title	Credits
Mathematics		
(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
Communication		
(one course required)		
BT113	Business English I	
BT114	Business English II	
WR115	Introduction to Expository Writing	
WR121	English Composition I	3-4
Health/First Aid		
HE112	Emergency First Aid	1
Human Relations		
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
CS___	Any computer science course, CS125 or above (CS125ss strongly recommended)	variable
AM120	Auto Maintenance and Trades Practices with lab	6
DS111	Basic Electricity for Diesel Technicians I with lab	7
DS120	Diesel Trades Practices with lab	6
DS260	Hydraulic Systems for Heavy Equipment	4
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	5
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**

[1] Required for graduation. Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science advisor to help determine placement.

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.

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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. Students are required to complete any prerequisites listed. 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 (44 credits)

- Entry-level industrial machinery mechanic [1]
- Entry-level maintenance worker, machinery [1]
- Entry-level mechanical door repairer [1]
- Entry-level maintenance and repair worker, general [1]
- Entry-level assembler and fabricator [1]

High Technology Studies — Certificate of Completion (50-52 credits)

- Industrial machinery mechanic [1]
- Maintenance worker, machinery [1]
- Mechanical door repairer [1]
- Maintenance and repair worker, general [1]
- Assembler and fabricator [1]

High Technology Studies credits could lead to Associate of Applied Science degrees in the following fields:

- Welding (93-97 credits)
- Manufacturing/ engineering (97-108 credits
- Electronics (103-108 credits)
- Diesel (105-107 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 (105-108 credits)
- Computer and Embedded systems Engineering (108 credits)

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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___	Approved 3-4 credit computer science class, CS120 or above or documented proficiency [1]	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
First Term		
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	5
MFG121	Manufacturing Processes I	4
WLD111	Technology of Industrial Welding I	6
		15
Third Term		
MEC130	Hydraulics I	3
MFG122	Manufacturing Processes II	4
WLD250C	Selected Topics: SMAW	2
WR115	Introduction to Expository Writing [2]	3
		12
TOTAL PROGRAM CREDITS		**43**

[1] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] 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
Web address ..... 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
MTH111	College Algebra	4	Math
SOC235/HST259	The Chicano/Latino Historical Experience	4	Social Science
SPAN201*	Second Year Spanish I	4	Humanities
SPAN202*	Second Year Spanish II	4	Humanities
SPAN203*	Second Year Spanish III	4	Humanities

*For Bachelor of Arts requirement.

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
Portland State University	www.pdx.edu
Southern Oregon University	www.sou.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

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.

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 [1]

Course No.	Course Title	Credits
CS___	Approved 3-4 credit computer science class, CS120 or above, or documented computer proficiency [2]	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
RD90	College Reading or designated placement test score	0-4
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I	4
Total Prerequisite Credits		**15-23**

Required First Year Courses

Course No.	Course Title	Credits
First Term		
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
Second Term		
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
HS202	Counseling the Chemically Dependent Client I	3
HS158	Trauma-informed Care: Theory and Practice	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
Fourth Term		
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	The Chicano/Latino Historical Experience	4
SOC237	Communication, Relationships and Technology	4

[1] All prerequisite courses are required for graduation and may include additional classes based on placement scores.

[2] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

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@roguecc.edu
Web address . . . . . www.roguecc.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 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 pro-

gram. 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.roguecc.edu/humanservices.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the department coordinator's approval. In order to ensure that coursework is current, program courses over seven years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with a Human Services Department advisor to determine placement.

Graduation Requirements

Students must successfully complete all credits in this program with a grade of "C" or better and passing the counseling skills competency requirement as demonstrated through a series of videotaped counseling interviews, to receive their degrees. A total of 264 hours (8 credits) of documented practicum is required and a minimum of two practicum seminars must also be completed. For admission to the SOU Human Services program, RCC students 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 [1]

Course No.	Course Title	Credits
CS___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [2]	0-4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or designated placement test score [3]	0-4
PSY101	Psychology of Human Relations	3
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I	4
Total Prerequisite Credits		**11-19**

General Education Requirements

Course No.	Course Title	Credits
LIB127	Introduction to Academic Research	1
MTH243	Probability and Statistics with lab [3]	4
SOC204	Introduction to Sociology	4
WR122	English Composition II or WR227 Technical Writing	4
___	Approved humanities electives [4]	9-12
___	Approved science electives [5]	11-15
Total General Education Requirements		**33-40**

Core Requirements

Course No.	Course Title	Credits
First Term		
HS100	Introduction to Human Services	3
HS170	Introduction to Practicum	3
PSY201	General Psychology I	4
SOC243/CJ243	Drugs, Crime and Addiction	4
		14
Second Term		
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	4
		15
Third Term		
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	4
		16
Fourth Term		
HDFS260	Child Abuse/Neglect	3
HS210	Motivational Interviewing	3
		6
Fifth Term		
HS260	Group Counseling	4
HS266	Crisis Intervention Strategies	3
HS268	Co-occurring Disorders: Introductory Theory and Counseling	3
		10
Sixth Term		
HS265	Counseling Theories	3
SOC230	Introduction to Gerontology	4
		7
Total Core Credits		**68**
TOTAL PROGRAM CREDITS		**101-108**

[1] Required for graduation.

[2] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

[3] MTH95 or MTH96 prerequisite required before enrolling in MTH243.

[4] 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

[5] 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 I with lab and recitation	5
CHEM105,106	Introductory Chemistry II, III with lab	4-4
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CS195	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@roguecc.edu
Web address . . . . . www.roguecc.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.

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 take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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.roguecc.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
BT113	Business English I or	
	WR115 Introduction to Expository Writing or higher level composition [1]	3-4
CS___	Approved 3-4 credit computer science class, CS120 or above	
	or documented computer proficiency [1, 2]	0-4
MEC102	Basic Hand Tools or demonstrated proficiency	0-3
MTH20	Pre-algebra or designated placement test score	0-4
RD90	College Reading/Fundamentals of Composition	0-4
Total Prerequisite Credits		**3-19**

Required Courses

Course No.	Course Title	Credits
BT114	Business English II or	
	WR121 English Composition I or higher level composition [3]	4
GS104	Physical Science with lab or approved program elective	3-4
HE112	Emergency First Aid	1
LIB127	Introduction to Academic Research	1
MET101	Mechanical Drafting	3
MFG116	Metrology	2

MFG121	Manufacturing Processes I	4
MFG122	Manufacturing Processes II	4
MTH63	Applied Algebra I or	
	MTH60 Fundamentals of Algebra I or higher level math	4
PSY101	Psychology of Human Relations or	
	BT101 Human Relations in Organizations	3
WLD104	Blueprint Reading – Mechanical	3
WLD111	Technology of Industrial Welding I	6
WLD112	Technology of Industrial Welding II	6
WLD113	Technology of Industrial Welding III	6
WLD121	Fabrication and Repair Practices I	5
WLD122	Fabrication and Repair Practices II	5
WLD211	Technology of Industrial Welding IV	6
WLD212	Technology of Industrial Welding V	6
WLD213	Technology of Industrial Welding VI	6
WLD220	Machine Tool Maintenance and Repair	3
WLD221	Welding Codes, Procedures and Inspections	3
WLD225	Industrial Metallurgy or	
	MET160 Materials and Metallurgy	3
WLD280	Cooperative Work Experience/Welding or WLD250F Capstone	3
——	Approved program elective	3-6
TOTAL PROGRAM CREDITS		**93-97**

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 w/Lab	4
EET101	Introduction to Electronics	3
MEC103	Industrial Safety	1
MEC124	Hoisting and Rigging I	3
MEC125	Pneumatics I	3
MEC130	Hydraulics I	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
MFG123	Manufacturing Processes III	4
MFG211	Manufacturing Power and Control Electronics	4
MFG232	Electric Motor Control I	3
MFG233	Electric Motor Control II	3
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

[1] Required for graduation.

[2] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science advisor to help determine placement.

3 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@roguecc.edu
Web address ..... www.roguecc.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.roguecc.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 take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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 indus¬try 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.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
BT113	Business English I or	
	WR115 Introduction to Expository Writing or higher level composition [1, 2]	3-4
CS___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1, 3]	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
First Term		
HE112	Emergency First Aid	1
MET101	Mechanical Drafting	3
WLD111	Technology of Industrial Welding I	6
———	Approved program elective	3
		13
Second Term		
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
Third Term		
WLD113	Technology of Industrial Welding III	6
WLD121	Fabrication and Repair Practices I	5
	Approved program elective	3
		14
TOTAL PROGRAM CREDITS		**42**

Approved Program Electives

(6 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
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

[1] Required for graduation.

[2] Students who have successfully completed the 3-credit version of BT113 will have met the writing prerequisite.

[3] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science advisor to help determine placement.

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
Web address . . . . . www.roguecc.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.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 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 take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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 indus¬try 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.roguecc.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 [1]

Industrial Welding Technology
Certificate of Completion (42 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 [1]

Industrial Welding Technology
Associate of Applied Science (AAS) (93-97 credits)

- Welder/fabricator, pipe welder, equipment repairer, cutter, solder, and brazier [1]

Management
SOU, Bachelor of Applied Science articulated with RCC's AAS degrees

- Supervisor/manager [1]
- Business owner [1]

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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
Web address ..... www.roguecc.edu/welding
TTY ..... Oregon Telecom Relay Service, 711

Information 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. 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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	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 w/lab	4
MTH244	Inferential Statistics	4
PSY201	General Psychology I	4
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I	4
WR122	English Composition II	4
WR227	Technical Writing	4
———	Approved humanities electives [2]	6-8
———	Approved science electives [3]	4
Total General Education Requirements		**51-53**

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
CS125db	Data Base Management Systems	3
CS125ss	Spreadsheet Applications or	
	BA285 Advanced Business Applications: Excel	4
CS140	Operating Systems	4
CS179	Introduction to Networks	4
CS133c#	Programming Fundamentals Using C#	4
CS227	PC Hardware Fundamentals and Repair	5
CS275	Database Development I	4
CS279	Network Operating Systems	4
Total Core Credits		**54**
TOTAL PROGRAM CREDITS		**105-107**

[1] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] 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
ART211	Survey of Visual Arts	3
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
FR201,202, 203	Second Year French I, II, III	4-4-4
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 Science Electives

At least four credits must be completed from a laboratory-based science course in BIO, CHE, GEOG 115 or PHY.

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@roguecc.edu
Web address . . . . . www.roguecc.edu/cs
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 take a placement test to determine skill level and readiness in math, reading, and writing. Students must also complete any prerequisites on this guide. As part of their training program, students must begin with courses within their skill levels as determined by placement test scores. 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.

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___	Approved 3-4 credit computer science class, CS120 or above or computer proficiency [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**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
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	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	3-4
		18-20
Third Term		
LIB127	Introduction to Academic Research	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	4
		15
Total First Year Credits		**52-54**

Second Year Required Courses

Course No.	Course Title	Credits
Fourth Term		
EET101	Introduction to Electronics	3
GS104	Physical Science w/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	1-4
		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	1-5
		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 I w/lab and recitation	5
CHEM105,106	Introductory Chemistry II, III w/lab	4-4
CHEM221,222,223	General Chemistry I, II, III w/lab and recitation	5-5-5
CS	Any CS applications course (CS125SS highly recommended)	variable
CS133U	Introduction to C++ Programming	4
CS233U	Advanced C++ Programming	4
CS140	Introduction to Operating Systems	4
CS161	Computer Science I	4
CS162	Computer Science II	4
CS179	Introduction to Networks	4
CS240	Advanced Operating Systems	4
EET106	Electronic Assembly	3
EET129	Introduction to Embedded Systems	5
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 w/ Lab	3
ENGR202	Electrical Fundamentals II w/ Lab	3
ENGR211	Statics	3
ENGR212	Dynamics	3
ENGR213	Strength of Materials	3
MEC103	Industrial Safety (Highly Recommended)	1
MEC130	Hydraulics I	3
MEC240	Robotics I	3
MFG280	Cooperative Work Experience/Manufacturing	variable
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
MFG232	Electric Motor Control I	3

MFG233	Electric Motor Control II	3
MFG244	CNC Programming – Lathe	3
MFG280S	CWE/Manufacturing Seminar	1
MFG291	Laser Cutting and Engraving Fundamentals	2
MTH65	Fundamentals of Algebra II 2 or higher level math courses	variable
PH201,202,203	General Physics I, II, III w/lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III w/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

[1] Required for graduation. Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] 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@roguecc.edu
Web address . . . . . www.roguecc.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.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 take a placement test to determine skill level and readiness in math, reading, and writing. Students must also complete any prerequisites. As part of their training program, students must begin with courses within their skill levels as determined by placement test scores. 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.roguecc.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 [1]
- Computer-controlled machine tool operators (metal and plastic) [1]

Computer Numerical Control (CNC) Technician
Certificate of Completion (51-53 credits)
- Computer Numerical Control (CNC) Technician [1]
- Computer Aided Drafter/Designer (CAD) [1]
- Entry-level machinist [1]

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 [1]
- Machinist [1]
- Engineering assistant [1]

Manufacturing/ Engineering Technology – Associate of Applied Science (AAS) Degree (97-108 credits)
- Mechanical engineer [1]
- Manufacturing engineer [1]
- Industrial engineer [1]
- Materials engineer [1]

Articulated with OT's Mechanical Engineering Technology program Bachelor of Science (BS)
- Mechanical engineer [1]
- Manufacturing engineer [1]
- Industrial engineer [1]
- Materials engineer [1]

Management, SOU, Bachelor of Applied Science articulated with RCC's AAS degree
- Supervisor/Manager [1]
- Business owner [1]

Manufacturing Engineering OT's Master of Science
- Engineering manager [1]
- Natural science manager [1]

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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
Total Prerequisite Credits		**0-15**

Required Courses

Course No.	Course Title	Credits
First Term		
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
Second Term		
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
Web address . . . . . 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.

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 take a placement test to determine skill level and readiness in math, reading, and writing. Students must also complete any prerequisites. As part of their training program, students must begin with courses within their skill levels as determined by placement test scores. 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.

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___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [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
First Term		
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**

[1] Required for graduation. Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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 [1]	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**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
MFG101	Introduction to Manufacturing	3
MFG121	Manufacturing Processes I	4
___	Approved humanities electives [2]	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		
MTH243	Probability and Statistics	4
WLD101	Welding Fundamentals I	3
CS125SS	Spreadsheet Applications or	
	BA285 Advanced Business Applications: Excel	4
___	Social science elective [3]	3-4
		14-15
Total First Year Credits		**57-60**

Second Year Required Courses

Course No.	Course Title	Credits
Fifth Term		
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
Sixth Term		
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
Seventh Term		
CHEM104	Introductory Chemistry I w/lab and recitation or	
	CHEM221 General Chemistry I with lab and recitation	5
SP111	Fundamentals of Public Speaking	4
WR227	Technical Writing	4
		13
Total Second Year Credits		**48**
TOTAL PROGRAM CREDITS		**105-108**

[1] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] 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

[3] 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

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 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

Massage Therapy
Certificate of Completion

Fall 2018 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 and the Federation of State Massage Therapy Board's Licensing Examination. 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.

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 take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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
RD90	College Reading or WR91 Fundamentals of Academic Literacy or designated placement test score	0-5
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations [1]	3
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition [1]	3-4
Total Prerequisite Credits		**6-18**

Recommended Preparatory Courses

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
BI211	General Biology I w/lab	4

Required Courses

Course No.	Course Title	Credits
First Term		
CS___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [2]	0-4
HE261	CPR/Basic Life Support Provider or HE252 First Aid/CPR	1-3
MTH63	Applied Algebra I MTH60 Fundamentals of Algebra I or BT160 Business Math or higher level math	4
___	Approved program elective(s)	0-2
		5-13
Second Term		
BI121	Elementary Anatomy and Physiology I w/lab or BI231 Anatomy and Physiology I w/lab [3]	4
MT100	Massage I – Basic Swedish	3
MT101	Asian Bodywork I	2
MT108	Kinesiology for Massage Therapists w/lab	4
___	Approved program elective(s)	0-4
		13-17
Third Term		
BI122	Elementary Anatomy and Physiology II w/lab or BI232 Anatomy and Physiology II w/lab and BI233 Anatomy and Physiology III w/lab 3	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

(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

[1] Required for graduation. Students who have successfully completed the 3-credit version of BT113 will have met the writing requirement.

[2] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science advisor to help determine placement.

[3] 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:

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Massage Therapy: Entry-level Therapist

Career Pathways Certificate

Fall 2019 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. 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.roguecc.edu/GainfulEmployment.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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 orienta¬tion 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 [1]

Massage Therapy: Certificate of Completion (50-60 credits)
- Massage therapist [1]

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at www.roguecc.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
First Term		
BI121	Elementary Anatomy and Physiology I w/lab	4
MT100	Massage I – Basic Swedish	3
MT101	Asian Bodywork I	2
MT108	Kinesiology for Massage Therapists w/lab	4
	Approved program elective	2
		15
Second Term		
BI122	Elementary Anatomy and Physiology II w/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:

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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
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 take a placement test to determine skill level and readiness in math, reading, and writing. Students must also complete any prerequisites on this guide. As part of their training program, students must begin with courses within their skill levels as determined by placement test scores. 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	Approved 3-4 credit computer science class, CS120 or above or computer proficiency [1, 2]	0-4
MEC102	Basic Hand Tools or demonstrated proficiency	0-3
MTH63	Applied Algebra I or higher level math [1]	4
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition [1]	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
MFG116	Metrology	2
MFG121	Manufacturing Processes I	4
WLD111	Technology of Industrial Welding I or WLD101 Welding Fundamentals I and WLD102 Welding Fundamentals II	6
		17
Second Term		
HE112	Emergency First Aid	1
MEC130	Hydraulics I	3
MEC135	Mechanical Drives I	4
MET105	Blueprint Reading – Mechanical	3
MFG122	Manufacturing Processes II	4
		15
Third Term		
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
EET150	PLC Motor Control	3
MEC125	Pneumatics I	3
MFG210	AC/DC Electrical Systems for Manufacturing	3
MFG232	Electric Motor Control I	3
		15
Total First Year Credits		**47**

Second Year Required Courses

Course No.	Course Title	Credits
Fourth Term		
EET151	Programming PLCs I	4
MEC124	Hoisting and Rigging	3
MEC231	Hydraulics II	4
MFG233	Electric Motor Control II	3
——	Approved program elective	2-8
		16-22
Fifth Term		
GS104	Physical Science with lab or approved program elective	4
LIB127	Introduction to Academic Research	1
MEC236	Mechanical Drives II	4
WR121	English Composition I or BT114 Business English II or higher level composition	4
——	Approved program elective	0-5
		13-18
Sixth Term		
MFG280	Cooperative Work Experience/Manufacturing	4
——	Approved program electives	11-17
		15-21
Total Second Year Credits		**44-61**
TOTAL PROGRAM CREDITS		**91-108**

Approved Program Electives

(13-30 credits required)

Mechanical Focus (Hydraulics, PNL, Drives)

Course No.	Course Title	Credits
MEC226	Pneumatics II	3
MEC228	Pneumatic Fittings and Troubleshooting	4
MEC233	Hydraulic Troubleshooting	4
MEC238	Mechanical Drives III	4
MET101	Mechanical Drafting	3
MFG211	Manufacturing Power and Control Electronics	4
MFG215	Electronic Control Systems	3
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	5

EET130	Digital Fundamentals I	6
EET131	Digital Fundamentals II	6

Robotics Focus

Course No.	Course Title	Credits
MEC240	Robotics I	3

[1] Required for graduation.

[2] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science advisor to help determine placement.

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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.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 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 take a placement test to determine skill level and readiness in math, reading, and writing. Students must also complete any prerequisites on this guide. As part of their training program, students must begin with courses within their skill levels as determined by placement test scores. 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
CS	Approved 3-4 credit computer science class, CS120 or above or computer proficiency [1, 2]	0-4
MEC102	Basic Hand Tools or demonstrated proficiency	0-3
MTH63	Applied Algebra I or higher level math [1]	4
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition [1]	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
MFG116	Metrology	2
MFG121	Manufacturing Processes I	4
WLD111	Technology of Industrial Welding I or WLD101 Welding Fundamentals I and WLD102 Welding Fundamentals II	6
		17
Second Term		
HE112	Emergency First Aid	1
MEC130	Hydraulics I	3
MEC135	Mechanical Drives I	4
MET105	Blueprint Reading – Mechanical	3
MFG122	Manufacturing Processes II	4
		15
Third Term		
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
EET150	PLC Motor Control	3
MEC125	Pneumatics I	3
MFG210	AC/DC Electrical Systems	3
MFG232	Electronic Motor Controls I	3
		15
TOTAL PROGRAM CREDITS		**47**

[1] Required for graduation.

[2] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

For more information contact the Manufacturing and Engineering Technology Department:

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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 one- to two-term Mechatronics Maintenance Technician Career Pathways Certificate prepares students for entry-level positions in today's fast-paced manufacturing environment. A typical position for graduates of the program is production maintenance helper. Completion of the program begins initial courses of the Mechatronics AAS 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 take a placement test to determine skill level and readiness in math, reading, and writing. Students must also complete any prerequisites on this guide. As part of their training program, students must begin with courses within their skill levels as determined by placement test scores. 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.

Career Pathways Certificate (CPC) — Mechatronics: Maintenance Technician (12-21 credits)
- Installation & Maintenance Helper [1]
- Machinist Helper [1]

Certificate of Completion (CC) — Mechatronics Specialist (47 credits)
- Mechatronics Technician [1]
- Assembly Technician [1]
- Engineering Technician [1]
- Manufacturing Technician [1]
- Calibration Technician [1]

Associate of Applied Science (AAS) — Mechatronics (91-108 credits)
- Mechanical Engineering Technician [1]
- Industrial Engineering Technician [1]
- Manufacturing Maintenance Technician [1]

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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___	Approved 3-4 credit computer science class, CS120 or above or computer proficiency [1]	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	5
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		**12-21**

[1] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science advisor to help determine placement.

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

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.

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

Medical Administrative Assistant is a cohort-based program and enrollment is limited. Students are required to take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. Cohort students must meet certain minimum academic requirements (MTH20, RD90 and WR90 or designated placement scores) before starting the program. Visit 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
CS___	Approved 3-4 credit computer science class, CS120 or above, or documented computer proficiency [1]	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**

Required Courses

Course No.	Course Title	Credits
First Term		
AH100	Medical Terminology: Introduction	3
AH105	Communication and Professional Behavior	2
AH120	Medical Administrative Assistant I	4
BT113	Business English I or WR115 Introductory to Expository Writing or higher level composition	3-4
		12-13
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
BA109	Ready, Set, Work: Techniques for Landing a Job	2
	Approved program elective(s)	0-4
		12-16
TOTAL PROGRAM CREDITS		**24-29**

Approved Program Electives [2]

(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

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] 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
Web address . . . . . 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 triage. Other duties may include waive 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 a national 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 and ASCP www.ascp.org/. Students attend classes as part of a cohort structure and most courses will be offered online or in the evening.

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

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 take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. Cohort students must meet certain minimum academic requirements (CS120, MTH60 or MTH63, and WR115 or designated placement test scores) before the program start date.

Program admission occurs two times per year. Visit www.roguecc.edu/alliedhealth/ma for program application details. Students must show evidence of beginning the Hepatitis B immunization series during the first term or sign a waiver acknowledging the risk factors involved without the immunization. They must complete all health and immunization requirements and background check prior to starting the program, and a drug screen prior to starting practicum experience. This screening process is through Certified Background and 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

Course No.	Course Title	Credits
CS___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
HE252	First Aid/CPR or HE261 CPR/Basic Life Support Provider and HE112 Emergency First Aid [2]	2-3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or designated placement test Score	0-4
WR115	Introductory to Expository Writing or BT113 Business English I or higher level composition class or designated placement test score	0-4
Total Prerequisite Credits		**2-15**

Required Core Courses

Course No.	Course Title	Credits
First Term		
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 [3]	3
———	Approved program elective(s)	0-3
		14-17
Second Term		
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

Third Term

AH171	Medical Assistant Practicum and Seminar	8
EMS160	Electrocardiogram (ECG) Interpretation	2
EMS165	Introduction to Pharmacology for Health Occupations	2
		12

TOTAL PROGRAM CREDITS **41-44**

Approved Program Electives

(0-3 credits allowed):

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
WR110	Understanding English Grammar	2

[1] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] American Heart Association (AHA) certification must remain current for the duration of the program.

[3] 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/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 American Society of Clinical Pathologists (ASCP) phlebotomy certification exam. Students do not automatically become certified through this program but may take the appropriate tests through ASCP after completing the program. The curriculum was written using the standards and guidelines for the ASCP phlebotomy certifications and can be reviewed at www.ascp.org.

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 ASCP Phlebotomy exam.

Entry Requirements/Application Process

Program admission occurs once per year. Visit 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.

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 [1]

Medical Assistant — Certificate of Completion (41-44 credits)
- Medical Assistant (MA) [1]

Health Care Management with Clinical options, OT — Bachelor of Science articulated with RCC's Medical Assistant certificate
- Medical and health services manager [1]

[1] For current wage and gainful employment data, see the Jobs & Wages box within the specific program roadmap at 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
CS___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
HE252	First Aid/CPR or HE261 CPR/Basic Life Support Provider and HE112 Emergency First Aid [2]	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
First Term		
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 [3]	3
TOTAL PROGRAM CREDITS		**13**

[1] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] American Heart Association (AHA) certification must remain current for the duration of the program.

[3] 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/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.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 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

Medical Coding Specialist is a cohort-based program. Enrollment is limited. Students are required to take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. Cohort students must meet certain minimum academic requirements (MTH20, RD90 and WR90 or WR91 or designated placement scores) before starting the program. Please visit www.roguecc.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

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 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
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
First Term		
AH100	Medical Terminology: Introduction	3
BI100SB	Biology of Human Systems	3
BT113	Business English I or WR115 Introduction to Expository Writing or higher levelcomposition	3-4
CS___	Approved 3-4 credit computer science class, CS120 or above, or documented computer proficiency [1]	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		
BA109	Ready, Set, Work: Techniques for Landing a Job	2
AH140	Basic CPT Coding	4
AH141	Basic Coding in ICD-10-CM	4
	Approved program elective(s)	2-4
		12-14
TOTAL PROGRAM CREDITS		**36-43**

Approved Program Electives [2]

(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
CS125SS	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

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] 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
Web address . . . . . www.roguecc.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.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 take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with courses within their skill levels as determined by placement test scores. Students are also required to complete any prerequisites listed. 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 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___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	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
First Term		
EET129	Introduction to Embedded Systems	5
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	3-4
		12-14
Second Term		
EET125	Electronics Fundamentals I	6
HE112	Emergency First Aid or approved health elective (see this catalog for approved list of electives)	1-3
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
___	Approved program elective(s) [2]	0-2
		10-14
Third Term		
CS227	PC Hardware Fundamentals and Repair	5
EET130	Digital Fundamentals I	6
EET127	Exploring the Raspberry Pi	3
		14
Fourth Term		
CS140	Introduction to Operating Systems	4
EET131	Digital Fundamentals II	6
EET180	Cooperative Work Experience/Electronics or approved program elective(s) [2]	4-6
		14-16
TOTAL PROGRAM CREDITS		**50-58**

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 science course, CS125 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
EET150	PLC Motor Control	3
EET151	PLC Programming I	4
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

[1] Required for graduation. Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] 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

Music 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 music major vary at each university.

Course No.	Course Title	Credits	AAOT Category
MTH111	College Algebra	4	Math
MUS111	Music Theory and Aural Skills I	4	Elective
MUS112	Music Theory and Aural Skills II	4	Elective
MUS113	Music Theory and Aural Skills III	4	Elective
MUS201	Introduction to Western Music	4	Humanities
MUS206	Introduction to Rock Music	4	Elective
MUS211	Music Theory and Aural Skills IV	4	Elective
MUS212	Music Theory and Aural Skills V	4	Elective
MUS213	Music Theory and Aural Skills VI	4	Elective
MUS264, 265, 266	History of Rock I, II, III	3, 3, 3	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
Southern Oregon University	www.sou.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

Nursing

Associate of Applied Science Degree

Fall Term 2019 Program Admission

About the Program

RCC is a member of the Oregon Consortium for Nursing Education (OCNE) and offers a competency-based curriculum jointly developed by nursing faculties from the 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).

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 nursing program are:

Base personal and professional actions on a set of shared core nursing values, including

social justice, caring, advocacy, protection from harm, respect for self and others, collegiality, and ethical behavior; notice, interpret, respond and reflect on ethical dilemmas using ethical principles and frameworks as a guideline.

Develop insight through reflection, self-analysis, and self-care.

Engage in intentional learning, developing self-awareness of learning and effects on client care, seeking new, relevant knowledge and skills.

Demonstrate leadership in nursing and health care to meet client needs, improve the health care system, and facilitate community problem solving.

Collaborate as part of a health care team, receiving, using and giving constructive feedback.

Practice within, utilize, and contribute to the broader health care system.

Practice relationship-centered care, based on empathy and caring, deep understanding of the care experience, and mutual trust and respect for the autonomy of the client.

Communicate effectively and therapeutically, with attention to elements of cultural influences, and using appropriate modalities and technologies.

Make sound clinical judgments through noticing, interpreting and responding, using best available evidence, frameworks and systems to organize data and knowledge; accurately perform skills while maintaining patient and personal safety.

Locate, evaluate, and use the best available evidence.

Entry Requirements

As As part of their training, students must begin with the courses within their skill levels as determined by placement test scores. In addition, students may also be required to enroll in classes that would increase their 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, 2019, or the first business day thereafter, for fall term 2019 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. 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 admitted 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. Nursing students attend classes at the Redwood Campus in Grants Pass 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 2019-20 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 to or place on probation applicants with convictions for certain crimes. Contact the OSBN with any questions.

Prerequisites/Required Preparatory Courses[1]

Course No.	Course Title	Credits
BI211	General Biology I with lab (or department chair acceptance of transfer biology with genetics) [2]	4
BI231	Anatomy and Physiology I with lab (within last seven years) [2]	4
BI232	Anatomy and Physiology II with lab (within last seven years) [2]	4
BI233	Anatomy and Physiology III with lab (within last seven years) [2]	4
BI234	Microbiology with lab [2]	4
CS	Approved 3-4 credit computer science class, CS120 with lab or above within 10 years (or documented computer proficiency) [3]	0-4
MTH95	Intermediate Algebra or higher level math	4
NFM225	Nutrition	4
PSY201	General Psychology I [4]	4
PSY215	Life Span Human Development	4
WR121	English Composition I [4]	4
WR122	English Composition II [4]	4
———	Any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science electives) [5]	0-6
Prerequisite/Preparatory Credits to be Eligible to Apply [1]		**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 [6]

Course No.	Course Title	Credits
Fall Term		
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 [7]	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) [9]	(6)

Second Year Nursing Course Requirements

Course No.	Course Title	Credits
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 7	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 7	6
		15

Spring Term

NRS224	Integrative Practicum	9
——	Any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science electives [7]	3
		12

TOTAL PROGRAM CREDITS BEYOND 30 PREREQUISITE CREDITS **100-104**

[1] 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.

[2] 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.

[3] 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.

[4] 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.

[5] 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.

[6] General education courses in this year may be completed during summer term but must be completed to progress to second year nursing courses.

[7] 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.

[8] 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.

[9] 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, 2019. 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.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. In addition students may also be required to enroll in courses 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
Writing (two courses required)		
WR121	English Composition I	4
WR122	English Composition II or	
	WR227 Technical Writing	4
Oral Communication (one course required)		
SP111	Fundamentals of Public Speaking	4
SP115	Intercultural Communication	4
SP218	Interpersonal Communication	4
Mathematics (one course required)		
MTH105	Introduction to Contemporary Mathematics 1	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 1	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
TOTAL FOUNDATIONAL SKILLS CREDITS		**15-17**

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	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	The Chicano/Latino Historical Experience	4
SOC243/CJ243	Drugs, Crime and Addiction	4

Science/Math/Computer Science [2]

(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
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 I with lab and recitation	5
CHEM105,106	Introductory Chemistry II, III with lab	4-4
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
CS161,162	Computer Science I, II	4-4
CS233u	Advanced C++ Programming	4
CS260	Data Structures I	4
MTH105	Introduction to Contemporary Mathematics 2, 3	4
MTH111	College Algebra 3	4
MTH112	Elementary Functions 3	4
MTH211,212,213	Fundamentals of Elementary Math I, II, III 3	5-5-5
MTH243	Probability and Statistics 2, 3	4
MTH244	Inferential Statistics 3	4
MTH251,252,253	Calculus I, II, III 3	5-5-5
MTH254	Vector Calculus 3	5
MTH256	Differential Equations 3	5
MTH261	Linear Algebra 3	5
NFM225	Nutrition	4

TOTAL DISCIPLINE REQUIREMENTS CREDITS 29-39

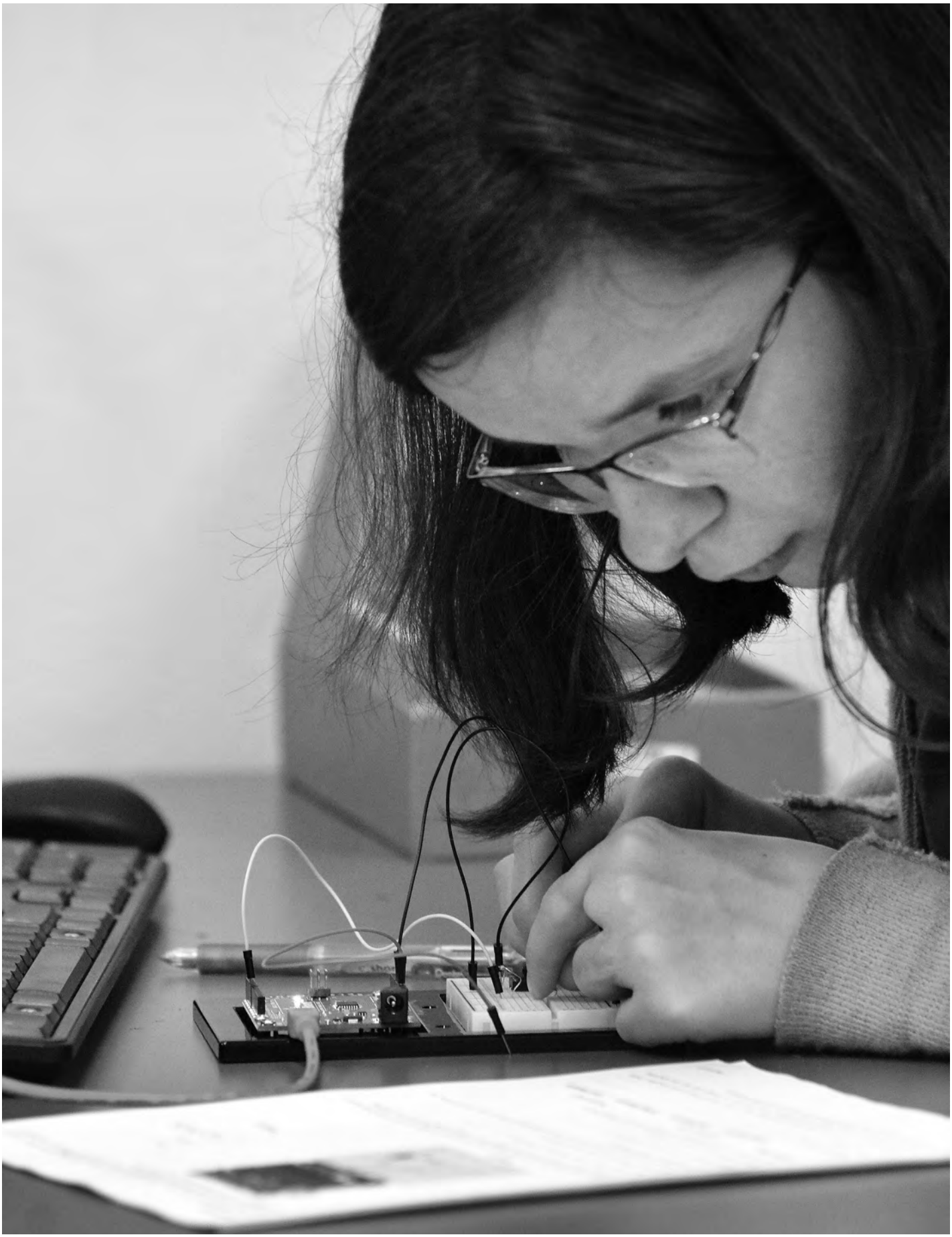
Electives

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 45-56

[1] 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.

[2] 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@roguecc.edu
Web address . . . . . www.roguecc.edu
TTY . . . . . Oregon Telecom Relay Service, 711

Outdoor Adventure Leadership 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 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 take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
RD90	College Reading or designated placement test score	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		**0-15**

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 [2]	9-12
___	Approved social science electives [3]	6-8
	Approved science electives [4]	11-15
Total General Education Requirements		**43-52**

Core Requirements

Course No.	Course Title	Credits
ENV111	Introduction to Environmental Science	3
HE253	Wilderness First Aid	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 [5]	21

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):

PE185SK	Sea Kayaking the Oregon Coast	1
PE185RR	River Rafting Adventure	1
PE185WK	Whitewater Kayaking	1
PE185SC	Open Water SCUBA Diving	1
PE185S	Surfing	1
Total Core Credits		**47**
TOTAL PROGRAM CREDITS		**90-99**

[1] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] 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
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 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
IS110,111	Introduction to International Studies	4-3
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	The Chicano/Latino Historical Experience	4

[4] 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 I with lab and recitation	5
CHEM105,106	Introductory Chemistry II, III with lab	4-4
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CS195	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

[5] Approved Program Electives

(complete 21 credits for a total of 90 program credits)

Course No.	Course Title	Credits
HE131	Introduction to Exercise and Sport Science	3
HE199	Special Studies in Health	1-3
HE208	HIV and Other Epidemics	1
HE250	Personal Health	3
HE252	First Aid/CPR	3
HE259	Care and Prevention of Athletic Injury	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

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 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 or rvchealthpe@roguecc.edu

Web address . . . . . www.roguecc.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

As part of their training program, students are required to take a placement test to determine skill levels in math, reading and writing. Students must begin with the courses within their skill levels as determined by placement test scores.

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.roguecc.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 w/lab [1]	4
——	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [2, 3]	0-4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I 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
Total Prerequisite Credits		**4-19**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
AH100	Medical Terminology: Introduction	3
BI231	Anatomy and Physiology I w/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 w/lab	4
ES132	EMT Part II	4
ES132L	EMT Part II Lab	1
EMS170	Emergency Communication and Documentation	2
MTH96	Applied Algebra II or MTH95 Intermediate Algebra or higher level math	4
		15
Third Term		
BI233	Anatomy and Physiology III w/lab	4
ES171	Emergency Vehicle Operations	2
ES205	Crisis Management	3
ES268	Emergency Service Rescue	3
WR121	English Composition I	4
		16
Total First Year Credits		**47**

Second Year Required Courses

Course No.	Course Title	Credits
Fourth Term		
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
Fifth Term		
EMS272	Paramedic Part II	8
EMS272L	Paramedic Lab Part II	2
EMS282	Paramedic Clinical Practice II	2

HPE295	Health and Fitness for Life or	
FRP295	Health and Fitness for Emergency Service Workers	3
		15

Sixth Term

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

Seventh Term

EMS284	Paramedic Clinical Practice IV	8
——	Approved program elective	3-7
		11-15
Total Second Year Credits		**56-61**
TOTAL PROGRAM CREDITS		**103-108**

Approved Program Electives

(3-7 credits required)

Course No.	Course Title	Credits
AH110	Medical Terminology: Clinical	3
ASL101,102,103	First Year American Sign Language I, II, III	4-4-4
BT102	Introduction to Supervision	3
BT111	Conflict Management	2
CG144	Introduction to Assertiveness	1
CHEM104	Introductory Chemistry w/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 w/Lab	5
EMS212/L	Advanced EMT Part II w/Lab	5
EMS213/L	Advanced EMT Part III w/Lab	3
EMS299	Workshop: EMS Training	variable
ES222	Advanced EMT Intermediate – Clinical Practice II	1
ES223	Advanced EMT Intermediate – Clinical Practice III	2
ES280	Cooperative Work Experience/EMS	1-6
FRP251	Firefighter Level I [4]	3
FRP251L	Firefighter Level I Lab [4]	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.

[1] BI211 is a prerequisite to BI231; CHEM104 also highly recommended.

[2] Required for graduation.

[3] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science adviser to help determine placement.

[4] 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
Web address ..... www.roguecc.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, 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.

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

Pharmacy Technician is a cohort-based program and enrollment is limited. Students are required to take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. Cohort students must meet certain minimum academic requirements (AH100, BT113 or WR115 or designated placement test score, CS120 or documented proficiency, MTH60 or MTH63 or designated placement test score), before starting the program. Visit www.roguecc.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
AH100	Medical Terminology: Introduction	3
BT113	Business English I or	
	WR115 Introductory to Expository Writing or designated placement test score	0-4
CS ___	Approved 3-4 credit computer science class, CS120 or above, or documented computer proficiency [1]	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
First Term		
BI100SB	Biology of Human Systems [2]	3
DA202	Infection Control	2
HCI120	Introduction to the Health Care Industry	3
HE252	First Aid/CPR	3
PRX101	Pharmacy Technician I	4
		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
	Approved program elective(s)	3-4
		17-18
TOTAL PROGRAM CREDITS		**32-33**

Approved Program Electives [3]

(3-4 credits required)

BT111	Conflict Management	2
CG144	Introduction to Assertiveness	1
CG155	Exploring Careers in Health Care	3
HE112	Emergency First Aid	1
HE261	CPR/Basic Life Support Provider	1
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

[1] Successful completion of CS120, or otherwise meeting the proficiency requirement within the last 10 years, fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] 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 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 physics major vary at each university.

Course No.	Course Title	Credits	AAOT Category
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
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
PH211	General Physics I (Calculus Based) with lab and recitation	5	Science
PH212	General Physics I (Calculus Based) with lab and recitation	5	Science
PH213	General Physics I (Calculus Based) with lab and recitation	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
Southern Oregon University	www.sou.edu
University of Oregon	www.uoregon.edu

Practical Nursing
Certificate of Completion

2019 Year

About the Program

Rogue Community College offers a limited-entry, three-term 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.

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

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, 2018, for January 2019 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. As part of their training program, students must begin with courses within their skill levels as determined by placement test scores.

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 or the Nursing Department chair to obtain a course substitution, 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, 2018, 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 (to remain current throughout program). The CPR course must comply with the American Heart Association standards.

AH100 Medical Terminology and CNA work experience are recommended before application. 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.

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 in January 2019. 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 or place on probation applicants with convictions for certain crimes. 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 and 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 w/lab (within last seven years or BI231 and BI232 if both completed with labs within last seven years) [1]	4
MTH65	Fundamentals of Algebra II or higher level math [2]	4
WR115	Introduction to Expository Writing (or designated placement test score or completion of WR121)	0-3
CNA-1	Basic Nursing Assistant (including skills lab and clinical or other OSBN-approved CNA-1 course with completion certificate; course proof waived for students with copy of current OSBN CNA-1 certification attached to application) [3]	–
TOTAL PREREQUISITE CREDITS		**8-11**

Required Preparatory Courses

Course No.	Course Title	Credits
BI122	Elementary Anatomy and Physiology II w/lab or BI233 Human Anatomy and Physiology III within last seven years if student completed BI231 and BI232 as prerequisites [1]	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	Approved 3-4 credit computer science class, CS120 or above or transcripted computer proficiency within 10 years [4]	0-4
WR121	English Composition [5]	4
TOTAL PREPARATORY CREDITS		**8-13**

Required Courses

Course No.	Course Title	Credits
Winter (First) Term		
PN101	Practical Nursing I	8
PN101C	Practical Nursing I Clinical	3
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
		14
Spring (Second) Term		
PN102	Practical Nursing II	8
PN102C	Practical Nursing II Clinical	4
—	Approved program elective	0-3
		12-15
Summer (Third) Term		
PN103	Practical Nursing III	8
PN103C	Practical Nursing III Clinical	4
PN104C	Practical Nursing Leadership Clinical (post-summer session) [6]	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
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
WR110	Understanding English Grammar	2

[1] 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.

[2] Transcripted course required for graduation.

[3] 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 accep¬tance and be admitted to the first practical nursing course the following winter term.

[4] 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.

[5] WR121, 3 credits, completed before summer of 2009 is also acceptable.

[6] 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 Medford. 541-956-7308
Toll free in Oregon . . . . . .800-411-6508, Ext. 7308
Email . . . . . practical nursing@roguecc.edu
Web address . . . . . .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 I 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 I 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	www.uoregon.edu
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

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	www.eou.edu
Oregon Institute of Technology	www.oit.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

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.

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 take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program students must begin with courses within their skill levels as determined by placement test scores. Students are also required to complete any prerequisites listed. 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___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	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
First Term		
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
Second Term		
EET118	Introduction to Renewable Energy Systems (RES)	5
EET129	Introduction to Embedded Systems	5
WR115	Introduction to Expository Writing or WR121 English Composition I	3-4
		13-14
Third Term		
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		**51-55**

Approved Program Electives

(3-6 credits required)

Course No.	Course Title	Credits
CS125	Any computer science course, CS125 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	44

[1] Required for graduation. Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

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
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.

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.

Entry Requirements

Students are required to take a placement test to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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 CS233U and CS234U for transfer.

Prerequisites

Course No.	Course Title	Credits
CS___	Approved 3-4 credit computer science class, CS120 or above or documented computer proficiency [1]	0-4
EET129	Introduction to Embedded Systems	5
MTH111/112	College Algebra/Elementary Functions	0-8
RD90	College Reading or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
Total Prerequisite Credits		**5-24**

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 [2]	7-8
TOTAL GENERAL EDUCATION REQUIREMENTS		**58-59**

Core Requirements

Course No.	Course Title	Credits
CS133U	Introduction to C++ Programming	4
CS140	Introduction to Operating Systems	4
CS233U	Advanced C++ Programming	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**

[1] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science adviser to help determine placement.

[2] 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

Note: Students who have graduated from high school or completed a high school equivalency program in 1997 or after must have: 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 for admission to a four-year Oregon college or university. If students plan to complete a Bachelor of Arts (BA) degree at a four-year school, they must have two years of same college-level world language.

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

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.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 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

Sterile Processing Technician is a cohort-based program. Enrollment is limited. Students are required to take a placement test to determine skill level and readiness in math, reading and writing. As part of their training program, students must begin with the courses within their skill levels as determined by placement test scores. 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. Please visit 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 three 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	Approved 3-4 credit computer science class, CS120 or above	
	or documented computer proficiency [1]	0-4
MTH60	Fundamentals of Algebra I or	
	MTH63 Applied Algebra I or designated placement test score	0-4
Total Prerequisite Credits		**0-12**

Required Courses

Course No.	Course Title	Credits
First Term		
AH100	Medical Terminology: Introduction	3
HE252	First Aid/CPR or	
	HE112 Emergency First Aid and	
	HE261 CPR/Basic Life Support Provider [2]	2-3
SPT101	Sterile Processing I	4
SPT123	Legal and Ethical Issues for Sterile Processing Technicians	2
———	Approved program elective(s)	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 [3]	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
TOTAL PROGRAM CREDITS		**37-42**

Approved Program Electives [4]

(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

[1] Successful completion of CS120 or otherwise meeting the proficiency requirement within the last 10 years fulfills this requirement. Contact a computer science advisor to help determine placement.

[2] American Heart Association (AHA) Certification must remain current for the duration of the program.

[3] 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/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
TOTAL REQUIRED CREDITS		**9-10**

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
WR227	Technical Writing	4
——	Cooperative Work Experience as approved within major [1]	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
SOC235	The Chicano/Latino Historical Experience	4
SOC218	Sociology of Gender	4
——	Cooperative Work Experience as approved within major [1]	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, transcripted degree or certificate but recognizes student achievement in a specific topic or theme. Focus awards may be earned in combination with a certificate or degree. Classes are lower-division collegiate courses (except where noted) that may transfer to a variety of programs at a four-year college or university as elective credits, program requirements, and/or graduation requirements for the receiving institution. Students are encouraged to check with the receiving institution and their RCC academic advisor for the most accurate transfer requirement information.

[1] A maximum of 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
TTY ..... Oregon Telecom Relay Service, 711

Back to the
Fifties
IT'S THE CLIMATE

Continuing Education

www.roguecc.edu/ContinuingEducation

Continuing Education provides life-long learning opportunities to enhance fulfillment and personal success of residents in the service region. Learning events in line with the community's needs in all areas of workforce/business, private/public organizations and personal enrichment are focused upon. 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
- Commercial Truck Driver Training
- Communication Skills and Customer Service
- Computer Training
- Culinary
- Customer Service
- Development of Evaluation Tools to Measure Training Effectiveness
- Forklift Operator Safety Training
- High School Driver Education
- Home & Garden
- Human Resource Development and Consulting
- Kids' College
- Language
- Leadership Training
- Lean Manufacturing
- Manufacturing, CAD/CAM, and Technical Training
- Music & Theater
- Quality and Productivity Improvement
- Special Events and Meeting Space Coordination
- Tourism/Hospitality
- Traffic Control Flagger
- Writing

Community Education

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/department/commercial-truck-driver-training

- 541-956-7116

Customized Training

www.roguecc.edu/Workforce/

- Josephine or Jackson County. 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.

Needs analysis

Continuing Education provides an assessment of needs to develop training that produces 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 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.rccdrivered.com

541-956-7116

- High School Driver Training
- Young Adult Driver Training

Short-Term Skills Training

www.roguecc.edu/Workforce/

- Josephine or Jackson County, 541-956-7303

Josephine or Jackson County. 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 Computer Technology, Business & Leadership, Commercial Truck Driver Training, Welding, Forklift, Flagger, Young Adult and High School Driver's Training, and Oregon OSHA. 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.

Small Business Development Center

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

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.

KURT
KURT

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

Prepares students to take the American Society for Clinical Pathology (ASCP) Phlebotomy certification examination. The examination requires 40 hours of classroom training in anatomy and physiology of the circulatory system, specimen collection, specimen processing and handling, and laboratory operations (e.g., safety, quality control, etc.), and 100 clock hours of clinical training and orientation in an accredited laboratory with a minimum performance of 100 successful unaided blood collections (venipunctures and skin punctures). This course, taken with AH170, prepares students to take the exam. Prerequisite: Acceptance 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 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. It introduces the concepts and skills related to patient and facility scheduling, patient intake, office logistics, privacy, and basic workplace safety. Prerequisite: Acceptance into the Medical Administrative Assistant program.

AH121 4 credits
Medical Administrative Assistant II

Builds upon the themes and skills introduced in AH120. It 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: Acceptance 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. It 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: Acceptance into any Allied Health cohort 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: Acceptance 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: Acceptance 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, MTH20, and RD90, or designated placement test scores.

AH170,AH171 28 credits each
Medical Assistant Practicum and Seminar

Provides hands-on clinical experience. Students work an average of 12 hours per week in a host site as part of the patient care team and experience first-hand the various operations within a primary, specialty and/or urgent care settings. 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 conclud-

ing seminar to reflect on work experiences. Prerequisites: Acceptance into the Medical Assistant competitive-entry cohort and successful completion of all first term courses, including AH102.

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. Societies featured may include, but are not limited to, the Trobriand Islanders of the South Pacific and the Ju/'hoansi of Southern Africa. 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.

ANTH150 4 credits
Introduction to Archaeology

Introduces 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 so doing, it illustrates the relationship of culture to environment, a variety of ideas regarding past cultural change, and the role of modern archaeology in preserving the past future generations. 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 22-24 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 18 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 graphic design 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. This course 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, WR122, and at least 15 credits of studio art coursework.

ART199 Variable credit
Special Studies: Art
An introduction and overview of specific topic areas of interest, including media, history, and practice.

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 Graphic Design certificate and degree programs. Prerequisites: 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. It 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. It will reinforce 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. Furthers 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. Furthers 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. Furthers 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.

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
Encourages the student to develop critical as well as creative thinking, through the exploration of materials, processes, concepts, and imagery; through exposure to a wide range of ideas, the student is enabled to develop his or her own sense of direction. This course introduces advanced principles, methods and processes of painting through mini lectures, research, studio work and critique. Concepts based on contemporary ideas and images relating to topic area are explored.

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 and Trades Practices
Introduces basic mechanical shop safety and industrial practices, professionalism and ethics, shop tools and equipment use, and basic automotive maintenance. Course required for all entering Automotive Technology students (may be waived for College Now credit). Program students have priority for enrolling in this class. Prerequisites: MTH20, RD90, and BT113 or WR115, or designated placement test scores.

AM122 7 credits
Gasoline Engines Rebuild
Reviews theory and construction of various gasoline internal combustion engines, proper disassembly and reassembly, and measuring of engine components to determine wear. Includes car servicing and testing of various systems related to basic engine operation. Dual numbered as DS112. Prerequisites: MTH20, RD90, 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 or advisor approval.

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 or advisor approval.

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 or instructor approval.

AM199 1-8 credits
Selected Topic Workshop
Focuses study in a variety of mechanical technology topics to fulfill specific educational goals. Prerequisites: AM111 and AM120 or approval of instructor.

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 or advisor approval.

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 or advisor approval.

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, AM232, and AM233 or instructor approval.

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 or approval of advisor.

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. Prerequisites: Students must be automotive majors and have the approval of the CWE advisor.

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 chemical 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 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 designated placement test score; MO100 and CHEM104 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 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. Prerequisites: Permission of instructor. Other prerequisites may vary depending on subject offerings.

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 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 the 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: BT113 or WR115 or designated placement test scores and BI211 or approved allied health biology course; CHEM104 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 edu-

cation 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. Prerequisites: BI231; CHEM104 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. Prerequisites: BI231 or BI232; CHEM104 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 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.

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 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, email, 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, Outlook 365, and PowerPoint 2016. Prerequisites: MTH20 and BT113 or WR115 or designated placement test scores; CS60 as needed.

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, BA211 or BT151; BA285 or CS125SS recommended.

BA199 Variable credit
Special Studies: Business

Offers selected topics of study in business through workshop, seminar, and independent study formats. Offered on demand. Prerequisite: Permission of instructor.

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. Prerequisites: BA101; BT101 and BT102 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; and secondary stock markets. Prerequisites: BA211 or approval of instructor.

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. Prerequisites: BA211 or approval of instructor.

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, BT114 or WR121, Internet access and working email account; LIB127 (may be taken concurrently); CS125WW recommended.

BA218 3 credits
Personal Finance

Introductory course designed to acquaint the student with principles, terminology, and concepts of personal financial management. Examines consumer protection, budgeting, wise spending habits, avoiding frauds/swindles, purchasing/leasing cars, home rental/purchase decisions, wise use of credit, comparison of home/health/life insurance, investing, estate planning, and other issues affecting personal financial decision making. Prerequisites: BT160, RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement test scores.

BA223 3 credits
Principles of Marketing

Comprehensive course designed to acquaint the student with basic marketing principles, terminology, and applied marketing concepts. Introduces basic concepts of product development, branding, pricing, promotion, and distribution. Consumerism, social and legislative issues, and marketing research are also covered. Prerequisites: BT113 or WR115 and RD90 or designated placement test scores; BA101 recommended.

BA224 3 credits
Human Resource Management

Builds on the information contained in BT101 and BT102. Introduces traditional, current and emerging human resource management (HRM) practices. Students will develop practical and realistic approaches to HRM by focusing on the functions of a human resources department and the responsibilities of a human resources director. 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 and safety 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 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; BT114 or WR115 and RD90 or designated placement test scores.

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 and RD90 or designated placement test scores; BA223 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 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 and permission of Business Technology CWE instructor.

BA282 4 credits
Applied Business Statistics
Builds on the basic knowledge and skills learned in MTH243 and utilizes spreadsheet skills gained in BA285. 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. Dual numbered as MTH244. Prerequisites: RD90 or WR91 designated placement test score, BA131 or CS120, and MTH243; BA285 or CS125SS recommended.

BA285 4 credits
Advanced Business Applications: Excel
Course 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 CS125SS. Prerequisites: CS120 or BA131 and MTH65 or BT160.

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: RD90 or WR91 and BT113 or WR115, or designated placement test scores, and BT101.

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. Prerequisites: RD90 or WR91 and BT113 or WR115, or designated placement test scores.

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: RD90 or WR91 and BT113 or WR115, or designated placement test scores; BA223 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. This course 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 proficiency 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; LIB127 and BA131 (may be taken concurrently); CS125WW recommended.

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 and BA131 or CS120.

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 (from the top down) in order to attract and retain customers and maximize profits. Customer loyalty, principles of quality customer service, service recovery, attitudes and habits that affect service, dealing with 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 will be covered. Useful for employees in all professions that deal with serving customers. Prerequisites: BT101 or PSY101 and BA131 or CS120; BT113 or WR115 and RD90, or designated placement test scores.

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. Prerequisites: BT114 or WR121 and RD90 or WR91, or designated placement test scores.

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, BA131, 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/confidentially 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. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores.

CG105 1 credit
Finding the Money: Scholarship Essay Writing
Teaches students to write effective scholarship essays and develop their own personal essays from initial draft to final essay format. This class explores resources for funding college education, and strategies for effective research via the Internet. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

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 psychology of learning and assists in creating positive tools towards successful math completion. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores, and 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: RD90 and WR115 or designated placement test scores, and CS120 or documented proficiency. Offered infrequently.

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. Prerequisites: RD90 or designated placement test score; BT113 or WR115 (may be taken concurrently); ability to use the Internet, email, and the Rogue Online course management system is also required.

CG199 1 credit
Special Studies: Sexual Awareness

Allows students to explore societal trends, communication barriers, how the sexes portray each other, relationship conflicts, assertiveness, how our beliefs begin, what our responsibility is to ourselves and each other, and the benefits of healthy interactions. 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: RD90 and WR115 or BT113, or designated placement test scores; CS120 recommended.

CHEMISTRY

Lower Division Collegiate

CHEM104 5 credits
Introductory Chemistry I 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 scores.

CHEM105 4 credits
Introductory Chemistry II 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 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 and laboratory sections. Prerequisite: CHEM104.

CHEM106 4 credits
Introductory Chemistry III 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 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 and laboratory sections. Prerequisite: CHEM105.

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 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.

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. Prerequisites: RD90 and WR121 or designated placement test scores. Offered infrequently.

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. Prerequisites: RD90 or designated placement test score and WR121 (may be taken concurrently).

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. Prerequisites: SP100, 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. Offered infrequently.

COMM299 1-4 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. Prerequisites: WR121 or BT114 (may be taken concurrently).

COMPUTER SCIENCE

Lower Division Collegiate

(except where noted)

CS60 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 applications of microcomputers in life. Course is graded on a pass/no pass basis. Course does not transfer. Prerequisites: None.

CS120 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. Prerequisites: MTH20, RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores; CS60 as needed.

CS125D 3 credits
Digital 3D Graphics I
Introduces the principles of developing basic three-dimensional graphic imagery and animations. Students will develop competence in using Blender to create three-dimensional graphics, and study the history of 3D achievements in film, animation, fine arts, and the growing additive manufacturing industry. Topics include various techniques for modeling objects, applying materials and textures, and adding lights and cameras to 3D scenes for accurate rendering. Students will also use a 3D printer to create real objects. Prerequisite: CS120 or documented proficiency; GD150 and GD160 recommended.

CS125DB 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 BA131 or documented proficiency and MTH60, MTH63 or BT160.

CS125DP 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. Prerequisites: CS120 or permission of instructor; ART115 and GD160 recommended.

CS125DV 3 credits
Introduction to 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: CS120 or higher.

CS125PPT 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. Prerequisite: CS120 or documented proficiency, and WR115 or BT113.

CS125SS 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 BA131 and MTH65 or BT160.

CS125V 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 documented proficiency.

CS125WW 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. Prerequisites: CS120 or BA131.

CS133B 4 credits
Visual Basic I
Introduces students with minimal mathematics background to coding and problem solving using the Visual Basic Net programming language. Prerequisites: CS120 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 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 Web pages. Prerequisite: CS195 and MTH65.

CS133U 4 credits
Introduction to C++ Programming
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 and MTH95 or higher, or permission of instructor.

CS135D 3 credits
Digital 3D Graphics II
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.

CS135DV 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: CS125V.

CS135IA 3 credits
Interactive Animation
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 and MTH95.

CS140 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. Prerequisites: CS120 or documented computer proficiency.

CS160 4 credits
Introduction to Computer Science
Explores the disciplines and professions of computer science and software engineering. Provides an overview of computer hardware and software architecture, the study of algorithms, software design and development, data representation and organization, problem-solving strategies, ethics in the digital world, and the history of computing and its influences on society. Explores career options and begins the process of planning a program of study. Exposes students to both low-level and high-level programming languages. Prerequisites: CS120 or documented proficiency and MTH65 or designated placement test score; CS140 recommended.

CS161 4 credits
Computer Science I
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; MTH111 or higher.

CS162 4 credits
Computer Science II

Continues CS161, 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.

CS179 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 documented computer proficiency.

CS195 4 credits
Web Authoring I

Introduces students to Web page and website development, moving on to working with cascading style sheets. Students will learn HTML and CSS for creating special effects and styling. Students will create HTML forms and tables, and will learn how to embed multimedia including the use of audio and video elements. Prerequisites: CS120 and MTH60; WR121 (may be taken concurrently).

CS196 4 credits
Web Authoring II

Follows CS195 and introduces students to advanced concepts of website design and creation using HTML and CSS. Students will develop Web pages 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.

CS199 Variable credit
Special Studies: Computer Science

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.

CS225 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; CS179; WR115 (WR121 recommended.)

CS227 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 and MTH60 or MTH63 or permission of instructor.

CS227N 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 and CS179.

CS233U 4 credits
Advanced C++ Programming

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.

CS234 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. CS233U

CS235 3 credits
Word Press/Content Management Systems (CMS)

Covers the principles and technologies of Web 2.0 using tools based on user-centered design such as social networking, blogs, RSS feeds, wikis, photo archiving, podcasting, and web applications. Online digital storage and privacy issues will also be addressed. Students will use and manage a variety of commonly used tools including Facebook, Twitter, YouTube and WordPress and learn how these tools are used with website marketing and e-commerce business designs. Prerequisite: CS120 or documented proficiency.

CS235W 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.

CS240 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.

CS240L 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.

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 and MTH111; MTH251 (may be taken concurrently).

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. Prerequisites: CS125DB.

CS279 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 (DMS), Dynamic Host Configuration Protocol (DHCP), and system backup and restore. Prerequisites: CS140 and CS179.

CS280 Variable credit
Cooperative Work Experience/ Computer 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: Permission of CWE Instructor or Department Chair.

CS284 4
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 documented Network+ certification.

CS288 4 credits
Network Operating Systems II (Active Directory)

Prepares students to develop the skills needed to manage a Windows Server 2008 system. While the focus of topics is on the configuration of Active Directory and related services, coverage of Windows foundational topics such as the file system and networking are also included. Students will be immersed in an introduction to Windows Server 2008 and goes on to active directory design, account management, group policy management and configuration, certificate services, AD LDS, AD RMS, AD FS, server core, Windows Hyper-V virtualization, and server management. Prerequisites: CS140 and CS179.

CS299 Variable credit
Special Studies: Computer Science

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. Prerequisites: Permission of instructor. Other prerequisites may vary depending on subject offerings.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

CRIMINAL JUSTICE

Lower Division Collegiate
(except where noted)

CJ91 0 credits
Reserve Officer Law Enforcement Academy (ROLEA) Module 1: Orientation to Policing and 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. Course does not transfer.

CJ92 0 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. Course does not transfer.

CJ93 0 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. Course does not transfer.

CJ94 0 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. Course does not transfer.

CJ95 0 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. Course does not transfer.

CJ96 0 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. Course does not transfer.

CJ97 0 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. Course does not transfer.

CJ98 0 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. Course does not transfer. Prerequisite: CJ99.

CJ99 0 credit
Criminal Justice Workshop

Provides a variety of special course offerings, seminars and workshops in various subject areas of criminal justice. Taught by visiting lecturers and/or regular faculty, courses will focus on topics of special concern, training, and crimi-

nal justice and/or community concern. Course offerings will be based upon demand and will vary in length. Course does not transfer.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

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. Prerequisites: RD90 and BT113 or WR115 or designated placement test scores and CJ100; CJ120 recommended.

CJ220 4 credits
Law I: 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 II: 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. Prerequisites: CJ120.

CJ223 4 credits
Law III: 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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores; SP111 and WR121 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: Permission of department chair.

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.

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 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.

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 DA201or 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 time during term. Prerequisites: DA101, DA101A/B and DA202. This 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

Students work an average of 13 per week in a host site (135 hours per term) as part of the dental team. Duties will be assigned according to the student's skill level and the work needs of the host site. Students experience first-hand the carious operations within a dental office primarily as chair-side dental assistants, but practicum experiences may include receptionist duties and bookkeeping. Students will 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. Moderated by an instructor, seminars are designed to define expectations, discuss progress, and evaluate current practicum experiences. Prerequisites to DA152: DA102, DA102A or B, DA150, and DA201, or department approval. Prerequisites to DA1523: DA152. Co-requisites: 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.

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. Prerequisites: None.

DS112 6 credits
Gasoline Engines Rebuild
Reviews theory and construction of various gasoline internal combustion engines and how to rebuild, service, inspect, and repair them. Dual numbered as AM122. Prerequisites: None.

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. Corequisite: DS190.

DS120 6 credits
Diesel Trades 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. Prerequisites: None.

DS131 5 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 4 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 5 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 6 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 6 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 or approval of instructor.

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 4 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 7 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, DS134 and DS232.

DS260 4 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, DS120, and DS131.

DS275 6 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, or approval of instructor.

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, CS120 or documented proficiency; BT113 or WR115 and permission of CWE Instructor or Department Chair.

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. Prerequisites: None.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

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.

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.

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.

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.

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: RD90 and BT113 or WR115, or designated placement test scores; ECE161, ECE163, ED165 or permission of instructor.

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: RD90 and BT113 or WR115, or designated placement test scores; ECE125, ECE163 or ED165 recommended.

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: RD90 and BT113 or WR115, or designated placement test scores; ECE125, ECE161, ECE163 or permission of instructor.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

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: RD90 and BT113 or WR115, or designated placement test scores; ECE125, ECE161, ECE163, ED165 or permission of instructor.

ECE199 1-3 credits
Selected Topics in Early Childhood Education
Studies issues related to early childhood education. Offered infrequently.

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: RD90 and BT113 or WR115, or designated placement test scores; ECE125, 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: RD90 and BT113 or WR115, or designated placement test scores; ECE161, ECE163, ED165 or permission of instructor; ECE250 or ECE251 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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

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 / ECE234C combined. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores; ECE161, ECE163, ED165 or permission of instructor.

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. RD90 and WR115 or designated placement test scores; ECE161, ECE163, or ED165 or permission of instructor.

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. RD90 and WR115 or designated placement test scores; ECE161, ECE163, or ED165 or permission of instructor.

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. RD90 and WR115 or designated placement test scores; ECE161, ECE163, or ED165 or permission of instructor.

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: RD90 and BT113 or WR115, or designated placement test scores; ECE161, 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: RD90 and BT113 or WR115, or designated placement test scores; ECE151; ECE161, ECE163, ED165 or permission of instructor.

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: RD90 and BT113 or WR115, or designated placement test scores; ECE161, ECE163, ED165 or permission of instructor.

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: RD90 and BT113 or WR115, or designated placement test scores; ECE161, ECE163, ED165 or permission of instructor.

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: RD90 and BT113 or WR115, or designated placement test scores; ECE161 or permission of instructor. Offered infrequently.

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: RD90 and BT113 or WR115, or designated placement test scores; ECE163 or permission of instructor.

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: RD90 and BT113 or WR115, or designated placement test scores, ECE161 and ECE163. Offered infrequently.

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: RD90 and BT113 or WR115, or designated placement test scores; ECE163 or permission of instructor.

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: RD90 and BT113 or WR115, or designated placement test scores, and ECE161 or permission of instructor. Offered infrequently.

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: RD90 and BT113 or WR115, or designated placement test scores; ECE163, ED165 or permission of instructor. Offered winter term.

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: RD90 and BT113 or WR115, or designated placement test scores; HS155 and HS158. Offered fall term.

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: RD90 and BT113 or WR115, or designated placement test scores, all required 100-level ECE courses, and ECE254, 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: RD90 and BT113 or WR115, or designated placement test scores; ECE125, ECE161, ECE163, ED165 or permission of instructor.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores.

ECE275 3 credits
Anti-bias Education
Explores the role of the adult in helping children accept and appreciate diversity and uphold values of equity, inclusion and social justice. Course may include an online component. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores; ECE161, ECE163, ED165 or permission of instructor.

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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores; ECE100 or ED259 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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores. Offered infrequently.

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. Prerequisites: BT113 or WR115, or designated placement test scores.

ECON201 4 credits
Principles of Microeconomics
Introduces students to the study of human behavior and choices in a market process, through traditional and modern economic models. Students will analyze relationships in supply and demand, production and cost, output and employment, market structures and political policy. Prerequisites: RD90 and BT114 or WR121; CS125ww 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. Prerequisites: RD90 and BT114 or WR121, or designated placement test scores; CS125WW 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. Prerequisites: BT113 or WR115 (may be taken concurrently).

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. Prerequisites: ED120 and WR121 or BT114 (may be taken concurrently).

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. Prerequisite: BT114 or WR121 (may be taken concurrently).

ED131 3 credits
Applied Learning Theory
Examines the principles of teaching and training with emphasis on applying adult learning theory. Focus will be on designing and evaluating learning outcomes. Designed for computer science informatics majors or students with strong content area knowledge who have little background in adult learning theory and its application to teaching and training. Prerequisite: WR121; SP111 recommended. Offered infrequently.

ED165 3 credits
Child Development
Explores child growth and development from the prenatal period through middle childhood. Course may include an online component. Prerequisites: RD90 and WR115, or designated placement test scores.

ED170 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: RD90 and BT113 or WR115, or designated placement test scores; ECE125, ECE161, 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 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, RD90 and WR90 (WR91 substitutes for both RD90 and WR90); MTH60 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. Offered infrequently based on industry demand.

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 documented proficiency and MTH20.

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. Prerequisites: EET125 or permission of instructor. Corequisites: 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, 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. Prerequisite: EET120 and MTH60 or MTH63.

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 electromagnetism. 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: CS120 and MTH20 recommended.

EET129 5 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: CS120 and MTH20 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, EET129, and EET125 or approval of instructor.

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.

EET150 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. Prerequisite: EET104.

EET151 4 credits
Programming PLCs I

Introduces programmable logic controllers (PLCs) and explores digital number systems, truth tables, logic devices, and PLC system and programming operations including ladder logic and memory organization. Prerequisite: EET150 or approval of instructor.

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.

EET180S 1 credit
Cooperative Work Experience Seminar/Electronics

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.

EET199 16 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: Instructor approval and a declared major in the Electronics program.

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 or approval of instructor.

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 or approval of instructor.

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: Permission of CWE instructor or department chair.

EET280S 1 credit
Cooperative Work Experience Seminar/Electronics

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.

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, 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. Prerequisite: Completion of or concurrent enrollment in 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. 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. 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. 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. Concurrent enrollment in EMS212, EMS212L and EMS222 is 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. Concurrent enrollment in EMS213, EMS213L and EMS223 is 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 EMT-Intermediate license. This is a limited-entry course and requires completion of an application process prior to admission. Course requires a written application prior to admission. Corequisites: EMS271L and EMS281.

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. Course requires a written application prior to admission. Corequisites: EMS271 and EMS281.

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. 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.

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. 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. 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. 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. Corequisites: EMS273 and EMS273L.

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/EMS283L 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. 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. 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. 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. 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: Some level of emergency training or background is suggested (e.g., emergency medical responder, EMT, firefighter, etc.).

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, and permission of CWE instructor or department chair.

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 or WR91 (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. Prerequisites: 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. Prerequisites: 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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

ENG105 4 credits
Introduction to Literature (Drama)
Offers a survey of representative works of drama from different cultures and time periods. Course explores the nature of the dramatic experience with emphasis on understanding and appreciating live productions. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

ENG109 4 credits
World Literature: Enlightenment to Modern
Introduces important works representing Enlightenment, romanticism in Europe and America, pre-modern Japan, 19th century realism, and 20th century literature in a global context. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

ENG199 Variable credit
Special Studies: English
The course is offered in a number of formats: workshop, seminar, or independent study. Prerequisites: RD90 or designated placement test score. Corequisite: WR121

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently). Offered infrequently.

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently). Offered infrequently.

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently). Offered infrequently.

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently). Offered infrequently.

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently). Offered infrequently.

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently). Offered infrequently.

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently). Offered infrequently.

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently). Offered infrequently.

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 1-3 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. Prerequisites: None.

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. Offered infrequently.

FRP249 3 credits
Fire Service Leadership

Examines and develops leadership and supervisory skills for mid-level supervisors in the fire service. Prerequisite: FRP251 or approval of instructor.

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. Prerequisite: FRP251 and 251L or equivalent.

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. Corequisite: 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. Prerequisites: 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, 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. Prerequisite: MTH60 or consent of instructor and RD90, or designated placement test scores; MTH65 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 or consent of instructor.

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 or consent of instructor.

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.

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. 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 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 recommended.

GRAPHIC DESIGN

Career and Technical Courses

GD120 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. Prerequisite: CS120 (can be taken concurrently) or documented proficiency.

GD130 3 credits
Introduction to Adobe Web Tools
Provides 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 documented proficiency.

GD140 3 credits
Electronic Publishing Applications I

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 documented proficiency.

GD141 3 credits
Electronic Publishing Applications II

Emphasis is on the proper preparation of electronic pre-press files for spot-color, multi-color and process-color print production. Students will execute print projects using the computer to create pre-press files for print production. They will also examine many advanced layout and printing techniques, multiple page document preparation and the proper methods for sending files to printers. Additional lab hours required. Prerequisite: GD140.

GD150 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 brochure, book, magazine, and advertising illustration. Adobe Illustrator is currently the application used in this course. Prerequisite: CS120 or documented proficiency.

GD160 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 documented proficiency.

GD170 3 credits
Motion Graphics (After Affects)

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, GD150 and GD160.

GD190 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 documented proficiency.

GD200 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 that 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, GD120 and WR121.

GD220 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. Prerequisites: GD120.

GD223 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 proportion and the relationships of type, layout and color in two- and three-dimensional graphic design projects. Students will study the history and classifications of letterforms and employ this knowledge base in the creation of various typographical designs and presentations. Typical projects may range from letter and alphabet design to the use of typographical forms as the feature design elements in graphic designs or page layouts. Additional lab hours required. Prerequisites: GD220 and GD227.

GD224 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 and GD227.

GD227 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, GD140, GD150, GD160 and WR121. Must be taken concurrently with GD220.

GD229 3 credits
Digital 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 envelops, 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. Prerequisite: GD224.

GD230 3 credits
Digital Graphic 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. Students pursuing AAS degrees in digital graphic design, digital Web design and Web development will be enrolled in the same section and working collaboratively to create and produce related promotional materials for print and Web. Additional lab hours required. Prerequisites: GD220 and GD227.

GD260 4 credits
Web Graphics (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: GD160.

GD280 Variable credit
Cooperative Work Experience/ Graphic Design

Provides work-related experience and study in selected occupational environments for second-year computer science students. Prerequisite: Permission of CWE instructor.

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 com-

munities 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.

HCI120 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, financers, 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. Prerequisite: WR115 (may be taken concurrently).

HCI210 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.

HCI255 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 and WR115.

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 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.

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 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 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. Prerequisite: 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. HST104 covers pre-history to the Middle Ages. 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. HST105 covers the Byzantium to the present. 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, 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 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: RD90 and BT113 or WR115, or designated placement test scores.

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 BA131 or documented proficiency, and 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 or permission of instructor.

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: Acceptance to 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 to 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 or permission of instructor.

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 or permission of the instructor; PSY202 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: Acceptance to 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 or permission of instructor.

HS199 1-3 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: Acceptance to 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, 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 (CADC I) 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 or consent of instructor. Offered infrequently.

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 or permission of instructor.

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, HS202 and HS210, or permission of instructor.

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 or permission of instructor.

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, 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, 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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

HUM199 Variable credit
Special Studies in Humanities

The course is offered in a number of formats: workshop, seminar, or independent study. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently). Offered on a rotating basis with other Native American Arts and Cultures classes.

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently). Offered on a rotating basis with other Native American Arts and Cultures classes.

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently). Offered on a rotating basis with other Native American Arts and Cultures classes.

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently). Offered on a rotating basis with other Native American Arts and Cultures classes.

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently). Offered on a rotating basis with other Native American Arts and Cultures classes.

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: Permission of instructor.

INTERNATIONAL STUDIES

Lower Division Collegiate

IS110 4 credits
Introduction to International Studies I

Explores major 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. Prerequisites: RD90 or designated placement test score; BT114 or WR121 (may be taken concurrently). Offered infrequently.

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. Prerequisites: RD90 or designated placement test score; BT114 or WR121 (may be taken concurrently). Offered infrequently.

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 study in various library and research topics.

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 documented proficiency, MTH20 and RD90 or WR91, or designated placement test scores.

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.

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; 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 documented proficiency, MTH63, RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores; MEC102; MFG116 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 or documented proficiency, MTH63; RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores; MEC102; MFG116 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 documented proficiency, MTH63, RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores; MEC102; MFG116 highly recommended.

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 documented proficiency; MTH60 or MTH63 or higher level math and WR90, 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

Studies measurements by mechanical, electronic and optical methods related to industrial dimensional conformance requirements. Corequisite: MFG121 or equivalent.

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. Corequisite: MTH63, MFG116 recommended.

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 or instructor approval.

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 or instructor approval.

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: MTH60 and MFG121 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. Prerequisites: MTH60, MTH63 or higher level math; EET101 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. Prerequisites: MTH60, MTH63 or higher level math; EET101 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. Prerequisites: MTH60, MTH63 or higher level math; EET101 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.

MFG232 3 credits
Electric Motor Control I
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. Safety is emphasized throughout, highlighting motor safety, lockout/tagout and safety interlocks. Prerequisites: MTH60, MTH63 or higher level math; MFG210 recommended.

MFG233 3 credits
Electric Motor Control II
Introduces the fundamentals of electric relay control of AC electric motors found in industrial and commercial manufacturing applications. Students will continue to gain an understanding of the operation, installation, design, and control of AC electric motor control circuits used in the manufacturing industry. 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 still emphasized throughout, highlighting motor safety and component safety, lockout/tagout, and safety interlocks. Prerequisites: MTH60, MTH63 or higher level math; MFG232 (may be taken concurrently); MFG210 recommended.

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 and MFG121 and MFG140, or instructor approval.

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 or instructor approval.

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 or instructor approval.

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, MFG121 and MFG140, or instructor approval.

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 or instructor approval.

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: Permission of CWE instructor or department chair.

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, CS120 or documented proficiency; 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 place 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 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. Prerequisite: BI121 or BI231 and MT102.

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, accupressure, 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; RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores. Corequisite: BI122 or BI232.

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; 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 1 credit
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: BI121 or BI231 and MT108.

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 for Massage Therapists – Part B
Focuses on business practices, marketing, record keeping, and insurance billing for a massage therapy practice. Prerequisite: WR90.

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
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. Corequisite: Concurrent enrollment in 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, co-enrollment in RD90, and instructor approval. Students should also be familiar with computers.

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 and RD90 or WR91, 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. Prerequisites: MTH60 and RD90 or WR91, or designated placement test scores.

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 and concurrent enrollment in 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. Prerequisites: MTH65 and RD90 or WR91, or designated placement test scores.

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 and concurrent enrollment in 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. Prerequisites: MTH60 or MTH63 and RD90 or WR91, or designated placement test scores. 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. Prerequisites: MTH95 or MTH96 and RD90 or WR91, or designated placement test scores. 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

Topics include linear functions and models, quadratic functions and models, graphing polynomials, rational and inverse functions, systems of equations, zeros of polynomials, exponential and logarithmic functions, and conic sections. Course is graded A through F. Prerequisites: MTH95 and RD90 or WR91, or designated placement test scores. 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 and concurrent enrollment in MTH111.

MTH112 4 credits
Elementary Functions

Covers basic and advanced trigonometry. Course is graded A through F. Prerequisites: MTH95 and RD90 or WR91, or designated placement test scores. 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.

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. Prerequisites: MTH95 or designated placement test score and concurrent enrollment in MTH112.

MTH199 1-4 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. Prerequisites: MTH95 or designated placement test score and 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. Prerequisites: MTH95 or MTH96 and RD90 or WR91, or designated placement test scores; 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.

MTH244 4 credits
Inferential Statistics

Builds on the basic knowledge and skills learned in MTH243 and utilizes spreadsheet skills gained in CS125ss. 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: BA131, MTH243, RD90 or WR91 (or designated placement test score), and BA285 or CS125SS.

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 or consent of instructor. 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 or consent of instructor. 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 or consent of instructor. 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 com-

puter lab is required. Prerequisite: MTH253 or instructor approval. 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 should complete this course within the last two terms of a certificate or degree program. Prerequisites: Permission of CWE instructor or department chair.

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 and RD90 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. Prerequisite: MTH63 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 equivalent. 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. Prerequisite: MET111 and MET112 or instructor approval; MET105 highly recommended.

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. Prerequisites: CS120 or equivalent; 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 or department approval.

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 or department approval.

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. Prerequisite: MFG101 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. Prerequisites: RD90 or WR91, or designated placement test score, and WR121 (may be taken concurrently).

MUS108 4 credits
Music in World Cultures

Introduces music from various cultures with an international and cross-cultural perspective. Explores both commonalties and differences in how music is defined, valued, and utilized in many cultures around the world. Prerequisites: RD90 or WR91, or designated placement test score, and WR121 (may be taken concurrently).

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 solfege as a tool for sight singing. Prerequisites: RD90 or WR91, or designated placement test score, and WR121 (may be taken concurrently), and MUS101 or a basic knowledge of music fundamentals.

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: RD90 or WR91, or designated placement test score, WR121 (may be taken concurrently), and MUS111 or permission of the instructor.

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: RD90 or designated placement test score, WR121 (may be taken concurrently), and MUS112 or permission of the instructor.

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. Prerequisites: MUS137 or instructor approval.

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. Prerequisites: RD90 or WR91, or designated placement test score; WR115 (may be taken concurrently).

MUS201 4 credits
Introduction to Western Music
Studies styles and historical contexts of music from antiquity to the present. No musical background is required. Prerequisites: RD90 or WR91, or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or WR91, or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or WR91, or designated placement test score; WR121 (may be taken concurrently).

MUS207 3 credits
Songwriting
Studies examples of successful popular songs and the fundamentals of music theory and notation. Students will be asked to compose and record original songs. Prerequisites: RD90 or WR91, or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or WR91, or designated placement test score; WR121 (may be taken concurrently).

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. Offered infrequently.

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. Offered infrequently.

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. Offered infrequently.

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 tradition. Prerequisites: RD90 or WR91, or designated placement test score, WR121 (may be taken concurrently), and MUS101 or knowledge of music fundamentals and the ability to read music.

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: RD90 or WR91, or designated placement test score, WR121 (may be taken concurrently) and MUS101 or knowledge of music fundamentals and the ability to read music.

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: RD90 or WR91, or designated placement test score, WR121 (may be taken concurrently), and MUS101 or knowledge of music fundamentals and the ability to read music.

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. Prerequisites: RD90 or WR91, or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or WR91, or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or WR91, or designated placement test score; WR121 (may be taken concurrently).

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. *Course is Career Technical Education.

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. Prerequisite: NRS110 and NRS110C; NRS230 and NRS232 taken concurrently. *Course is Career Technical Education.

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 interprofessional 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. *Course is Career Technical Education.

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. *Course is Career Technical Education.

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 regard-

ing 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. Prerequisites: RD90 or WR91 or designated placement test score; CHEM104 and BI211 recommended.

OUTDOOR ADVENTURE LEADERSHIP

Lower Division Collegiate

OAL150 2 credits
Outdoor Living Skills

Introduces students to the art of preparing to camp in front 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. 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. It also requires students to demonstrate competency in a field setting. 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.

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. Prerequisites: RD90 or WR91, or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or WR91, or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or WR91, or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or WR91, or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: 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.

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.

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 first-hand 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 combative 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
Pilates is an exercise that enhances flexibility, core strength and coordination. Also improves breathing and lung capacity, muscle control, and balance through a system of controlled movements. Pilates is an effective method for reducing stress, increasing abdominal tone, and improving posture and flexibility. 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. Swim hours throughout the term can be scheduled around students' schedules. Students set individual goals for swimming and strength training and strive to reach those goals over the course of the term.

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

Fosters the development of skills and knowledge to support a certificate in open water diving through the diver's certification process. The objective of this course is to offer students the classroom instruction, pool practice, and a minimum of four open water dives of 20 minutes each, in either river, lake or ocean to prepare students for the final SCUBA dives and certificate. This certification allows certificate holders to dive to a maximum depth of 130 feet in open water.

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 padding 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
Toning, Training 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 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.

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; PE185D (may be taken concurrently); BI121 or BI231 recommended.

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. Prerequisite: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test

scores,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. Prerequisites: PE194; PE264 or HE259 (may be taken concurrently); and permission of instructor or department chair.

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. Co-requisite: 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

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 (PS201). Examines the concepts and principles of the American political system including federal, state, and local government structures, and other related systems (PS202). 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 (PS203). 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.

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. Prerequisite: 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. Prerequisites: BT113 or WR115 or designated placement test score; PSY201 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; PSY201 (may be taken concurrently).

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. Prerequisites: BT113 or WR115 or designated placement test score; PSY201 and PSY202 (may be taken concurrently).

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: RD90 or WR91 or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or WR91 or designated placement test score; WR121 (may be taken concurrently).

SERVICE LEARNING

Career and Technical Courses

SRV101 16 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. May be repeated for a maximum of up to 6 credits. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), and permission of advisor.

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: Permission of instructor.

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: Permission of instructor.

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
Examines the social contexts in which all human behaviors occur and the social forces that impact the lives of individuals, with emphasis on U.S. society. Surveys theories and findings of sociology including culture, individuals and groups, socialization and social control. Emphasis is placed on the sociological perspective and how to apply it to one's own life, the social construction of reality and the institutionalized stratification of U.S. society by gender, race, class and sexuality. Prerequisites: WR115 or BT113 or designated placement test scores.

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 AAOT 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 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 AAOT 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 AAOT 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. Prerequisites: RD90 and 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. Prerequisites: 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. Prerequisites: 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. Prerequisites: RD90 and BT113 or WR115, or designated placement test scores; SP111 and WR121 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. Prerequisites: RD90 and 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. Prerequisites: RD90 or WR91, or designated placement test score; WR115 (may be taken concurrently).

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. Prerequisites: RD90 or WR91, or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or WR91, or designated placement test score; WR121 or BT114 (may be taken concurrently).

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. Prerequisites: RD90 or WR91, or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: Permission of CWE instructor and department chair.

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. Instructor permission is needed to register.

TA153 4 credits
Theater Rehearsal and Performance
Provides experience in rehearsing and performing plays. Course may be repeated for a maximum of 12 credits.

TA190 13 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. Prerequisite: Permission of instructor.

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.

TRANSPORTATION AND TRUCK DRIVING

Career and Technical Courses

TD101 2 credits
Introduction to Commercial Truck Driver Training
Provides an overview of the transportation industry and the knowledge and skills necessary to successfully pass the Oregon DMV General Knowledge and Combination Vehicle tests. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores. Students must also pass the Department of Transportation (DOT) physical and drug screen and reach their 18th birthday before the first day of class.

TD103 4 credits
Introduction to Commercial Truck Driver Training (Class B License)
Provides an overview of the transportation industry and the practical knowledge and skills necessary to successfully pass the Oregon DMV General Knowledge and Combination Vehicle tests for a Class B license. Course is graded on a pass/no pass basis. Prerequisites: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), or designated placement test scores. Offered as needed.

TD110 3 credits
Commercial Truck Driver Training Advanced Topics
Provides students with the knowledge and skills necessary to successfully pass Oregon Department of Motor Vehicles endorsement tests including air brakes, doubles/triples, tanker, and hazardous materials. Students will also become familiar with commercial vehicle basics, which include driver qualifications, driver health, hours of service, and whistle blower protection as required by the Federal Motor Carriers Safety Administration (FMCSA). Additionally, students will be introduced to hours of service regulations; atlas (map) reading; log book notations; tractor/trailer systems; double clutch shifting procedures; coupling/uncoupling; tire chaining; pre-trip, in-trip and post-trip inspections; defensive diving techniques; driver nutrition; load management and proper securing methods; and accident reporting. Prerequisites: TD101 or current Oregon Class A commercial driver's license permit; current Department of Transportation (DOT) medical card; recent (less than 30 days old) negative DOT drug screen; and completed and accepted course application. Students must be 18 years old prior to the first day of class.

TD120 7 credits
Commercial Truck Driver Training Practical Applications
Provides students with the practical knowledge and skills necessary to successfully pass the Oregon Department of Motor Vehicles (DMV) Commercial Motor Vehicle (CMV) Class A license skills test (pre-trip inspection, brakes leak test, straight and 90 degree backing, and road test). Students will also safely demonstrate competency in all tractor/trailer maneuvers including coupling/uncoupling; throttle control; braking systems; backing maneuvers; right and left hand turns; proper shifting techniques; space management; proper use of mirrors; hazards perception; rural, metro, highway, mountain and night driving; and OSHA forklift safety. Prerequisites: TD101 and TD110.

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. Prerequisite: MTH63 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 or permission of instructor.

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. Prerequisite: WLD111 and WLD112 or permission of instructor.

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; WLD140 (may be taken concurrently).

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. Prerequisites: 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. Prerequisite: WLD111, WLD112, and WLD113 or permission of instructor.

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. Prerequisite: WLD111, WLD112, WLD113, and WLD211 or permission of instructor.

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 or permission of instructor.

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 and BT114 or WR121, or designated placement test scores; WLD113. Offered infrequently.

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 or permission of instructor.

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: Permission of instructor.

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; WLD112; MFG140 (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. Prerequisites: WLD112 or instructor approval. Offered infrequently.

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: Permission of CWE instructor.

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. Prerequisite: RD90, or designated placement test score; ASL101 for ASL102; ASL102 for ASL103. Courses must be taken in sequence.

FR101,FR102,FR103 4 credits
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 designated placement test score; WR91 (may be taken concurrently). 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. Prerequisites: RD90 or designated placement test score; BT114 or WR121 (may be taken concurrently). 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. Prerequisites: RD90 or designated placement test score; BT114 or WR121 (may be taken concurrently). 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. Prerequisites: RD90 or designated placement test score; BT114 or WR121 (may be taken concurrently). Courses must be taken in sequence.

SPAN111 13 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. Prerequisite: SPAN102 or permission of instructor; RD90 or designated placement test score; BT114 or WR121 (may be taken concurrently).

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). Prerequisites: RD90 or designated placement test score; WR121 or BT114 (may be taken concurrently); two years of high school Spanish, successful completion of SPAN103, or equivalent Spanish experience with instructor permission. Courses must be taken in sequence.

SPAN202 4 credits
Second Year Spanish II

This second-year sequence 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). Prerequisite: SPAN201.

SPAN203 4 credits
Second Year Spanish III

This second-year sequence 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). 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.

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. Prerequisites: RD90 and WR115, or designated placement test scores.

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. Prerequisites: WR121 or equivalent; BA131, CS120 or above, or a passing score on the computer proficiency exam strongly recommended.

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 and BT114 or WR121; public speaking ability is an asset; CS125WW and 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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

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. Prerequisites: RD90 or designated placement test score; WR121 (may be taken concurrently).

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bookstore specialist I, Shipping Receiving; B.A., English History, University of Utah, Salt Lake City, 2003

Marie Maguire-Cook, Ed.M.,
faculty, lead instructor, department chair, and testing administrator, Academic Success; M.A., Education, Oregon State University, Corvallis, Magna cum laude, 2002; B.A., Business Management, Northwest Christian University, Eugene, cum laude, 2000; A.A.S., Electronic Office Technology, Rogue Community College, Grants Pass, 1996; Certificates: Business Assistant/Computer, RCC, 1994; Legal Office Assistant, RCC, 1994

Tiffany Malsberger,
completion specialist, Career Services; B.S., Human Services, Southern Oregon University, Ashland, 2016

Anna Manley,
director, Financial Aid; B.A. Business Administration, Vanguard University, Costa Mesa, 1990; M.A. Education College Administration, San Diego State University, San Diego, 1996

Wade Mann,
network administrator, Network Services; A.A., Computer Science, Rogue Community College, 1997; CompTIA A+ Certified Technician, Microsoft Certified Systems Engineer

Ryan Maple,
faculty, Humanities; B.A., Spanish and English, University of Oregon, Eugene, cum laude, 1997; M.A., Spanish, University of Oregon, Eugene, 2000

Barbara McAuley,
human resources specialist II, Career and Student Employment Services

Angel McCauley,
financial aid specialist, Financial Aid; A.A.S., Business Technology and Business Assistant certificates, Rogue Community College, 1996; A.S., Business, RCC, 2008

Mike McClure,
director, IT-network and user support services, IT Department; A.A.O.T., Computer Science, Rogue Community College, Grants Pass, 2002; Certificates: Massage Therapy Certificate, RCC, 1994; Systems Security Certified Practitioner (SSCP), 2012; Hyper-V Server Virtualization (MCTS), 2012; Managing Office 365 Identities and Services, 2015; Vanderbilt Lock Systems, 2016.

Lorri McIntosh,
faculty, Practical Nursing; A.D.N., Regents/Excelsior College, 1995; B.S.N., University of Phoenix, 2010; M.S.N., University of Phoenix, 2012

Dave McKeen,
faculty/department chair, Electronics; A.A.S., Electronics, Rogue Community College, 1995; International Society of Certified Electronics Technician certificate, 1996; B.A., Management, Northwest Christian College, 1999; M. Ed., Education, Oregon State University, 2003

Dr. Rene McKenzie,
director, Student Programs; Computer Analyst certificate, Rogue Community College, 1992, B.A., Management, Northwest Christian University, 2002; Ed.M., Adult Education, Oregon State University, 2008; Ph.D., Philosophy and Community College Leadership, OSU, 2015

Greg McKown,
construction project manager, College Services Administration

Jess D. McLoud,
I.P. video network coordinator, Instructional Media, A.A.G.S., Computer Science, Rogue Community College, Grants Pass, 2012

Garrett Mecca,
network administrator, IT: Network Services; B.S., Electrical Engineering, University of Portland, 2002

Angelica Mendoza,
transition specialist Latino outreach and recruitment, Enrollment Services; B.S., Criminal Justice, minor in Psychology, Southern Oregon University, Ashland, cum laude, Alpha Phi Sigma, NRHH, 2015

Mary Middleton,
faculty, Mathematics; M.S., Applied Mathematics, University of Colorado, Colorado Springs, cum laude, 2001; B.A., Mathematics, Fort Lewis College, Durango, 1999

Cameron Milani,
instructional technology administrator, Instructional Media

John Miles,
grounds and maintenance worker, Facilities and Operations B.S., Organizational Leadership, Azusa Pacific University, Azusa, cum laude, 2007; A.A., English, Fullerton College, Fullerton, 1975; Certificates: Ford Institute Leadership Program, 2016; Emergency Medical Responder, 2017; CERT, 2015

Rhonda Misner,
faculty and department chair, Health, PE and Recreation Department; B.A., Psychology, California State Fullerton University, Fullerton, 1982; M.S., Health, Southern Oregon University, Ashland, Magna cum laude, 2011; M.S., Community Health, Canyon College, Caldwell, Magna cum laude, 2009; ; Certificates: Lifetime Physical Education Credential, California Community Colleges; American Heart Association Instructor: Health Care Provider; Wilderness First Responder

Camille Mitchell,
science lab technician, Science; General Studies, Computer science, Rogue Community College, Grants Pass, 1994

Ryanne Mitchell,
graphics specialist, Marketing; B.F.A., Graphic Design, Oklahoma State University, Stillwater, 1996

Michelle Moncovich,
facilities office coordinator-Jackson County, Facilities and Operations

Carmen Mons,
training services coordinator, Dental Assistant program, Allied Health Occupations

Jacqueline J. Morden,
Rogue Central specialist, Student Services; A.S., Business Technology, Business, Rogue Community College, Grants Pass, Phi Theta Kappa, 2007; Certificates: Business Assistant Certificate, 2007

Layne Morell,
academic adviser II, TRiO Student Support Services; B.A., Economics, University of Washington, Seattle, 1992

Christine Morris,
director, Educational Partnerships; B.S., Criminal Justice and Psychology, Southern Oregon University, Ashland, Magna cum laude, 2007; M.S. Higher Education, Adult Education, Capella University, June 2018. Certificates: MILO Range Use of Force Simulation Certified Trainer; Mediation and Conflict Management, Southern Oregon University; American's with Disabilities Act Trainer, DBTAC and Cornell University; Certificate for Life Coaching, The Job Council

Peggy Mosley,
maintenance custodian, Facilities and Operations

Christine Murff,
payroll and retirement programs coordinator, Human Resources; Business Assistant certificate, Rogue Community College, 1998; A.A.S., Business Technology, RCC, 1998; A.S., RCC, 2011

Catherine Murphy,
facilities office coordinator, Facilities and Operations

Deborah Murphy,
faculty, Early Childhood Elementary Education; B.S., English and Elementary Education, State University of New York, New Paltz, 1975; M.S., Elementary Education Specialization- Early Childhood, State University of New York, New Paltz, 1977. Oregon Teaching License, Music PreK-12 and Elementary Classroom PreK-8, 2007-present

Sheri Muzzioli,
Rogue Central specialist I, Enrollment Services

Susan Naumes,
faculty, Nursing; B.S., Nursing, Washington State University, 1975; M.S., Nursing Education, Clarkson College, 2000

Denise Nelson,
assistant to the vice president, College Services Administration; Certificates: 1981 Graduate, International Airline Academy, ACCSC

Casey Nolen,
media specialist II, Instructional Media

Joshua Ogle,
director, Instructional Media and Helpdesk; B.S., Business Information Systems, Southern Oregon University, Ashland, 2008; M.B.A., Organizational Behavior, Marylhurst University, West Linn, 2012

Tracie Olsen,
program support specialist IV, Academic Success; A.A.O.T., Humanities, Rogue Community College, Grants Pass, Magna cum laude, 2008

Jack Opgenorth,
faculty, Social Science/Human Services; BA, Social Work/Sociology, University of Wisconsin, Madison, 1976; M.S.W., Social Work, University of Wisconsin, Milwaukee, 1979; Certificates: Licensed Clinical Social Worker (LCSW) since 1998

Sharon Owen,
groundskeeper, Facilities

Manuel Pacheco Jr.,
faculty, Social Sciences/Human Services; B.S., Social Sciences/Human Services, Southern Oregon University, Ashland, cum laude, 2008; M.S., Mental Health Counseling, Southern Oregon University, Ashland, Magna cum laude, 2010; Certificates: Certified Alcohol and Drug Counselor I / 2012

Lisa Parks,
director, SOHOPE, Allied Health; B.S., Sociology, Southern Oregon University, Ashland, Summa cum laude, 2016

Rose Passione,
Rogue Central specialist, Rogue Central; B.A., Music, George Fox University, Newberg, Summa cum laude, 2004

Cyndy Patterson,
faculty, Computer Science; B.A., Distributed Studies Anthropology History Craft Design, Iowa State University, Ames, 1975; M.S., Mathematical and Computer Sciences, Southern Oregon University, Ashland, 1997

Dana Thorp Patterson,
director, community education, continuing education and workforce training, Continuing Education Workforce Development; Ed.D.-ABD, Community College Leadership, University of Missouri St Louis, St. Louis, 2018; M.S., Clinical Counseling, Missouri State University, Springfield, 1990; B.A., Criminal Justice Sociology, College of the Ozarks, Pt. Lookout, Magna cum laude, 1980; ; Certificates: Research Certification University of Missouri - St. Louis

Pamela Peckham,
student records specialist, Enrollment Services; Word/ Information Processing certificate, Rogue Community College, 1984; A.A.S., Secretarial Science, RCC, 1984

Richard Pellerin,
building and grounds maintenance worker, Facilities and Operations

Mark Petersen,
web development specialist, Instructional Media

Kemp Pheley,
faculty/department chair, Diesel Technology; B.S., Vocational/Technical/Adult Education, University of Wisconsin-Stout,1991; M.S., University of Wisconsin-Eau Claire, and Montana State University, Billings

Dr. Charles "Chip" Phillips,
faculty, Humanities; B.A., English, University of California, Los Angeles, 1992; M.A., American Literature, San Diego State University, 1995; Ph.D., American Literature, Claremont Graduate University, 2004

Tyler Phillips,
test proctor I, Testing Centers

Catherine Pierson,
apprenticeship coordinator, Apprenticeship

Thomas Pike,
faculty, Counseling; B.A., Earth Science, Principia College, Elsah, 1984; B.A., Business Administration, Principia College, Elsah, 1984; M.A., Counseling Psychology, Antioch New England Graduate School, Keene, 2001

Donna J. Plummer,
eligibility specialist, Southern Oregon HOPE; A.A.S., Business Technology, Rogue Community College, Grants Pass, Phi Theta Kappa, 2008; B.S., Business Administration, Southern Oregon University, Ashland, 2013

Melissa Polen,
faculty and department coordinator, Business Technology; B.S., Business Administration, Southern Oregon University, Ashland, 2007; M.B.A., Business Administration, Marylhurst University, Marylhurst, 2010

Renéa Prell,
transition specialist, TRiO ROC, TRiO-ROC; B.S., Psychology, Southern Oregon University, Ashland, 2013

Courtney Rasmussen,
institutional research assistant I, Institutional Research, Effectiveness and Planning

Iris Reagan,
faculty, Nursing; B.S.N., Southern Oregon University, 1993; M.S.N/M.H.A, University of Phoenix, 2009

Tracy Redd,
faculty and department coordinator, Mathematics; B.A., Math and Physics, Southern Oregon University, Ashland, Summa cum laude, 1997; M.S., Physics, University of Oregon, Eugene, 1998

Michelle Rhodes,
program support specialist IV, Educational Partnerships; A.A.S., Business Technology, Rogue Community College, Grants Pass, 2013

Dr. Teresa Rivenes,
dean, Curriculum and Instruction; B.S., Psychology and Sociology, Weber State University, 1996; M.S., Social Science, Utah State University, 1999; M.S., Psychology, Capella University, 2011; Ph.D., Psychology, Capella University, 2013.

William Riddle,
veterans coordinator, Student Services Veterans Services; B.S., Applied Psychology, Oregon Institute of Technology, Klamath Falls, 2000

Peter Ridgeway,
faculty, automotive lab technician and co-department chair, Automotive Technology

Robin Jil Rigby,
data management specialist, Adult Basic Skills; A.A.S. Fashion Design, Fashion Design-Tailoring, Diablo Valley Community College, Walnut Creek, 1979

Dusty Rittenbach,
faculty, Science; B.S., Physics and Applied Math, Walla Walla College, College Place, 1991; M.S., Physics with minor in Biophysics, Oregon State University, Corvallis, 1993

Dr. Teresa Rivenes,
dean, School of Workforce and College Preparation; B.S., Psychology and Sociology, Weber State University, 1996; M.S., Social Science, Utah State University, 1999; M.S., Psychology, Capella University, 2011; Ph.D., Psychology, Capella University, 2013

Juan Rivera,
library specialist II, acquisitions and processing, Library

Daniel Rodriguez,
mail and receiving specialist, Shipping Receiving; A.S., Photography, San Bernardino Community College, San Bernardino, 1987; B.S., Business and Management, University of Redlands, Redlands, 1992

Laurie Roe,
director and accreditation liaison, Institutional Research and Effectiveness

Brad Ross,
admission coach, Recruitment; A.A., Business Administration/Business Management, American River Community College, Sacramento, 1982

Julie Rossi,
faculty, 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

Dr. Wolfgang Rünzi,
faculty, English and Humanities; M.A., American Studies English Linguistics German Literature, Eberhard-Karls-University, Tübingen, Germany, 1981; Ph.D., American Literature, University of Oregon, Eugene, Sarah-Kirby-Harkness Award, 1990

Ben Russell,
electronics lab technician, Electronics; A.A.S., Electronics Technology, Rogue Community College, Grants Pass, PTK, 2007

Nicole Sakraida,
assistant director if recruitment, Admissions and Records; B.A., Spanish, Seattle University, Seattle, 2004; Minor, Sociology, Seattle University, Seattle, 2004; M.Ed., Education, Universidad San Fransisco de Quito, Quito, Ecuador, 2007

Teresa Schawo,
senior accountant, Budget and Financial Services; B.S., Accounting, Southern Oregon University, Ashland, 1994

Steve Schilling,
dean, School of Science and Technology, Instructional Services; A.A., Industrial Arts, Manufacturing, Bakersfield Junior College, Bakersfield, 1978; B.A.S. , Psychology, Marriage Family Counseling, Cal State University-Los Angeles, Los Angeles, 1995; M.A. Educational Leadership, Educational Administration, Grand Canyon University, 2009; Certificates: CA Teaching License 1995 OR Teaching License, 1997; Career and Technical Education certification in Manufacturing Technologies, 2005.

Don Schultz,
faculty, Science; B.S., Biological Sciences, University of Utah, Salt Lake City, 1994; M.S., Biological Sciences, Southern Oregon University, Ashland

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,
IT Programming Services, Quality Assurance, Director, IT Programming Services & Institutional Research

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,
assistant director, Foundation; B.A., Psychology/ Sociology, Oregon State University, Corvallis, 2001; Ed.M., Adult Education, Oregon State University, Corvallis, 2013

Helaine Smith,
science lab technician, Science

Ted Smith,
groundskeeper, Facilities; 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, 1997; Graduate Certificate; Distance Learning - Northeastern University, 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

Curtis Sommerfeld,
vice president, College Services; B.S., Management, Northwest Christian University, 1996; M.A., Business Administration, Northwest Christian University, 2013

Lori T. Sours Ph.D.,
outcomes and assessment strategist, Outcomes and Assessment; Ph.D., Linguistics, University of Massachusetts - Amherst, Amherst, 1984; M.A., Linguistics, University of Massachusetts - Amherst, Amherst, 1982; B.A., Linguistics, University of Minnesota, Minneapolis, Summa cum laude, 1977

Bernyne Spillane,
Rogue Central specialist, Rogue Central; A.A.S. , Business Technology, Rogue Community College, Grants Pass, 1999

Dr. Serena Ota St. Clair,
pathways and articulation coordinator, Adult Basic Skills Cooperative Work Experience,

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

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, 1980

Sherry Sutphin,
program support specialist II, Adult Basic Skills

Dr. Dorothy Swain,
faculty and department chair, Science; B.S., Chemistry, University of Illinois, Urbana-Champaign, Magna cum laude, 1985; M.A., Chemistry, Columbia University, New York City, 1987; Ph.D., Medicinal Chemistry, University of Illinois, Chicago, 1994; MAT, Education, Southern Oregon University, Ashland, 1999; Certificates: Oregon Teaching License, 1999

Jeremy Taylor,
faculty, 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,
faculty, Social Science; B.A., Microbiology-premed, Brigham Young University, Provo, UT, cum laude, 1978; M.A., History/Psychology, Utah State University, Logan. UT, 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).

Don Tiller,
help desk technician, 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,
Career Services—SOHOPE

Dr. Ann-Margret Trausch,
faculty, Electronics; A.A.S., Electronics, Riverside City College, 1986; B.S., Industrial Technology, Humbolt 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

Dr. Verne Underwood,
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

Jim Van Brunt,
faculty, Science; A.A., General Education, Barstow Community College, Barstow, Magna cum laude, 1976; B.S., Biology, Cal State Polytechnic University, Pomona, cum laude, 1979; M.A., Education - School Administration, Cal State University San Bernardino, San Bernardino, 1986; M.S., Biology-Molecular Genetics Ecology, Cal State University San Bernardino, San Bernardino, 1994; Certificates: California Teaching Certificate—Life Science; California Teaching Certificate—Physical Science; California Administrative Certificate; Michigan Teaching Certificate—Life Sciences.

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 Advising; B.S., Psychology, Southern Oregon University, Ashland, 2010

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; B.A., Business Marketing, University of Phoenix, Phoenix, 2013

Grant Walker,
director of marketing and 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, 2016; ; Certificates: Accreditation in Public Relations, Public Relations Society of America, 2015-18. Advanced PIO Training, Dept. of Homeland Security, 2010.

Melissa Weast,
administrative assistant III, Nursing, Practical Nursing; A.A., Legal Administration, Oregon Institute of Technology, Klamath Falls, 1985

Barbara Wicks,
enrollment specialist, Enrollment; A.A.O.T., Rogue Community College, Grants Pass, 1995; B.S., Environmental Studies, University of Oregon, Eugene, 1998

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

Jeanne Whitsel,
facilities office coordinator temp, Facilities and Operations, RWC; B.A., Applied Math, Computer Science, Spanish, Western Michigan University, Kalamazoo, 1981

Marita Wilder,
data management specialist, Curriculum and Scheduling

Sarah Wofford,
accounting specialist II, Budget Financial Services

Angel Woods,
administrative assistant III, 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, Advising and Counseling; B.A., Economics, Simon Fraser University, Vancouver, BC, 2000; M.Ed., Higher Education Student Affairs, University of Southern California, Los Angeles, 2009

Dr. Colletta Young,
director, University Transfer -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

Lisa Younker,
Enrollment Services, Rogue Central Specialist; A.A.O.T., Art, Rogue Community College, Grants Pass, 2013; B.A., Communication Studies Studio Art, Southern Oregon University, Ashland, 2017

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 2017-18.

David S Ackles
Lauren C Adair
Martin L Adamo
Nickolas R Alexander
Catherine A Allegretti
Joshua D Allphin
David M Appleby
Pamela T Arbogast
Frank P Armstrong Jr
Suzanne J Atkin
Brandon L Atkins
Alfred R Augustine
William J Augustine
Tyler H Averyt
Johnny C Baker
Sabrina L Ballew
Stephen C Ballew
Amanda S Bans
Rebecca J Barker
Susan C. Bars
Maria L Battrick
Bryan S Baumgartner
Megan S Beck
Darrell L Beltz Jr.
Seth L Benham
Jon R Bennett
Debra Kim Benson
Glenn A Berg
Beth C Beurkens
Gulestan H Bharucha
William J Biggs
Belinda M Black
Miranda J Black
Julia A Bloom
Richard A Blum
Larry A Bohn
Brian R Bolstad
Michael S Bowman
Benjamin J. Boyd
Steve D Boyersmith
Carlos A Bracuto
Lisa A Bradshaw
Jillease M Brand
Jane M Brockman
Alison L Brown
Chase A Browning
Taneea W Browning
Clifford E Brumbeloe
Benjamin M. Bryan
Daniel L Buck
Genee A Bull
Frank E Bungay
Tamara B Burrill
Shelly K Bursick
Timothy D Busald
Dana Bussell
Aaron A Bustard
Erin Byers
Michael S Calhoun
Catriona J Callies
Daniel G Campagna
Cathryn E Campbell
Roger Cantwell
Natasha E Carbin
Galyn B Carlile
Steven A Carlino
Rabecca L Carrick Crook
Gregory D Chandler
Jasmyne E Chandler
Quinton J Chapman
Cynthia S Charat
Mark Chinn
Travis J Chronister
Graeme J Clark
Jackie L Clary
Debora Coen
Sandy J Contreras
Daniel W Cook
Dorian F Corliss
Frank G Craig
Laura Crane
Michael P Crane
Ace B Cranford
Sharon D Crawford
Travis M Crume
Robert M Crutchley
Alexander R Cummings
Elijah A Cunningham
Mary W Dalzell
Ethann T D'Amato
Chelsea K Daugherty
Kathleen L Davidson
Victor Davila
Sharon A Davis
Timothy M De Lisle
Teresa M Dean
Dennis A. Dedrick
Randy C Delonge
Kelsey F Dennis
Gary V DeSimone
Binod Dhakal
Rina Diamond
Ryan D Dickerson
Eric R Dittmer
George H Doersch
Thomas Dorigan
Patricia F Drevets
Peter H Droesch
Talley K Dunn
Regina C Dusenbury
Alfredo Echaide
Daniel D Elash
Melinda A Ellerman
David R Ellison
Felicity M Elworthy
Jennifer K Englund
Patricia Enos
Sara P Enriquez
Jarret A Estremado
Jennifer L Eufusia
Ryan T Evans
Ronald D Evernham
Allison C Fahrner
Brian R Farber
Penny J Farster
Michael D Fazio
Mandi R Feetham
Reanna S Feinberg
Richard A Feist
Elizabeth A Feller
Donald Ferguson
George A Fernandez
Rogelio Fernandez
Ryan B Fields
Chelsea E Fine
Donna M Fiore
Ryan A Forsythe
Kathleen L Foster
Velma V Foust
Anne-Marie R Franchini-Smith
Heather L Freiheit
Diane M Gallas
Matthew G Galli
Galen C. Garretson
Francine I Gentile
Dennis D Gettman
Keea F Gharagouzloo
Christina M Giles
Patricia A Gillespie
Wende Glimpse
Jesse R Glynn
Victor M Gobel
Robert A Goldenberg
Edward A Goodboe
Courtney K Gordon
Marcus E Goss
Ginger L. Gough
Shaylee R Graham
Allyn B Granade
Stuart B Gray
Randall J Green
Gordon M Greenley
Paula P. Greist
Cindy L Griffis
Daryl L Griggs
Christine M Grubb
Yanira A Grullon Payton
Michael A. Grutchfield
Paul F Gulrich
Frances I Gunson
Daniel J Hall
Robert L Hambleton
Elizabeth K Hamilton
Gretchen C Hamilton
Westin C Hammer
Joyce B Hane
Corey M Hansen
Liz C Hardy
Michael H Harrison
Cynthia J Hauser
Matthew W Havniear
John D Hawkins
Jennifer L Haynes-Clark
Erika F Hayward
Jason D Hayward
Gabrielle A Headings Calderon
Eugene J Hebert
Else B Heckert
Timothy R Hegdahl
Theodore Helard
Eric B Hennings
James T Henry
Anthony R Herrera
Holly H Hertel
Dorothy D Heyne
Donald E Hickman II
Margueritte L Hickman
Michael W Hicks
Richard R Higgins
Judith R Hill
Matthew R Hilliker
Joann H Hoeber
Shelly A Hohl
Natalie Holliday
Stephen E Holst
Rosemarie P Holub
William D Hopkins
Mark D Huddleston
Jerry E Hull
Leo J Hull
Joseph D Hyatt
Cathy M Iannone-Mulleary
Martha Ibarra
James A Inglehart
Jennifer L Jackson
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Frank H Kennedy
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Thomas P Kerley
Erin L Kerr
Dennis L Kimzey
Larry King
Jessica L Kitchen
Melissa Klise

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Jeremy M Knight
Michelle E Knighten
Veronica H. Knitter
Kurt H Knudsen
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Lutz Kramer
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Gary D Kroll
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Rod T LaCoste
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Travis A Landen
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Mickey L Laney-Jarvis
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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.

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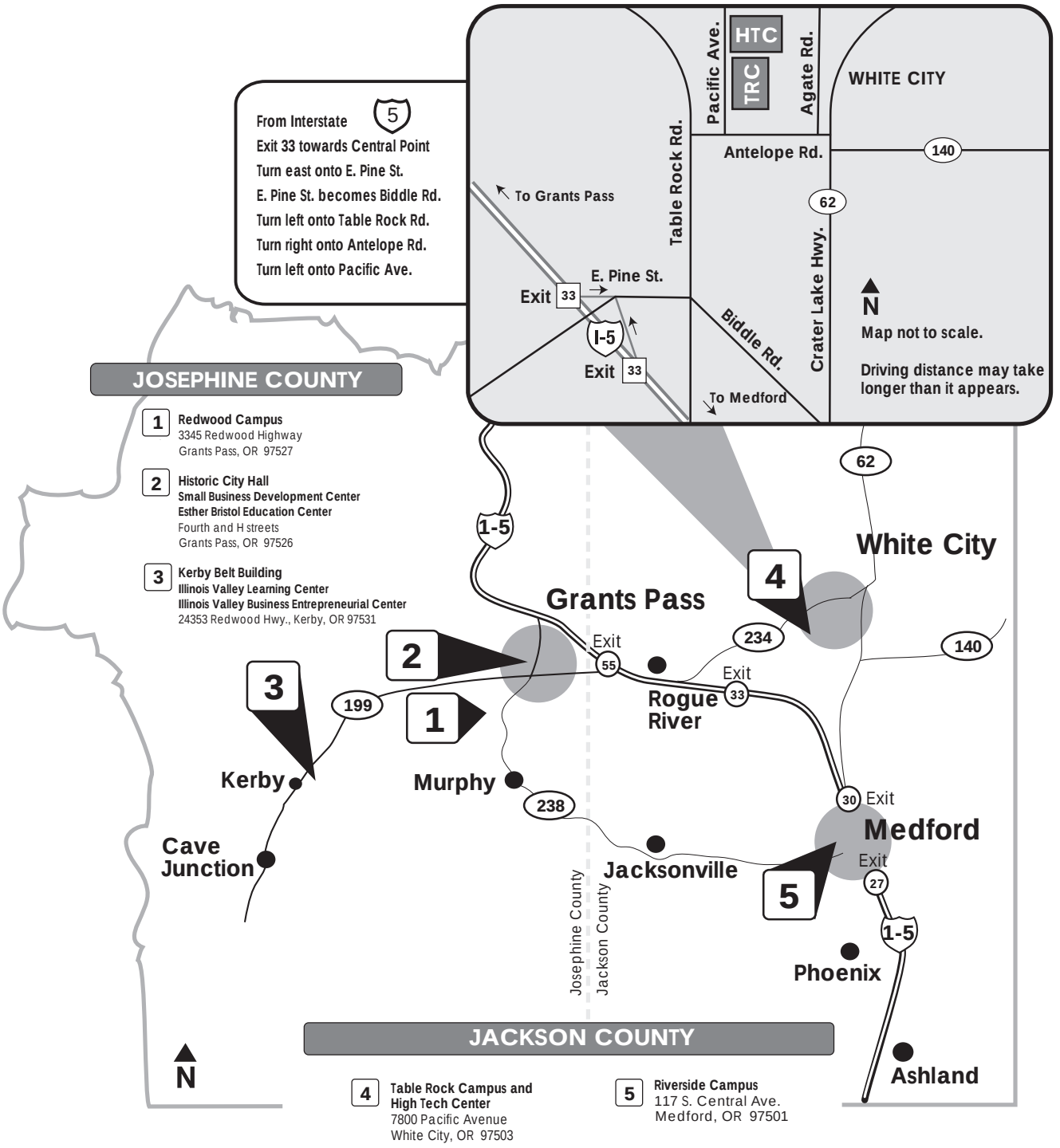
Maps

RCC DISTRICT

www.roguecc.edu/Maps



Updated 5/4/18

REDWOOD CAMPUS, GRANTS PASS

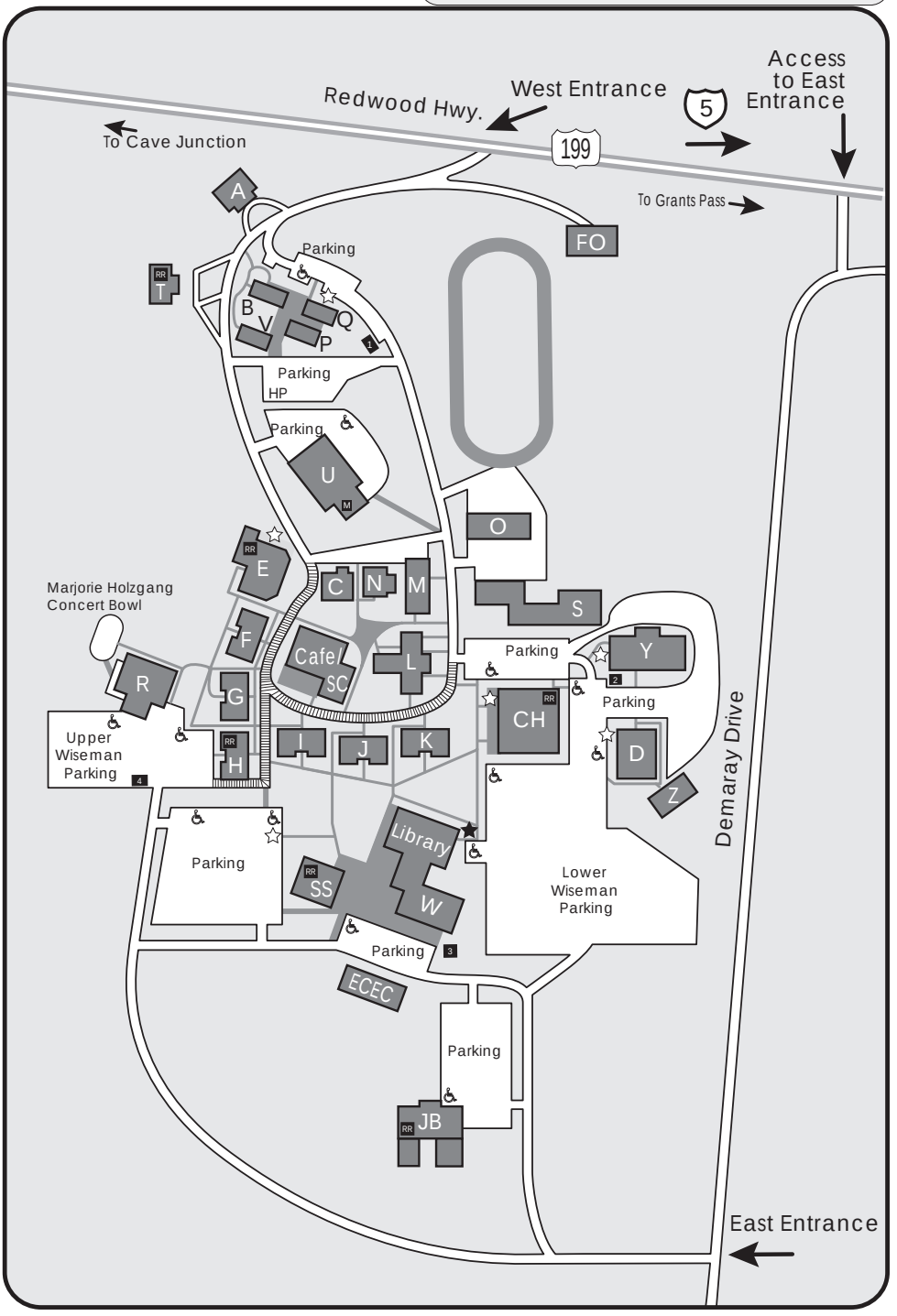
www.roguecc.edu/Maps

3345 Redwood Highway, Grants Pass, OR 97527 • 541-956-7500

Redwood Campus Legend

- A APPLEGATE
  - Continuing Education
  - Workforce Development
- B BLITZEN
  - Nursing
- C CHETCO
  - College Services
  - Information Technology
- CH COATES HALL
  - Computer Science/Labs/Classrooms
  - Help Desk
  - Instructional Media
- D DESCHUTES
  - Art Classrooms/Lab
- 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 Mothering room
- V VANNOY
  - Conference room
- W WISEMAN
  - ABS Faculty offices
  - Disability Services
  - Academic Success Center
  - Library
  - Math Faculty Offices
  - Testing Center
  - Wiseman Art Gallery
- Y YAMHILL
  - Electronics
  - Welding
- Z ZIG ZAG
  - Classrooms

Handicap Parking
1-4 Designated Smoking Area
RR All gender, single use, ADA Restrooms
M Mothering Room
Bike Racks
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

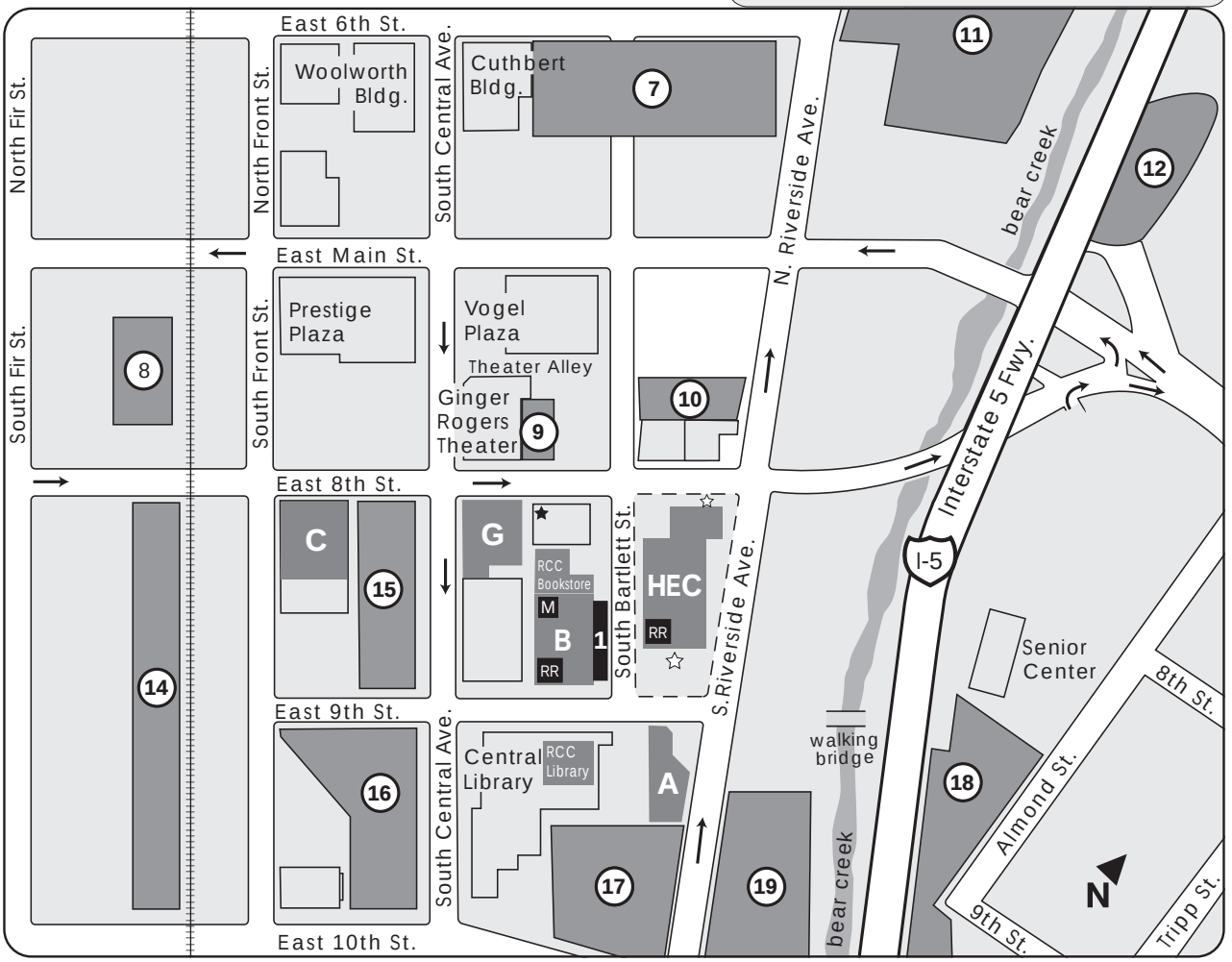
G – 117 S. CENTRAL
- Lower Floor
  - ABE/GED®/ESL classrooms
  - Academic Skills classrooms
  - Instructional Media
- Main Floor
  - ABS Faculty offices
  - Academic Skills Faculty Offices
  - Athletic Director
  - Academic Success Center
  - Security
  - Student Government/Clubs and Adviser
  - Student 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 5
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 E. Barnett Rd.
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
1-4 Designated Smoking Area
RR All gender, single use, ADA Restrooms
M Mothering Room
Bike Racks
Bike Lockers



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

updated 5/22/18

TABLE ROCK CAMPUS, WHITE CITY

www.roguecc.edu/maps

7800 Pacific Ave., White City, OR 97503

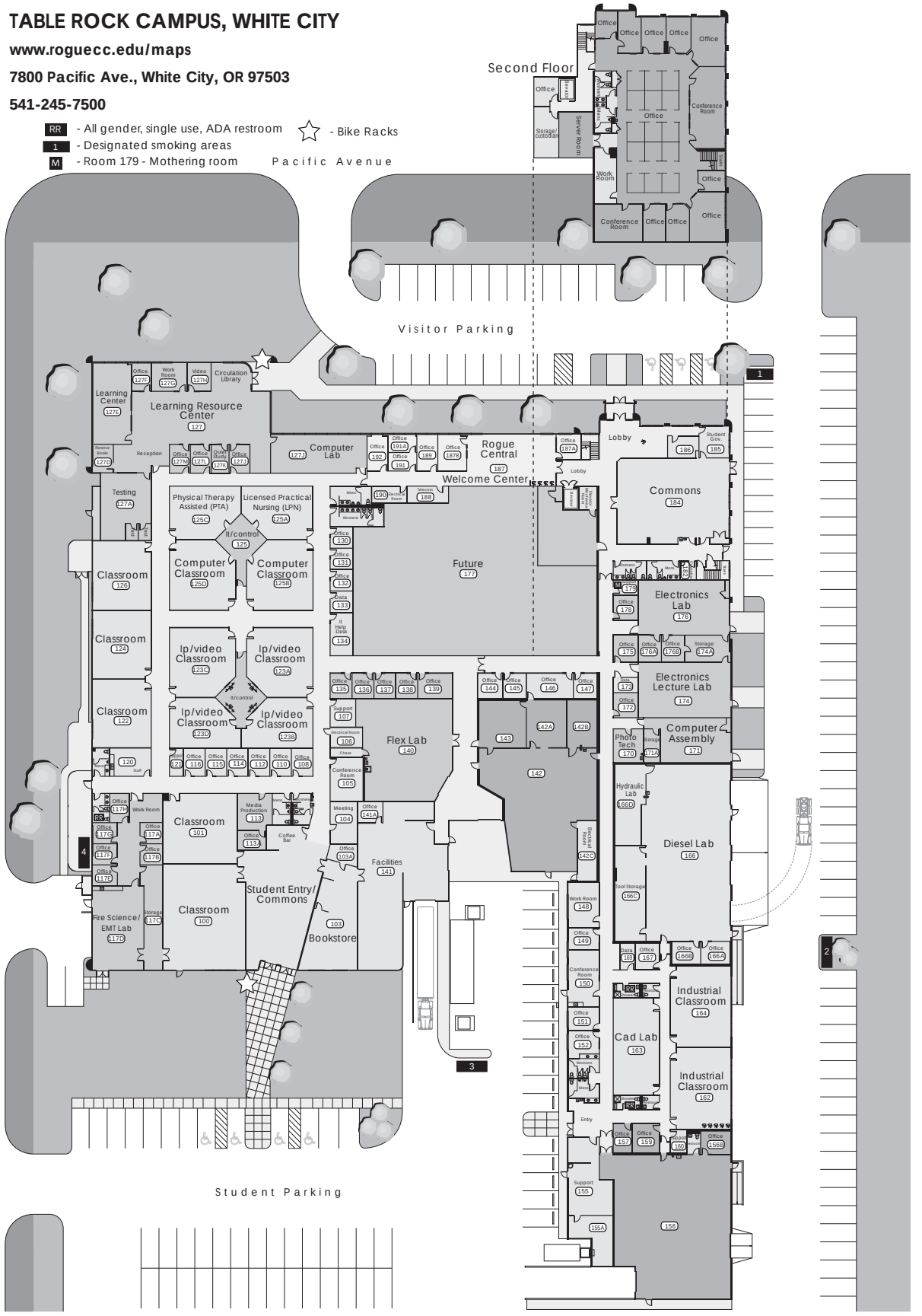
541-245-7500

RR - All gender, single use, ADA restroom

1 - Designated smoking areas

M - Room 179 - Mothering room

☆ - Bike Racks



Updated 5/22/18

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							
11:00-11:30							
11:30-12:00							
12:00-12:30 pm							
12:30-1:00							
1:00-1:30							
1:30-2:00							
2:00-2:30							
2:30-3:00							
3:00-3:30							
3:30-4:00							
4:00-4:30							
4:30-5:00							
5:00-5:30							
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7:00-7:30							
7:30-8:00							
8:00-8:30							
8:30-9:00							
9:00-9:30							
9:30-10:00							

Notes

Rogue Community College
Catalog Errata for printed catalog year 2018-19
http://web.roguecc.edu/sites/web.roguecc.edu/files/Sites/Publications/Catalog/catalog_2018-19.pdf

Page number	Program	Correction
54	**Approved Electives - Humanities**	COMM229 and ENG203 are no longer offered.
64	**AGS Art Interest**	ART291, (listed as an alternate to ART276) is not an available course.
66	**Associate of Arts Oregon Transfer Degree**	SOC218 is 4 credits.
78	**Business Management/ Entrepreneurship/Small Business Management Transfer to Oregon Tech**	General Education Requirements: PSY201 should be listed as PSY202.
80	**AAS Business Technology**	Additional elective course: WR110
81	**Business Transfer to SOU**	In Humanities electives, the English courses should be listed as ENG201, 202.
83	**Computer and Embedded Systems Engineering Technology transfer to Oregon Tech Associate of Science**	CS240L is not a required Core course. Total required core credits = 51. Total program credits = 104.
84		Approved Humanities Electives is 9 credits.
		General Education Requirements: PSY201 should be listed as PSY202.
87	**Computer Support Technician AAS**	COMM225, listed in General Education requirements, is combined with SP111 and SP218. Students select two of the three courses listed.
95	**Diesel Specialist Certificate**	MEC123 Industrial Safety should be MEC103 Industrial Safety (Approved Program Electives).
96	**Diesel Technology AAS**	MEC123 Industrial Safety should be MEC103 Industrial Safety (Approved Program Electives).
107	**Electronics Technology AAS**	BT101 can be an alternate to PSY101 (listed in term 4). The following courses additionally apply to the AAS Elective list: EET118, EET132, MET160, and EET180.
112	**Emerging Media Digital Arts Transfer to SOU**	About the Program, the first sentence of the second paragraph should state: The curriculum allows for 44 core credits...
113	**Emerging Media Digital Arts Transfer to SOU**	Approved Humanities Electives: ART131 should be listed as ENG204, 205, 206.

122	**Fire Officer**	FRP282 should be listed as FRP242 in 4th term.
123	**Fire Science AAS**	ES242 should be listed as FRP242 Introduction to Codes and Ordinances
124		ES205 should not be listed as a program elective. It is required in the third term.
		BA214 and WR227 should be listed as program electives.
129	**Graphic Design: Adobe ® Applications Technician CPC**	Under Prerequisites, the first Course number should be listed as CS120.
130	**Health Care Informatics Assistant Certificate**	CS227 is added to Required Courses. Total Required Course Credits 41-42 Total Program Credits 51-52
135	**High Technology Studies: Plant Systems Technician CPC**	EET112 is a 3 credit course. Total credits for second term are 13. Total program credits are 41.
142	**Information Technology Transfer to Oregon Tech**	General Education Requirements: PSY201 should be listed as PSY202.
143		Note 3 Approved Science Electives should read as follows: At least four credits must be completed from a laboratory-based science course in BI, CHEM or PH.
168	**Paramedicine AAS**	FRP295 should be listed as ES195. ES222 should be listed as EMS222. ES223 should be listed as EMS223.
173	**Sociology Interest AAOT**	Oregon Tech should be included in the list of public universities offering a related degree in the subject.
181	**AH170, AH171**	Courses are 4 credits each.
185	**AM120**	Course title is: Automotive Maintenance and Practices
185	**AM122**	This is course is not dual numbered with DS112.
187	**BA213**	The pre-req for BA213 is BA212.
197	**DS120**	Course title is: Diesel Practices
197	**DS112**	This is course is not dual numbered with AM122.
201	**EET199**	Number of credits is 1-6.
230	**SPAN111**	Number of credits is 1-3.
Last updated December 7, 2018		

The following courses are currently available as dual credit at high schools in Jackson and Josephine County. Additional high schools in the state also may offer limited courses aligned with RCC.

Course Number	Course Title	Credits
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
BT160	Business Math	4
BT250	Entrepreneurship	3
CG105	Finding the Money: Scholarship Essay Writing	1
CG140	Career Development	3
CG147	Decision Making	1
CS120	Concepts in Computing I	4
CS125db	Data Base Management Systems	3
CS125dv	Introduction to Digital Video	3
CS125ss	Spreadsheet Applications	4
CS125ww	Word Processing Applications	3
CS135dv	Advanced Digital Video	3
CS140	Introduction to Operating Systems	4
CS179	Introduction to Networks	4
CS195	Web Authoring I	4
GD120	Digital Graphic Design I	3
GD140	Electronic Publishing Applications I	3
GD150	Computer Illustration (Illustrator)	3
GD160	Digital Imaging (Photoshop)	3
GD190	Introduction to Animation (Adobe Animate)	3
CJ101	Introduction to Criminology	4
CJ110	Introduction to Law Enforcement	4
CJ120	Introduction to the Judicial Process	4
CJ130	Introduction to Corrections	4
DS120	Diesel Practices	6
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
ED170	Introductory Practicum	2
EET101	Introduction to Electronics	3
EET112	Introduction to Mechatronics	3
ENG104	Introduction to Literature (Fiction)	4
WR115	Introduction to Expository Writing	3
WR121	English Composition I	4
AH100	Medical Terminology: Introduction	3
CG155	Exploring Careers in Health Care	3
HCI120	Introduction to the Health Care Industry	3
HE112	Emergency First Aid	1
HE252	First Aid/CPR	3
HE261	CPR/Basic Life Support Provider	1
HE253	Wilderness First Aid	3
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) w/Lab	5
MTH252	Calculus II (integral) w/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
BI101	Introduction to Biology I w/Lab	4
BI102	Introduction to Biology II w/Lab	4
BI103	Introduction to Biology III w/Lab	4
BI121	Elementary Anatomy and Physiology I w/Lab	4
CHEM104	Introductory Chemistry I w/ Lab and Recitation	5
ENV111	Introduction to Environmental Science	3
GS104	Physical Science w/Lab	4
ECON115	Introduction to Economics	3
ECON201	Principles of Microeconomics	4
ECON202	Principles of Macroeconomics	4
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	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
SPAN101	First Year Spanish I	4
SP111	Fundamental of Public Speaking	4
WLD101	Welding Fundamentals I	3
WLD102	Welding Fundamentals II	3
WLD104	Blueprint Reading-Mechanical	3