Rogue Community College
Catalog 2020-21

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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Catalog committee: Dani Crouch, Amy Durst, Denise Kerr, Ryanne Mitchell, Denise Nelson, Courtney Rasmussen, Carmen Sumner, Nicole Sakraida, Jodi Simons, Sally Snyder, Grant Walker, Barbara Wicks, and Marita Wilder

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Contents

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

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
541-956-7400

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

Riverside Campus buildings:

A Building

202 S. Riverside Ave.

B Building

227 E. Ninth St.

C Building

130 E. 8th St.

Medford Library

205 S. Central Ave

G Building

117 S. Central Ave.

RCC/SOU Higher Education Center

101 S. Bartlett St.
541-552-8100

Riverside Campus Learning Center

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

Table Rock Campus

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

High Technology Center

B Building
7932 Pacific Ave.,
White City, OR 97503

Health Professions Center

C Building
7731 Pacific Ave.
White City, OR 97503

Workforce Training Center

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

Table Rock Campus Learning Resource Center

A Building
at Table Rock Campus
541-245-7820

RCC/Fire District 3 Fire Science Center

8383 Agate Rd.,
White City, OR 97503

2020-2021 Academic Calendar

	2020 Summer	2020 Fall	2021 Winter	2021 Spring
Veteran/Qualified dependents registration[1,2]	May 22	May 22	Nov. 20	Mar. 5
Priority registration[2]	May 26	May 26	Nov. 23	Mar. 8
New student/open registration[2]	June 1	June 1	Nov. 30	Mar. 12
Fall In-service (offices closed until 2 pm)		Sep. 15		
New Student Welcome Day		Sep. 16		
Week 1 Standard term begins[3]	**July 6**	**Sep. 21**	**Jan. 4**	**Apr. 5**
Week 2 Initial refund[4]	Jul. 16	Oct. 2	Jan. 15	Apr. 16
Week 3 Honors Night				Apr. 23
Week 7 Foundation scholarship applications available		Nov. 2		
Week 7 Foundation scholarship early bird deadline			Feb. 15	
Week 7 Graduation application deadline[5]			Feb. 15	
Week 7 Spring Inservice				May 21
Week 9 Foundation scholarship application deadline			Mar. 1	
Week 10 Federal Direct Loan application deadline	Aug. 20	Nov. 27	Mar. 12	Jun. 11
Standard term ends	**Aug. 27**	**Dec. 4**	**Mar. 19**	**Jun. 18**
Commencement				Jun. 19
Standard break between terms (no classes)	Aug. 31 – Sep. 18	Dec. 7 - Jan. 1	Mar. 22 - Apr. 2	Jun. 21 – Jul. 8

The college will be closed on the following dates:

July 3, 2020: Independence Day (observed)
All Fridays July 17, 2020 – September 11, 2020
September 7, 2020: Labor Day
November 11, 2020: Veterans Day
November 26 – 27, 2020: Thanksgiving
December 18 – 29, 2020: Winter Closure
January 1, 2021: New Year's Day
January 18, 2021: Martin Luther King Jr. Day
February 15, 2021: Presidents' Day
May 21, 2021: Inservice
May 31, 2021: Memorial Day (observed)

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

[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] Check your schedule. Actual course dates may vary.
[4] Refunds begin for: Pell, SEOG, and Direct Loans (other than first time borrowers). For All other refund dates see the term calendars.
[5] Deadline for students graduating at the end of spring or summer term. Visit www.roguecc.edu/Commencement/ApplyingforGraduation.asp.

Dates are subject to change. Check www.roguecc.edu/Calendar/Academic/ for current information.

web.roguecc.edu/strategic-planning/rccs-strategic-plan-2017-2020

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 as individuals, to be transparent, ethical and accountable.

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

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

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

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

1. Access to Educational Opportunities

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

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

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

2. Student Success

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

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

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

3. Collaborative Partnerships

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

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

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

Welcome to RCC

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

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

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

Authority and Governance

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

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

The HECC and CCWD, in coordination with the State Board of Education are responsible for 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 3 to 4 years in a 7 year cycle to ensure student learning through quality education and overall college effectiveness. Accreditation also qualifies RCC for federal grants and other funding, including financial aid for students enrolled at the College.

Americans with Disabilities Act & Section 504

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

Budget

For information, visit www.roguecc.edu/Budget.

Campus crime awareness and security

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

Closures

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

To learn more about RCC alerts, visit https://web.roguecc.edu/risk-management/rogue-community-college-alerts.

Consumer information

All consumer information is available online at web.roguecc.edu/about-rcc/consumer-information.

Electronic communication

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

Foundation

www.RCCFoundation.org

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 $11 million in assets and supports the college through scholarships and direct funding to programs.

Faculty and staff

www.roguecc.edu/Directory

RCC employs approximately 310 regular employees: 49 exempt staff, 83 full-time faculty, 162 full-time classified, and 16 part-time classified staff. In addition, the college employs more than 450 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.

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

Pursuant to the Family Educational Rights and Privacy Act (known as FERPA) and relevant law, RCC staff shall not disclose personal information including but not limited to any RCC student's immigration status. In addition, no RCC staff member shall ask about any student's immigration status or that of a student's family members.

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

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

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

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

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

Students

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

Frequently called numbers

www.roguecc.edu/Directory

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

Social media at RCC

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

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

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

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

RCC Campus App. A mobile platform for RCC students to network, learn, and keep up on campus activities. Available at the Apple Store, Google Play, or https://web.roguecc.edu/student-life/rcc-campus-app.

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

www.youtube.com/RogueCCVideos
YouTube is a site for viewing, uploading and sharing videos. Visit the RCC channel for fun and informative videos about RCC.

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

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

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

RCC website ..... www.roguecc.edu.

The RCC Catalog is a publication of Rogue Community College. Every effort is made to ensure accuracy at the time of printing; however, the information contained herein is not to be regarded as an irrevocable contract between a student and the college.

RCC reserves the right to change or cancel a class at any time and to alter stated policy of the RCC Board of Education.

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

Admissions and Registration

step 1

Apply for Admissions (www.roguecc.edu/Admissions).
Write down your RCC Student ID number and password you just created. Log in to your myRogue account (www.roguecc.edu/myRogue). myRogue is where most of your college business will take place.

step 2

Determine how you will pay for school.
Complete your FAFSA (www.fafsa.gov) or
Complete your ORSAA (www.oregonstudentaid.gov).
To follow your financial aid status, log in to myRogue and click on "Financial Aid Status."
Need assistance? Call TRiO-ROC for help with your FAFSA.
Grants Pass: 541-956-7097 and Medford: 541-245-7699.

step 3

The Placement Process (web.roguecc.edu/placement-process).
All new RCC students must complete the placement process before registering for classes. This requirement may be completed based on college transcripts, placement test results from another college, qualifying SAT/ACT scores, a placement assessment and more. Contact recruitment@roguecc.edu for more information.

step 4

Register for Classes (www.roguecc.edu/schedule).
Registration assistance is available during our Advising and Registration Clinics (ARCs)(www.roguecc.edu/ARC) where you'll meet with an advisor and register for classes.

step 5

Complete New Student Orientation (NSO).
(www.roguecc.edu/SignUps/NSO)
You must complete the NSO before you begin classes. The NSO is designed to give you tools for success at RCC including information about RCC, paying for classes, and student support services.

step 6

Complete the Online Student Training Modules.
Campus safety is everyone's business. The Online Student Training Module is a required training for all RCC students. It includes information about drug and alcohol abuse as well as freedom from sexual harassment and discrimination.

You will receive an email from Rogue Community College with a link and instructions to complete these trainings. If you have any questions or concerns please contact Chauncey Kieley at ckieley@roguecc.edu.

For more information

Financial Aid and Paying for College
www.roguecc.edu/financialaid
web.roguecc.edu/student-services/rcc-trio-one-name-three-programs

Admissions
www.roguecc.edu/admissions

The Placement Process
www.roguecc.edu/placement-process

Advising and Registration
www.roguecc.edu/advising

New Student Orientation
www.roguecc.edu/SignUps/NSO

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 Transition Specialists 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, 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 go through the placement process 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 Transition Specialists 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 and a half hour clinics provide new students with the opportunity to learn how to prepare, plan and register for next term's courses and to continue these practices throughout the college experience.

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

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

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

First Term Course-Placement

www.roguecc.edu/placement-process

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

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

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

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

For more information about your placement process options, contact the Transition Specialists at recruitment@roguecc.edu.

Placement Assessment

www.roguecc.edu/assessment

If you are unable to be placed using the multiple options, RCC provides a placement assessment called Accuplacer NextGen. Students take an untimed, user-friendly computerized assessment. RCC offers a free placement assessment at any of the three campuses: Riverside Campus (Medford), Redwood Campus (Grants Pass), and Table Rock (White City).

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.

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

- ART115 Basic Design (Composition).
- ART116 Basic Design (Color Theory).
- ART120 Introduction to Digital Art.
- ART131 Introduction to Drawing (Value).
- ART132 Introduction to Drawing (Line).
- ART133 Introduction to Drawing (Mixed Media).
- ART222 Graphic Design (Typography).
- ART234 Figure Drawing I.
- ART237 Illustration (Black and White Media).
- ART238 Illustration (Color Media).
- ART239 Illustration (Perspective).
- ART253 Ceramics I.
- ART257 Beginning Jewelry and Metalsmithing.
- ART276 Sculpture I.
- ART281 Painting I.
- ART287 Aqueous Media.
- ART294 Watercolor I.
- CIS60 PC Basics (Introductory computer class).
- HE112 First Aid.
- HE261 CPR/Basic Life Support Provider.
- MUS131 Class Piano I.
- MUS135 Beginning Hand Drums.
- MUS137 Group Guitar – Beginning.
- PE185 Physical Education (activity course).
- TA141 Fundamentals of Acting.
- TA144 Improvisational Theater.

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

Transfer credit

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

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

Transfer credit evaluation

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

- Get admitted to RCC.
- Order official transcripts from **all** previous colleges.
- Declare a major at RCC.
- Provide course descriptions for any course taken more than 10 years ago that will be considered toward the evaluation.
- For evaluation of military credit, order an official military transcript.
- See "Credits earned through other programs" on page 13.

New Student Orientation

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

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

The online NSO is required for every new student. It takes approximately 15 minutes to complete and can be done at an individualized pace. Log in to myRogue, then select "New Student Orientation."

Freshman Experience

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

- Appropriate math course each term.
- Appropriate writing course each term.
- CG100 College Success and Survival.
- CG140, CG150 or CG155 Career Development Course.
- CIS120 Concepts in Computing I.
- COMM115 Introduction to Intercultural Communication.
- RD120 Critical Reading and Thinking.
- PSY101 Psychology of Human Relations.

See an advisor for details.

Freshman Experience program learning outcomes

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

Credit class refund and withdraw deadlines

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

Registration

See the online registration schedule for priority registration times and additional information about registration options. Student Records, StudentRecords@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 themselves online, or in person at Student Records if they do not plan to attend. Only those who have paid in full are eligible for priority registration.

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

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

myRogue

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

Logging on to myRogue

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

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.

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

Non-Attendance drop

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

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

Students unable to attend the class during the first class session should contact the instructor prior to the class meeting if they wish to avoid being dropped for non-attendance from that class. Contact information for instructors is online at www.roguecc.edu/Search/PhoneNumbers.

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

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

Official Drop or Withdrawal from classes

- Students may drop from a term-length class through Friday of the first week of the term; Thursday week one for summer term until 11:59 p.m. Tuition is refunded in full (and financial aid adjusted if necessary) when a student drops from 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 they earned based on syllabus requirements. If that grade is F or NP, the instructor must enter the last date of attendance on the online grade roster, which becomes the official withdrawal date.

Cancellation of classes

The college reserves the right to cancel any class due to extenuating circumstances such as low enrollment. Students will receive a full refund for canceled classes. Because changes do occur, students should verify their class schedules, before the term begins, at www.roguecc.edu/myRogue.

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 2020-21:

- Oregon residents – $116 per credit hour.
- Out-of-state residents – $142 per credit hour.
- International students – $387 per credit hour.
- Technology fee – $7 per credit/ $7 per non-credit class.
- College services fee – $17 per credit up to 15 credits.
- GED instruction – $65 per term.
- GED test fee – 4 tests, $38 each = $152.
- Non-credit classes – tuition varies by class or workshop and is published each term. A $7 technology fee may be assessed in addition to the workshop or class fee.
- Late registration: maximum of $45. Late Fees: $10 late fee on delinquent accounts, assessed Friday of week 3, 5, and 7.
- Late payment fee – 5 percent of tuition or $5 whichever is higher. Nonpayment fee: Due Tuesday week 2 of the term: 5% of the outstanding balance or $5 whichever is greater.
- Installment fee – $25.
- Returned check fee – $25

Residency

Tuition

A student's residence determines the tuition he or she will pay for classes. The college has three tuition schedules: in-state, out-of-state, and international. Documentation may be required to establish residency. Items that may be considered valid proof of residency include an Oregon drivers license, property tax bill or utility bills (dated 90 days prior to the first day of the term). Students who cannot provide any one of the appropriate documents will be charged tuition as determined by the Director of Enrollment Services.

In-state

A student may register as an in-state student if one of the following requirements is met:

- Has maintained a permanent address in Oregon for at least 90 continuous days prior to the first day of the school term.
- Is a permanent resident of Oregon but currently is stationed for military duty outside of Oregon.
- Was honorably discharged or separated from active duty with the military service within the past three years (See page 30 for details).
- Is a resident of Oregon who left the state for summer employment.
- Is a resident of California, Idaho, Nevada or Washington.
- Was considered a resident at the time of admission, has maintained continuous enrollment and is a spouse or dependent of an active military member assigned to duty out-of-state.
- Is a Native American or Alaska Native who graduated from an Oregon public or private high school.

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 (Tuesday in summer term) or an installment plan must be in place. Students whose tuition is paid by an agency need a voucher or purchase order on file before the payment deadline.

There is no automatic drop for non-payment for current term charges (see "Consequences of non-payment" page 11). Students will be responsible for all tuition charges unless classes are dropped by the student by the first Friday 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 username 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 Student Services. 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 (Financial Aid Advising)

Payments may be made at the following Financial Aid Advising locations:

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

Hours generally are 8 a.m. to 5 p.m. Monday through Thursday, 9 a.m.–5 p.m. on Fridays, closed on Fridays 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/myRogue.

Student installment plan

www.roguecc.edu/Installment

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

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

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

Students who use the installment plan must pay $50 of the current term's charges and a $25 non-refundable administrative fee by the payment deadline, listed at www.roguecc.edu/Calendar/academic.

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: FinAidAdvising@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. Community Education and Workforce Development classes must be dropped at least three working days prior to the class start date to be eligible for a full refund.

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

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

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 Student Records, available at www.roguecc.edu/Enrollment/forms.

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

Academic Information

Academic standing

www.roguecc.edu/Enrollment/SASP

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

Choosing a major

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

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

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

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

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

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

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

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

Course grading

Program courses

The quality of student work in most core program courses is measured by a system of grades consisting of five letter grades which are used in calculating grade point average.

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

NOTE: A "D" or "F" grade will not satisfy prerequisite or program requirements.

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

Academic success courses

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

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

Grade point average calculation

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

For example:

A = 4 grade points

B = 3 grade points

C = 2 grade points

D = 1 grade point

F = 0 grade points

Pass/No Pass (P/NP) courses are not factored in the student's GPA. I (Incomplete), ** (Retaken Course), 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 first Friday of the term, or for classes with irregular meeting dates after completing one third of the course. Students may withdraw any time until Friday of the eighth week. Grades of W are not included in GPA calculations.

Last date of attendance

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

Seat Class: last date of in-person attendance.

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

Retaking a course

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

This process will become automated when the new RCC student information computer system launches, and will no longer require a student to fill out a form.

Course numbering

- Personal Enrichment. Courses with numbers below 1.000 (e.g., .601 and .200) are considered to be personal enrichment courses and are not intended for program completion or transfer and are not financial-aid eligible.
- Academic Success. Courses with letters (e.g. CIS, CG, MTH, RD, WR) followed by numbers of less than 100 (e.g., MTH20) are generally considered academic success courses and are sometimes financial-aid eligible.
- Career and Technical. Courses identified by the following prefixes: AH, AM, APR, BT, CIS, CPL, DA, DDM, DS, ECE, EET, EMS, ES, FRP, HC, HCI, HD, HS, MA, MAA, MEC, MET, MFG, MT, NUR, PN, PRX, SPT, SRV, WLD are career and technical courses. Most of these courses apply to career and technical degrees and certificates from RCC. They are financial-aid eligible if required or are an approved elective of an aid eligible program.
- Occupational Supplementary. These courses, numbered 9.xxx (e.g., 9.263), are designed to upgrade the skills of workers currently employed in occupations or industries. These courses generally do not lead to a degree or certificate. Continuing education units (CEUs), a form of recognition given to units of training, are often given in lieu of credit and are generally not financial-aid eligible.
- Lower Division Collegiate. These courses that are generally accepted by four-year colleges are identified with letters and numbers (e.g., WR121), with the exception of courses with the career and technical prefixes previously listed and are generally financial-aid eligible.

Credits earned through other programs

Submit documentation as outlined below.

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

Advanced Placement (AP)

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

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.
- Meet the above criteria or are otherwise deemed appropriate substitutions for RCC courses.

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

College-level courses taken in countries other than the United States need to be evaluated by a member of the NACES accredited agency and then compared to the RCC transfer credit acceptance criteria. A list of current National Association of Credential Evaluation Services (NACES) members may be found online at www.naces.org/. Students may use the NACES member of their choice for a course-by-course or comprehensive evaluation, including grades.

Dual Credit

Dual Credit requires students to submit a completed RCC application online and may also need to complete and submit an underage enrollment form. Contact your high school counselor/liaison for assistance or the dual credit coordinator at HSA@roguecc.edu with questions.

College Now

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

Early College

This dual enrollment program allows high school students at participating high schools to become traditional RCC students during their high school years. Early College students take RCC campus or online courses taught by RCC instructors with the intention of completing a RCC certificate or education plan of study. High schools approve students to enroll in college courses and may grant college credit towards the student's high school diploma. Approved Early College classes are subject to be billed to the high schools at a discounted rate.

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 slight-

Advanced Placement Exam chart

Advanced Placement Examination	Scores	Credits	Course
Art – Drawing	3+	4	ART131
Art – History	3	4	ART204
Art - History	4+	8	ART204, ART205
Art – Studio 2D	3+	3	ART115
Art – Studio 3D	3+	3	ART276
Biology	3	12	BI101,102,103 w/lab
Biology	4+	12	BI211,212,213 w/lab
Cal. AB**	3	5	MTH251
Cal. AB**	4+	10	MTH251,252
Cal. BC**	3	10	MTH251,252
Cal. BC**	4+	15	MTH251,252,253
Chemistry	3	5	CHEM104
Chemistry	4+	15	CHEM221,222,223 w/lab
Chinese Language and Culture	3+	12	Humanities Elective
Comparative Government and Politics	3+	4	Social Science Elective
Computer Science A	3	4	CS133
Computer Science A	4+	4	CS161
Computer Science Principles	3	3	Computer Proficiency Elective
Computer Science Principles	4+	4	CS160
English Language and Comp	3+	4	WR121
English Literature and Comp	3+	4	ENG104
Environmental Science	3+	4	ENV111 + 1 credit non-lab science elective
French Language and Culture	3+	12	Humanities Elective
German Language and Culture	3+	12	Humanities Elective
Government and Politics (United States)	3+	3	PS201
History (European)	3+	4	Social Science Elective
History (European)	4+	8	Social Science Elective
History (United States)	3+	4	HST201
History (United States)	4+	8	HST201,202
History (World)	3	4	HST104
History (World)	4+	8	HST104,105
Human Geography	3+	4	GEOG110 + 1 credit social science elective
Italian	3	12	Humanities Elective
Italian	4+	12	Humanities Elective
Japanese Language and Culture	3+	12	Humanities Elective
Latin	3+	12	Humanities Elective
Macro Economics	3+	4	ECON202
Micro Economics	3+	4	ECON201
Music Theory	3+	8	MUS111,112
Physics 1	3	4	GS104
Physics 1	4+	5	PH201
Physics 1 & Physics 2	3	5	PH201
Physics 1 & Physics 2	4+	15	PH201,202,203 w/lab
Physics 2	3	4	GS104
Physics 2	4+	5	PH202
Physics C (Electricity and Magnetism)	3	5	PH202
Physics C (Electricity and Magnetism)	4+	5	PH212 w/lab
Physics C (Mechanics)	3	5	PH201
Physics C (Mechanics)	4+	5	PH211 w/lab
Psychology	3+	4	PSY201
Spanish Language and Culture	3+	12	SPAN201,202,203
Spanish Literature and Culture	3+	4	Humanities Elective
Statistics	3+	4	MTH243

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

International Baccalaureate Exam (IB) chart

International Baccalaureate Examination		Standard Level Exam score of 5 or higher		Higher Level Exam score of 5 or higher
Course	**Credits**	**Course**	**Credits**	**Course**
Art History	4	Art History Elective	n/a	n/a
Astronomy	4	GS107	n/a	n/a
Biology	4	BI211	12	BI211, 212, 213
Business Management	4	BA101	4	BA101
Chemistry	5	CHEM221	15	CHEM221, 222, 223
Classical Languages	4	100 level Foreign Language	12	100 level Foreign Language
Computer Science	4	CS161	8	CS 161, 162
Dance	3	PE Elective	6	3 credits PE Elective, 3 credits General Elective
Design Technology	4	General Elective	4	General Elective
Economics	4	ECON201	8	ECON 201, 202
Environmental Systems and Societies	4	ENV111	n/a	n/a
Film	4	Humanities Elective	8	Humanities Elective
Further Mathematics (higher level only)	n/a	n/a	14	MTH243, 251, 252
Geography	3	GEOG110	6	GEOG110, 3 credits Geography Elective
Global Politics	4	Political Science Elective	8	Political Science Elective
History	4	History Elective	8	History Elective
Information Technology in a Global Society	4	Computer and Information Sciences Elective	8	Computer and Information Sciences Elective
Language & Literature (English)	4	WR121	8	WR121, ENG104
Language & Literature (other than English)	4	100 Level Foreign Language	12	100 Level Foreign Language
Literature (English)	4	WR121	8	WR121, ENG104
Literature (other than English)	4	100 Level Foreign Language	12	100 Level Foreign Language
Language B (all languages except English)	4	100 Level Foreign Language	12	100 Level Foreign Language
Literature and Performance (English)	4	Humanities Elective	n/a	n/a
Literature and Performance (other than English)	4	Humanities Elective	n/a	n/a
Marine Science	4	GS108	n/a	n/a
Math Studies (standard level only)	4	MTH105	n/a	n/a
Mathematics	4	MTH111	9	MTH112, 251
Mathematics: Applications and Interpretation	4/8	Score of 4 MTH105, Score of 5+ MTH105, 111	8/12	Score of 4 MTH111, 243 Score of 5+ MTH111, 112, 243
Mathematics: Analysis and Approaches	4/9	Score of 4 MTH111, Score of 5+ MTH111, 251	8/17	Score of 4 MTH111,251 Score of 5+ MTH111, 112, 243, 251
Music (Solo, Group or Composition)	3	MUS101	7	MUS101, 108
Philosophy	4	Philosophy Elective	8	Philosophy Elective
Physics	5	PH201	15	PH201, 202, 203

College Level Exam Program (CLEP) chart

College Level Examination Program (CLEP) Credit	Scores	Credits	Course
Composition and Literature			
American Literature	50	3	ENG199
Analyzing and Interpreting Literature	n/a	0	No equivalent
College Composition	n/a	0	No equivalent
College Composition Modular	n/a	0	No equivalent
English Literature	50	3	No equivalent
Humanities	50	3	HUM199
World 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			
Calculus with Elementary Functions	50	5	MTH251
Calculus with Elementary Functions	60	10	MTH251, 252
College Algebra	50	4	MTH111
College Mathematics	50	4	MTH105
Natural Sciences	*50	9	Non-lab Science Elective
Precalculus	50	8	MTH111,112
Trigonometry	50	4	MTH112
Biology	50	9	Non-lab science elective
Chemistry	50	9	Non-lab science elective
Business			
Information Systems and Computer Applications	52	4	BA131
Introductory Business Law	56	4	BA226
Principles of Management	n/a	0	No equivalent
Financial Accounting	50	4	BA211, 212
Principles of Marketing	52	4	BA223

** Score of 500 or above required prior to 1999.* *** No set policy. Requires department evaluation.*

ly between departments. Students should contact the appropriate department chair or program coordinator for more information. Students pay $10 per credit for credit awarded in this manner.

Military experience credit

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

Portfolio credit

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

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

Portfolio credit is awarded to students only as part of a current degree or certificate program based on departmental approval. It is awarded course by course, not in blocks. Students may be required to enroll in CPL120, a course that guides them through the portfolio process. To be eligible for portfolio review, students must have completed at least 12 non-CPL credits at RCC and be enrolled in at least three credits at the time application is made.

Honor rolls

Rogue Community College recognizes superior academic achievement in college-level classes through a President's List and a Vice President's List. To earn inclusion a student must complete at least six graded RCC credits or more, A–F, and meet the following criteria:

- President's List: 3.75 term GPA.
- Vice President's List: 3.5 term GPA.

Courses graded Pass/No Pass are not included in GPA calculations and do not count toward the honor rolls. See "Grade point average calculation" on page 12.

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

Institutional award of degrees and certificates

web.roguecc.edu/commencement/graduation

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 Thursday of the week following the end of each term.

Social Security disclosure statement

Oregon Administrative Rule 581-41-460 authorizes RCC to ask students to provide their Social Security numbers. Numbers will be used by the college for reporting, research, recordkeeping, extending credit and collecting debts.

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

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

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

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

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

Student directory information

www.roguecc.edu/FERPA

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 Student Services. Exemption status keeps the student's name from appearing in print for press releases or for commencement or other awards and recognition by the college.

To accommodate written requests for an individual student's directory information, Student Records will forward written messages to the student whose information is requested. RCC does not contact groups of students for the purpose of solicitation. For information about this service or directory information, email StudentRecords@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 2016-17.
- 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.

- 9 percent graduated by the end of winter term 2018 (certificate seeking) or by end of spring term 2019 (degree seeking).
- 8 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 advisor for specific information about eligibility and potential benefits. RCC cannot answer tax-related questions. For additional information from the Internal Revenue Service, contact the Internal Revenue Service at 800-829-1040 or www.irs.gov.

Transcripts

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

Henry Pete, right, first RCC president.

Understanding college terms

Academic Probation
Status given to students who do not meet Satisfactory Academic Progress (SAP) for the second time. Refer to "Satisfactory academic standing and progress" in the policy section or web.roguecc.edu/satisfactory-academic-standing-and-progress.

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 web.roguecc.edu/satisfactory-academic-standing-and-progress.

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

Academic Alert 1
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 web.roguecc.edu/satisfactory-academic-standing-and-progress.

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

Alpha Zeta Pi
A Rogue Community College honor society recognizing academic excellence.

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

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

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

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

Associate of Science (AS)
A two-year program (90 credits minimum) based on signed articulation agreements with specific public and private universities and designed for students transferring to a designated baccalaureate degree program.

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

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

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

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

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

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

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

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

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

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

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

Credit
A unit of academic credit that represents the hours of class time per week; granted in recognition of coursework completed.
A one credit course offered as lecture or recitation format can range between 10 to 12 class hours per term.
A one credit course offered as lecture/lab format can range between 20 to 24 class hours per term.
A one credit course offered as lab or CWE format can range between 30 to 36 class hours per term.

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

Declare a major
Officially indicate a major or program of study. See "Major."

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

Discipline
A field of study or a category of classes such as humanities or social science. See "Major."

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

Distance education
Classes taught over the internet.

Early College
A program where high school students attend college classes on one of the RCC campuses while still in high school.

Elective
An optional rather than required class.

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

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

Free Application for Federal Student Aid (FAFSA)
The annual application required for students to be considered for federal financial aid programs. Available beginning October 1 of each year at www.FAFSA.gov.

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

Full-time student
A student taking 12 or more credits per term.

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

Grade point average (GPA)
An indicator of a student's term or overall scholastic performance calculated by dividing the total course points by the total applied credits. A=4 points, B=3 points, C=2 points, D=1 point, F=0. (Grades not included in applied credits are AU, I, NP, P, R, W, Y, and Z.)

Graduation guide
List of courses necessary to complete a degree or certificate.

Grant
Award based on financial need that does not require repayment.

Honor roll
Student list based on a GPA calculation based on completion of six graded credits or more.
- President's List – 3.75 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 assessment
Used to determine starting levels in reading, writing and math for new students.

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

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 successfully pass 66.67 percent of credits attempted, earning A, B, C, or P grades. Unsatisfactory progress may result in being placed on academic alert I or II, 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 WR121) 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 Region of the Northwest Athletic Conference (NWAC). The college hosts men's and women's soccer and women's volleyball.

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

If you would like to know how you can support or join the Ospreys, please visit www.roguecc.edu/athletics.

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.

Student Employment Services

web.roguecc.edu/career-and-student-employment-services

- Redwood Campus, Wiseman Bldg., 541-956-7323
- Riverside Campus, G Building, Room 205, 541-245-7538
- Table Rock Campus, A Building, Room 127I, 541-245-7954

Searching or applying for a job?

Student Employment 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.

Campus Employment

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

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

For job listings, visit https://www.governmentjobs.com/careers/roguecc/transferjobs or visit or visit Student Employment for more assistance.

Counseling

www.roguecc.edu/Counseling

- Student Services Building, Redwood Campus, 541-956-7192
- G Building, Riverside Campus, 541-245-7552
- Table Rock Campus, A Building, 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 are available and offer the following services on a limited drop-in basis and by appointment:

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

Academic advising

Academic advising is provided by trained faculty and staff who can answer questions about college and educational objectives, help with program planning and class selection to meet academic goals, and answer questions about transferring to other colleges.

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

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

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

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

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

Career counseling and planning

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

The RCC website provides useful career exploration resources. 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 cre-

ate barriers to success. Students at RCC may obtain short-term, solution-focused counseling at no charge. Support groups for specific populations are also available. Please contact Counseling for more information. Some of the reasons why students seek counseling services are:

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

Counseling FAQs

Are services confidential?

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

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

How do I know if I need counseling?

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

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

Will counselor services become part of my academic record?

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

Who are the counselors?

For counselor names, phone numbers and locations visit www.roguecc.edu/Counseling/counseling-advising-department-staff.

What other services are offered?

- Assistance with grade appeals.
- Conflict mediation.
- Human development and career guidance courses.
- Student compliant and grievance support.
- Substance abuse referrals.
- Title IX reporting support.

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, A Building, Room 191, 541-245-7537, Oregon Telecom Relay Service, 711

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

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

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

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

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

Servicios de Discapacidades

www.roguecc.edu/DisabilityServices

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

Los Servicios de Discapacidades coordinan con personas quienes toman apuntes y quienes interpretan con lenguaje de señas. También los servicios brindan consejeros para estudiantes con discapacidades de 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 Discapacidades 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 Discapacidades para obtener autorización para el guía antes de asistir a clases o eventos en el campus.

Registrar's Office

www.roguecc.edu/Enrollment

- Student Services Building, Redwood Campus, 541-956-7427
- G Building, Riverside Campus, 541-956-7427
- Table Rock Campus, A Building, Room 187, 541-956-7427

Registrar's Office is responsible for enroll-

ment 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 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 webpage (above), email Financial Aid Advising at FinAidAdvising@roguecc.edu, or stop by a Student Services service counter at these locations:

- L 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: FinAidAdvising@roguecc.edu.

Go to my.roguecc.edu to monitor your financial aid status. On the login button, choose Student Portal Homepage.

Login with your RCC Microsoft student user credentials (see https://go.roguecc.edu/department/student-computer-labs/frequently-asked-questions for more info on login and user names). Choose, “My Financial Aid” and then “Award Offer”. If you have been awarded financial aid, you will be able to click the “view” button of your award letter for more information.

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.
- Can demonstrate applicable need for financial assistance.

Eligibility for state aid generally follows federal rules, except for undocumented residents who may apply for state grants with an Oregon Student Aid Application (ORSAA) at https://oregonstudentaid.gov/oregon-promise.aspx.

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

How to apply

1. Complete one annual Free Application for Federal Student Aid (FAFSA or Renewal FAFSA) for the academic year. Online applications are available at www.fafsa.gov. 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 applicants if additional application documents are required.
3. Complete and return any requested documents right away. Applicants 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, 2020. More information about these programs and application deadlines is available from Financial Aid Advising and on the RCC website on the Financial Aid webpage.

Where’s the aid?

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 Financial Aid Advising through the first week of the term.

On the second Friday of the term, students who have extra financial aid on their RCC student account will receive an electronic refund via BankMobile®. For students who are dual-enrolled at SOU and have submitted a dual enrollment form, RCC will issue payment to SOU before releasing a refund of extra financial aid to BankMobile® accounts.

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

NOTE: After RCC receives your SAR and you register for classes, look for a BankMobile® welcome package in the mail. Activate the electronic refund preference immediately to avoid delays in receiving the refund. For questions visit www.bankmobilevibe.com.

Return of Title IV funds policy

When students receive financial aid but totally withdraw before completing at least 60 percent of a term, or if they earn a combination of all F, NP, or W grades (unofficial 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 document 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.

RCC defines term enrollment levels as follows:

Full-time, 12 or more aid-eligible credits.

Three-quarter-time, 9-11.

Half-time, 6-8.

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

Awards made after the drop deadline will be based on actual aid-eligible enrollment. Awards generally are not adjusted after eligible payment except in the case of no attendance, a complete withdraw through 60 percent of the term, or documented institutional error. For more information on how withdrawing might affect financial aid, review the "Withdrawing?" Repayment Policy document at web.roguecc.edu/financial-aid/financial-aid-forms.

Satisfactory academic progress requirements

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

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 a dual enrollment agreement at the beginning of the term. 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 percent of $6,345 annually are disbursed for up to four quarters. Lifetime maximum is 18 full-time equivalent quarters.
   - Iraq and Afghanistan Service grants of up to maximum Pell, less up to 7.3 percent may be available in lieu of a Federal Pell grant to eligible dependents of those who become totally and permanently disabled or died as a result of qualified service.
   - The Office of Student Access and Completion (OSAC) awards scholarships ranging from $1,000-$10,000 or more to Oregon residents who enroll at least half time during their cohort term. Full value requires full-time enrollment and half value for part-time enrollment (6-11 credits) is available fall, winter and spring terms.. Funding is limited; only FAFSA applicants with the highest need may be eligible. For more information, call 800-452-8807, or visit www.oregonstudentaid.gov. Lifetime maximum is 12 full-time equivalent quarters.
   - Oregon Promise Grant was new as of 2016-17 to qualified residents who graduated high school with cumulative 2.5 GPA or completed a GED® with scores of at least 150, and who enroll at least half-time at an Oregon community college within six months. Most tuition charges not otherwise covered by Pell or OOG is the value. Not eligible for summer enrollment. Funding is subject to legislative approval.
   - Federal Supplemental Educational Opportunity Grants (FSEOGs) are worth up to $100 per term and awarded to early applicants who attend at least half-time and who demonstrate high financial need. Funding is limited; submit the FAFSA early.
   - The RCC Foundation (www.rccfoundation.org) and the Oregon Student Assistance Commission (www.getcollegefunds.org) provide numerous scholarship opportunities. In addition, RCC maintains an online list of scholarships made possible by various organizations. Amounts, eligibility, and application deadlines vary. Peak application season is mid-fall through early March, but some opportunities exist year-round. Contact Financial Aid Advising 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 Student Employment Services.
   - Wiseman Building, Redwood Campus, Grants Pass, 541-956-7091
   - G Building, Riverside Campus, Medford, 541-956-7091
   - A Building, 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 Financial Aid Advising. RCC has the right to refuse or limit origination.

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

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

To apply, submit a written request to Financial Aid Advising 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 advisors. The Dependents of Fallen Oregon Service Members form is available at www.roguecc.edu/Enrollment/forms.

Financial Literacy

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

I3's "IonTuition" platform, specializing in helping student loan borrowers navigate repayment as well as providing financial literacy resources to the college community. For more information borrowers can call 855-456-2656 (toll-free). For more information, see https://www.iontuition.com/FAQs.

Graduation

www.roguecc.edu/graduation

- 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 www.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

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

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

Time limit for program completion

There is no time limit to complete a certificate or degree program as long as it has not been terminated or suspended and the required program-specific courses are still offered at RCC. The college may elect any set of catalog requirements to complete from the year a student begins a program through the current year. Degree and certificate awards are dependent on program availability at the time of completion. Requirements for many programs are subject to change each year. If students have had a gap in enrollment of more than four consecutive terms, consult an advisor about available catalog year options.

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

Graduation residency requirement

Students must earn a minimum of 24 credits toward the degree at RCC to earn a two-year degree, a minimum of 12 credits toward a certificate at RCC to earn a one-year certificate, or at least 25 percent of total credits toward a less than one-year certificate or a Career Pathway certificate. The remainder of credits required to graduate may be transferred from an accredited institution or earned through credits for prior learning. No more than 25 percent of a programs credits may be earned through credit for prior learning.

Human Development and career guidance

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

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

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

Latino Services

www.roguecc.edu/LatinoServices

541-www.bankmobilevibe.com

Latino Outreach and Recruitment

RCC Latino Outreach & Recruitment provides additional support for prospective and current Latinx students. Staff support students with the enrollment process, transitioning into college, and throughout their college experience. Students will also receive resources and support for paying for college (scholarships, FAFSA, ORSAA, and the Oregon Promise Grant). For more information call 541-245-7711.

Be Beca Ready workshops

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

Educación, un Mundo de Oportunidades (EMO)

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

Helping Oregon Latinos Advance (HOLA) Summer Bridge Program

www.roguecc.edu/HOLA

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

- Fun with new college friends.
- Learning how to be a successful college student.

- Research into college majors and careers.
- Mapping which classes to take.
- Identifying how to get money for college.
- Earning college credits at no charge.

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

Southern Oregon Latino Scholarship Fund

www.solsf.org

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

541-245-7711

Latino Outreach and Recruitment

RCC Latino Outreach and Recruitment ofrece ayuda adicional para los actuales y futuros estudiantes Latinx. El personal de RCC ayudara a estudiantes con el proceso de inscripción, y la transición al colegio. Estudiantes van a recibir recursos y ayuda que les ensena cómo pagar por sus estudios (becas, FAFSA, ORSAA, y Oregon Promise). Pare más información, hable al 541-245-7711.

Be Beca Ready Workshops (Taller De Becas)

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

Educación, Un Mundo de Oportunidades (EMO)

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

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

541-245-7585

El programa HOLA Summer Bridge es un evento anual GRATUITO de 5 días diseñado para ayudar a los estudiantes Latinx a ingresar en Rogue Community College. El objetivo de este programa es ayudar a aumentar la preparación universitaria a recién graduados de secundaria para el otoño de 2019.

La clase de una semana incluye:

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

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

RCC Mobile App for Students "Rogue Connect"

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

To download Rogue Connect, search "Rogue Community College" in the Apple App Store or Google Play. Find links on the web at: web.roguecc.edu/student-life/rcc-campus-app.

Student Services

www.roguecc.edu/StudentServices

- Student Services Building, Redwood Campus, 541-956-7501
- G Building, Riverside Campus, 5 41-245-7501
- Table Rock Campus, A Building, Room 187, 541-245-7501

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

Student life

www.roguecc.edu/StudentLife

- Redwood Campus, 541-956-7324
- G Building, Riverside Campus, 541-245-7710

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

Athletics department

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

Clubs

web.roguecc.edu/asgrcc/asgrcc-clubs

ASGRCC Offices:

- RWC Student Center, 541-956-7033
- RVC G Building , 541-245-7729
- TRC Room 104, 541-245-7730

The Associated Student Government of Rogue Community College (ASGRCC) provides some initial funding for on-campus clubs and organizations. The roster of clubs may change each year depending upon interest and active participation. Some examples of clubs are Christ on Campus, Veterans Club, Green Campus Initiative, and the Drama Club. Students interested in more details or in initiating a new club on campus should contact the director of clubs or stop by the ASGRCC offices on the Redwood or Riverside campuses.

Honor Society (Alpha Zeta Pi)

web.roguecc.edu/alpha-zeta-pi

Contact: 541-245-7710

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

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

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

Student government

www.roguecc.edu/ASGRCC

- Student Center, Redwood Campus, 541-956-7033
- G Building, Riverside Campus, 541-245-7729
- TRC , A Building, Room 104, 541-245-7730

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

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

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

Positions may vary on each campus.

Student Services Assistants

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

TRiO programs

TRiO Rogue Opportunity Center (ROC)

www.roguecc.edu/TRiOROC

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

The TRiO ROC provides 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 participants including:

- FAFSA completion assistance
- Assistance in completing admissions applications
- Pre-college testing assistance
- Assistance with scholarships
- Financial aid workshops
- College research

Eligible participants must 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.
- Visits to Oregon colleges and universities.
- Exposure to cultural events and volunteer opportunities.

Eligible participants must 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, SC-Building, Veterans Resource Center, 541-956-7168
- Riverside Campus, G Building, 1st floor, 541-245-7738
- Table Rock Campus, call 541-245-7738

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

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

Transcripts

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

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

Getting started at RCC

For information about starting at RCC and obtaining Veterans Educational Benefits, visit the RCC Veterans Services website. The website will direct you to complete your FAFSA (Financial Aid) application. If you have questions on how to get started at RCC, please contact a Veterans Coordinator on the Redwood or Riverside campuses.

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

Apply for your Veterans Benefits

To apply for your Veterans Educational Benefits please visit Vets.gov 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

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.). This course is tuition and fee free for all student Veterans.

Topics include:

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

Veterans Resource Center

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

Rogue Community College VRC Mission Statement:

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

Assistance includes:

- Financial aid and disability services.
- GI bill application.
- Peer-to-peer support.
- Campus and RCC website navigation.
- Scholarship applications.
- MyRogue student portal assistance.

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

Veterans Access, Choice, and Accountability Policy

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

- A veteran using educational assistance under either chapter 30 (Montgomery GI Bill® - Active Duty Program) or chapter 33 (Post-9/11 GI Bill®), of title 38, United States Code, who lives in Oregon while attending a school located in Oregon (regardless of the student's formal State of residence) and enrolls in the school within three years of discharge or release from a period of active duty service of 90 days or more.
- Anyone using transferred Post-9/11 GI Bill® benefits (38 U.S.C. § 3319) who lives in Oregon while attending a school located in Oregon (regardless of the student's formal state of residence) and enrolls in the school within three years of the transferor's discharge or release from a period of active duty service of 90 days or more.
- Anyone described above while remaining continuously enrolled (other than during regularly scheduled breaks between courses, semesters or terms) at the same school. The person so described must have enrolled in the school prior to the expiration of the three year period following discharge or release as described above and must be using educational benefits under either chapter 30 or chapter 33 of title 38, United States Code.
- Anyone using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311(b)(9)) who lives in Oregon while attending a school located in Oregon (regardless of his or her formal State of residence).
- Anyone using transferred Post-9/11 GI Bill® benefits (38 U.S.C. § 3319) who lives in Oregon while attending a school located in Oregon (regardless of the student's formal state of residence) and the transferor is a member of the uniformed service who is serving on active duty.
- The policy shall be read to be amended as necessary to be compliant with the requirements of 38 U.S.C. 3679(c) as amended.

Voter registration

Rogue Community College is committed to promoting voter registration and civic engagement among our students. The Associated Student Government is an active force in this effort and works to ensure each student is aware of voter resources. For more information and to register online, visit https://sos.oregon.gov/voting-elections.

Registration line, 1980s

Resources

Activities calendar

www.roguecc.edu/Calendar

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

Adaptive technology lab

www.roguecc.edu/DisabilityServices

- 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 asisstive 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.

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, Student Entry 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 http://www.allpointnetwork.com/locator.aspx. Call 800-809-0308 option 2 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.

RCC Online Bookstore

www.rogueccbookstore.com

bookinfo@roguecc.edu

Students may purchase texts and required supplies through the online bookstore (www.rogueccbookstore.com), offering 24/7 shopping and convenient home delivery. RCC does not have a walk-in bookstore.

Students who register for classes may create an account at the online bookstore. Once an account is created, continuing students will have access from term to term. Once you are registered, the books for your courses will be listed when you log in to the store. Visa, Mastercard and American Express are accepted.

Open Educational Resources

To help students afford college, RCC aggressively pursues Open Educational Resources (OERs). 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

Are eBooks or rentals available?

Yes! eBooks and rentals are available for some items. Students are encouraged to look for these less expensive options when selecting their texts.

Buyback

Buyback is available through the Online Bookstore. Buybacks are based on anticipated future national demand for a book and current stock level

Returns

For return of items purchased please visit the Return Policy page on the bookstore website.

Other Questions?

Please see the FAQ page on the bookstore site at www.rogueccbookstore.com.

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. The service picks up students at the downtown transit center in Medford and the Table Rock Campus. 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

211 Info

www.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.

HelpLine

www.community-works.org/need-help

541-779-4357

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

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

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.
Business line: 541-476-3877

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

Computer labs

- Coates Hall, Redwood Campus, 541-956-7424
- B Building, Riverside Campus, 541-245-7534
- RCC Library-Jackson County Central Library, 205 S. Central, Medford, 541-245-7512
- Table Rock Campus Library lab, 541-245-7820
- Table Rock Campus instructional lab, 541-245-7990
- Higher Education Center instructional lab, HEC-124 first floor

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

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

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

Copiers

Coin-operated copy machines for student use are available.

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

Distance learning – Rogue Online

http://roguecc.blackboard.com

RO@roguecc.edu

- Riverside Campus, 541-245-7514
- Redwood Campus, 541-956-7038

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

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

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

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

At the Table Rock Campus, a Micro-Market is located in the East Commons offering a variety of lunch, breakfast and snack items, including a variety of beverages. The Micro-Market is available for use during regular campus hours.

Health services

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

RCC does not offer accident and illness insurance plans for students. To find information on the Oregon Insurance Marketplace, visit https://healthcare.oregon.gov/Pages/index.aspx.

Instructional Media Services and IP Video Network

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

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

Internet Protocol (IP) video network services are also provided. They include interactive video and audio connectivity available on all RCC campuses. Through this system, classes are shared between RCC locations, meetings are conducted without participants having to drive, and connections are made to other community colleges and government agencies throughout Oregon. Web conferenceing 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 Academic Success Center, G Building, Medford, 541-245-7701
- Illinois Valley Learning Center, Kerby Belt Bldg., Kerby, 541-956-7455
- Redwood Campus Learning Center, K Building, Grants Pass, 541-956-7253
- Learning Resource Center, Table Rock Campus, White City, 541-245-7820

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

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

Library Services

www.roguecc.edu/library

- Wiseman Center, Redwood Campus, 541-956-7152, Fax 541-471-3588
- 2nd floor of the Central Library, Riverside Campus, 541-245-7512, Fax 541-774-1046
- Learning Resource Center, Table Rock Campus, 541-245-7820, Fax 541-245-7975

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 material online through the library catalog, which can be delivered to any RCC campus for pickup. The RCC Library provides database access to thousands of online journals and e-books.

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

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

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

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

Lockers and showers

For students enrolled in physical education classes, lockers and showers are available in the Redwood Campus Gym, Grants Pass, and in C Building on the Riverside Campus, Medford. Students must supply their own locks, towels and personal items.

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

Mothering rooms

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

- Riverside Campus, B Building, 9th St. entrance. For access, contact Security at 541-218-2931.
- Redwood Campus, U Building (Gym), women's locker room area.
- Table Rock Campus, Room 179.

The clean, private areas allow any breastfeeding mother on campus to breast feed or express milk. The rooms are accessible any time the buildings are open. For more information, contact Facilities and Operations at ext. 7333..

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 by the City of Medford and monitored by Diamond Parking Services. Call 541-774-2082 for parking cost and permit information.
- Table Rock Campus Buildings A, B, and C: Parking is free in designated lots.

Restrooms

Public restrooms are available at these sites when the buildings are open for classes:

- Redwood Campus: The Student Center/Cafeteria; Coates Hall; E, F, H, K, L, T and U (Gym) Buildings; and the Josephine, Rogue, Student Services, and Wiseman Buildings. All-Gender ADA restrooms are located in the Student Center/Cafeteria; E, H, K, L, S, and T Buildings; and the Josephine and Wiseman Buildings.
- Riverside Campus: A, B, C and G Buildings, the Central Library, and the RCC/SOU Higher Education Center (HEC). All-Gender ADA restrooms are located in B Building and the HEC.
- Table Rock Campus: First and second floors. All-Gender ADA restrooms are available near the EMT area and at the NE entry.
- Small Business Development Center
- Illinois Valley Learning Center.

Security

web.roguecc.edu/risk-management/campus-security

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

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

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

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

Reporting crime

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

- Campus Security at the Redwood Campus may be reached 24 hours per day 7 days per week via cell phone at 541-218-2930.
- Campus Security at the Riverside Campus may be reached between 7 a.m. and 11 p.m. Monday – Friday and from 7 a.m. – 7 p.m. on Saturday via cell phone at 541-218-2931.
- Campus Security at the Table Rock Campus may be reached between 7 a.m. and 10:30 p.m. Monday – Friday and between 7 a.m. and 7 p.m. on Saturday via cell phone at 541-218-3639.
- Accident and Injury reports can be filed online at https://web.roguecc.edu/risk-management/campus-security#IR
- Crime reports and incident reports submitted to Campus Security are covered under state law and are subject to public record requirements.

Vehicle emergencies

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

State government

Oregon elections are held in May and November. A list of state elected officials is available at www.oregonlegislature.gov.

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, 541-956-7323
- Riverside Campus and Table Rock Campus, 541-245-7538

On-campus student employment is available to students enrolled in six 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. Posession of or being under the influence of controlled substances could lead to santions from RCC. Students who would like information regarding alcohol or drug treatment agencies are urged to contact Counseling 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, A Building, 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.

Academic Success Centers

www.roguecc.edu/tutoring

- Wiseman Center, Redwood Campus, Grants Pass, 541-956-7340
- G Building, Riverside Campus, Medford, 541-956-7213
- Learning Resource Center, A Building, 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 pages on the RCC website for more options.

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

Vending machines

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

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

Walking and jogging trail

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

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.

Students must go through the placement process to determine their academic levels before enrolling. Some Academic Success classes also may be required for certain career and technical programs.

NOTE: A student may receive federal and/or state financial aid for a maximum of 45 attempted developmental education credits (see the RCC Satisfactory Academic Progress policy for a definition of "developmental education" credits). A student who is receiving financial aid and who enrolls in necessary developmental education credits beyond 45 must notify the RCC Financial Aid Office in writing so that aid may be adjusted to reflect only eligible enrollment. Notification should be given to Financial Aid Advising 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. Eligible students can earn free college credit while studying with the ABS program. New and returning Adult Basic Skills students should call a learning center in their area to schedule an ABS orientation. In addition, employers who want to provide basic skills training for their workers may contract for services that are designed especially for their work sites. Call one of the centers listed above for more information.

Adult Basic Skills classes

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

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

General Educational Development (GED®)

www.roguecc.edu/GED

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® preparation courses and guided study in English is available at all campuses.

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

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

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

GED® Testing

www.roguecc.edu/GED

- Redwood Campus GED examinations, Grants Pass, 541-956-7340
- Table Rock Campus GED examinations, White City, 541-245-7820

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 and free vouchers are available for RCC students as budget allows. 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, 541-245-7701
- Redwood Campus Learning Center, K Building, Grants Pass, 541-956-7253

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

Services for employers

ELA program, Medford, 541-245-7556

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

Habilidades Básicas para Adultos (ABS)

www.roguecc.edu/ABS

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

Clases de Habilidades Básicas para Adultos (ABS)

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

Se requieren evaluaciones durante la orientación, para colocar a los estudiantes en los niveles apropiados de las clases de Adqui-

sisión de Lenguage de Inglés (ELA) o clases de Educación Básica para Adultos /GED (ABE/GED) o programas de estudio guiados.

Educación General Desarrollo (GED®) en español

www.roguecc.edu/GED

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

Las clases de GED® cuestan $65 por término o trimestre. Las clases de preparación para el GED® y el estudio guiado en inglés están disponibles en todos los campus.

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

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

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

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

Exámen de GED®

www.roguecc.edu/GED

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

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

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

El exámen de GED® está disponible en:

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

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

Adquisición del idioma inglés (ELA)

www.roguecc.edu/ABS/ESL.asp

- *Riverside Campus Learning Center, G Building, Medford, 541-245-7701*
- *Redwood Campus Learning Center, K Building, Grants Pass, 541-956-7253*

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

Servicios para Empleadores

Programa de ELA, Medford, 541-245-7556

Las clases de Habilidades Básicas (ABS) y las clases de Adquisición del Lenguaje de Inglés (ELA) pueden ser adaptadas a las necesidades específicas de los empleadores y sus empleados. El programa de Habilidades Básicas para Adultos (ABS) de RCC y el Departamento de Entrenamiento Personalizado en RCC hacen un contrato con empleadores para satisfacer sus necesidades, diseñar un currículo, y proporcionar instrucción. Las clases pueden ser llevadas a cabo en el lugar de trabajo del empleador o del empleado, o en uno de los campus de RCC.

Children on campus

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

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

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

Copyright infringement

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

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

Rogue Community College is an Open Institution.

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

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

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 cumulative grade point average (GPA) and
- At least a 66.67% cumulative credit completion rate by successfully passing credits attempted and earning A, B, C, and P grades. Calculated by dividing cumulative earned credits by cumulative attempted credits and
- The ability to complete their program of study within the 150% maximum time frame, calculated by taking program credit length and multiplying that by 150%.

Academic Alert I Status

A student will be placed on Academic Alert I status if any of the following occurs:

- A student does not earn a cumulative GPA of 2.0, and/or
- A student does not pass 66.67% of their overall cumulative credits they attempt with grades of A, B, C or P.

For these reasons at the end of the first term of unsatisfactory academic progress a student will receive notification along with the satisfactory academic progress policy which is linked to the report card. The notification will:

- Inform and explain academic status.
- Provide a list of approved intervention tasks that must be completed during the term.

The status of a student placed on Academic Alert I will be noted on the student's transcript.

At the end of the term a student on the Academic Alert I status will have their satisfactory academic standing re-evaluated. If the student has at least a cumulative GPA of 2.0, and has at least a 66.67% completion rate and can complete their program within the maximum 150% time frame the student will be considered in Good Academic Standing status.

Academic Alert II/Financial Aid Suspension Status

If unsatisfactory academic progress continues, the student is placed on Academic Alert II/Financial Aid Suspension status. Students may continue taking classes, but if applicable, are not eligible for financial aid in this status.

A student will be placed on Academic Alert II/Financial Aid Suspension status if any of the following occurs for two consecutive terms:

- A student does not earn a cumulative GPA of 2.0 and/or
- A student does not pass 66.67% of their overall cumulative credits attempted

The status of a student placed on Academic Alert II/Financial Aid Suspension will be noted on the student's transcript.

A student will receive notification about his/her academic status along with required intervention activities designed to improve academic standing. Credit restrictions may be imposed. For any courses dropped as a result of credit restriction for the following term, the student will receive a 100 percent refund.

A student on Academic Alert II/Financial Aid Suspension status will not be eligible for financial aid unless the student appeals for financial aid reinstatement and the appeal is approved. Students may submit a SAP Appeal to request reinstatement of their financial aid. If the SAP appeal is approved, financial aid students will be placed on Probation (Financial Aid Eligible) status see AP4255 Academic Suspension and Reinstatement for details.

At the end of the term a student on Academic Alert II/Financial Aid Suspension status will have their satisfactory academic standing re-evaluated.

- If the student has at least a 2.0 cumulative GPA, at least a 66.67% credit completion rate and the student can complete their program in the 150% maximum time frame they will be considering in good academic standing.

- If the student does not have at least a 2.0 cumulative GPA and at least a 66.67% credit completion rate the student will be placed on an Academic Suspension status see AP4255 Academic Suspension and Reinstatement.

Academic Alert II/Max Time Frame Financial Aid Suspension

Students who cannot complete their program in the maximum 150% allotted credit time frame, will be placed on an Academic Alert II/ Max Time Frame Financial Aid Suspension. Students may continue taking classes, but if applicable, are not eligible for financial aid in this status.

The status of a student placed on Academic Alert II/Max Time Frame Financial Aid Suspension will be noted on the student's transcript.

Students will remain in this status unless the student appeals for financial aid reinstatement and the appeal is approved. If the SAP appeal is approved, financial aid students will be placed on a Progress Toward Graduation Academic Plan (Financial Aid Eligible) status see AP4255 Academic Suspension and Reinstatement for details.

The status of a student placed on Academic Alert II/Max Time Frame Financial Aid Suspension will be noted on the student's transcript.

Standards for Academic Suspension

Academic Suspension is based three 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 for three consecutive terms of enrollment:

1. A student does not earn a cumulative GPA of 2.0 (cGPA), and/or
2. A student does not pass at least 66.67 percent of attempted credits (cPace) by earning A, B, C, or P grades. Calculated by dividing cumulative earned credits by cumulative attempted credits.

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

Academic Suspension Letter

At the end of these terms of unsatisfactory academic progress, the Director of Enrollment Services will notify the student in writing that they have been academically suspended from further enrollment in credit classes at RCC until reinstated. The letter notifying the student that they are subject to academic suspension will contain an explanation of what academic suspension means, procedure for reinstatement, and the procedure to appeal the suspension.

Appeal of Academic Suspension

In order to return, a student must complete an Academic Return Packet to appeal for reinstatement. All Instructions provided in the academic return packet must be followed in order to be considered for return. The academic return packet must be submitted to the Counseling Department by the deadline noted in the return packet and the student will participate in an in person or web conference meeting with the Academic Reinstatement Committee, if desired or required.

1. The chair of the Academic Reinstatement Committee will notify the student of the Committee's decision in writing within five days of the Committee's decision. If the Reinstatement Appeal is denied the student may appeal the decision of the Academic Reinstatement Committee in writing to the Vice President of Student Services within 7 working days of the date of notification of the decision of the Academic Reinstatement Committee. Students may appeal based on new information that was not provided to the Reinstatement Committee.

Within 10 working days of receiving an appeal the Vice President of Student Services, or designee, will review the request and make a decision. The decision of the Vice President of Student Services is final.

If the reinstatement appeal is granted, the student will be eligible to enroll for an additional term on an academic plan, see Probation Status section. At the end of the additional term, the student's academic record will again be evaluated to determine whether the student should be suspended, or should continue on probation.

The Academic Reinstatement Committee shall be comprised of the College Registrar, the Counseling Department Chair, and a representative from Financial Aid.

Standards for Evaluating Appeals

Reinstatement appeals may be granted under the following circumstances:

- If the academic suspension determination is based on the academic record for one term in which the record does not reflect the student's usual level of performance due to accident, illness, or other extenuating circumstance, then Verification should be submitted with the appeal.
- The student will enroll in a corrective program designed to assist them in improving academic skills, such as obtaining academic counseling, utilizing the tutoring center, and/or limiting course load.

Reinstatement after Academic Suspension

In considering whether or not students may be reinstated after an academic suspension and at least one term absence for the first suspension and one year absence for multiple suspensions, the following criteria should be considered:

- Documented extenuating circumstances (considered during appeal).
- Issues that lead to the suspension between the terms on which disqualification was based have been addressed and rectified.
- Terms on which disqualification was based were atypical of past academic performance.
- Informal educational experiences since completion of term on which disqualification was based.
- Improved GPA as a result of grade changes or fulfillment of incomplete courses.

If the appeal is approved the student will be placed on a probationary status. RCC has two probation statuses. The first is Probation Status, this status is used for appeals based on enrollment in a corrective plan and not extenuating circumstances. The second probation status at RCC is Probation (Aid Eligible Status), this status is used for appeals based on documentable extenuating circumstances.

Probation Status

Students on a Probation status are not financial aid eligible, however they will have an academic plan designed to bring the student back into good academic standing. Under the academic plan students will be limited in the number of classes they may take. Students who are placed on probation must show overall improvement at the end of each term. If a student meets these requirements they will remain on a probation until they have at least a 66.67 cumulative credit completion rate and a 2.0 cumulative GPA.

Students who do not fulfill the requirements of their academic plan will be academically suspended again, see Second or More Academic Suspension section.

Probation (Aid Eligible) Status

Students on a Probation (Aid Eligible) status may not have been academically suspended and may have appealed for financial aid reinstatement after being placed on Academic Alert II/Financial Aid Suspension status see AP 4250 Academic Alert I and Academic Alert II/Financial Aid Suspension.

Students on a Probation (Aid Eligible) status are financial aid eligible, and they will have an academic plan designed to bring the student back into Good Academic Standing. Under the academic plan students will be limited in the number of classes they may take. Students who are placed on Probation (Aid Eligible) must show overall improvement at the end of each term. If a student meets these requirements they will remain on a Probation (Aid Eligible) status until they have at least a 66.67 cumulative credit completion rate and a 2.0 cumulative GPA.

Students who do not fulfill the requirements of their academic plan will be academically suspended.

Second or More 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 the second academic suspension. A student may appeal in the corresponding term in the next academic year. A student must appeal for reinstatement in-person or via a web conference to the Academic Reinstatement Committee.

Student rights, freedoms and responsibilities

PREAMBLE

At the time of printing this policy and procedure were under review. For the most up-to-date information search "Student rights, freedoms and responsibilities" at www.roguecc.edu.

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

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

PURPOSE

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

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

1. ACCESS TO THE COLLEGE AND EDUCATION

RCC believes in an open-door philosophy and within the limits of its resources, will be open to all students who are qualified according to current admissions requirements. The College complies with Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act of 1992 and other applicable laws and regulations. In compliance with state and federal laws, RCC does not discriminate on the basis of race, color, religion, sex, pregnancy, disability, national origin, citizenship status, ancestry, age, order of protection status, genetic information, marital status, sexual orientation (including gender identity), arrest record status, military status, unfavorable discharge from military service, or any other characteristic protected by federal, state, or local law in employment, or in any of its educational programs, or in the provision of benefits and services to students.

2. THE CLASSROOM

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

2.1. Protection of freedom of expression

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

2.2. Protection against improper academic evaluation

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

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

If a student is not satisfied with the outcome of discussion with the instructor, the student may appeal the decision to the department chair. If a student believes further appeal is warranted the student may appeal a department chair's decision to the dean, Instructional Services, of the school where the instructor's program resides. If a student is not satisfied with the dean's decision, an appeal may be made to the Vice President, Instructional Services. Any decision made by the vice president is final.

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

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

2.3. Protection against improper disclosure

Information about individual student views, beliefs, and political associations, which RCC staff may acquire in the course of their work as employees, is typically considered confidential. Judgments of student ability and character may be provided under appropriate circum-

stances. For example, recommendations for scholarships, employment, program admission, or other related academic issues.

3. STUDENT RECORDS

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

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

4. STUDENT RIGHTS

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

4.1. Freedom of association

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

4.1.1. Membership Policies

4.1.1.1: Student clubs:

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

4.1.1.2: Student organizations

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

4.1.1.3: Recognition

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

4.1.2. College Advisors

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

4.2. Freedom of inquiry and expression

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

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

5. FREEDOM FROM DISCRIMINATION AND HARASSMENT

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

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 procedures AP 3430: Prohibition of Discrimination and Harassment, and AP 3435: Discrimination and Harassment Reports and Investigations found at https://web.roguecc.edu/administrative-procedures. 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 sexual assault may contact a Title IX Coordinator who will work with the student to respond to the incident. The Title IX Coordinators contact information is below.

Lead Title IX Coordinator
Amy Peterson
aspeterson@roguecc.edu • 541-956-7280

Deputy Title IX Coordinator
Chauncey Kieley
ckieley@roguecc.edu • 541-245-7632

Deputy Title IX Coordinator
Sean Taggert

staggert@roguecc.edu • 541-956-7061

5.1.2. Counselors as a resource

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

6. STUDENT PARTICIPATION IN COLLEGE GOVERNANCE

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

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

7. STUDENT PUBLICATIONS

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

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

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

7.1. Censorship

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

7.2. Removal

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

7.3. Disclaimer

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

8. OFF CAMPUS

8.1. Exercise of rights of citizenship

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

8.2. Institutional authority and civil penalties

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

9. STUDENT CODE OF CONDUCT AND PROCEDURES

9.1. Student Code of Conduct

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

The following behaviors are prohibited by the Student Code of Conduct and shall constitute good cause for discipline, including but not limited to the removal, suspension, or expulsion of a student:

a. Causing, attempting to cause, or threatening to cause physical injury to another person.

b. Possession, sale, or otherwise furnishing any firearm, knife, explosive, or other dangerous object, including but not limited to any facsimile firearm, knife, or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from a Rogue Community College employee, which is concurred in by the President or designee.

c. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia. These behaviors are prohibited on campus, at any RCC sponsored activity, or using any RCC controlled technology or resources.

d. Committing or attempting to commit robbery or extortion.

e. Causing or attempting to cause damage to RCC's property or to private property on campus.

f. Stealing or attempting to steal RCC property or private property on campus, or knowingly receiving stolen

RCC property or private property on campus.

g. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the college.

h. Committing sexual misconduct, harassment, or discrimination as defined by law or by RCC policies and procedures. Resolution of these allegations will occur under RCC policies and procedures related to protected class discrimination and harassment.

i. Engaging in harassing or discriminatory behavior based on disability, gender, gender identity, gender expression, nationality, race or ethnicity, religion, sexual orientation, or any other status protected by law. Resolution of these allegations will occur under RCC policies and procedures related to protected class discrimination and harassment.

j. Engaging in intimidating conduct or bullying against a college community member through words or actions, including direct physical contact; verbal assaults, such as teasing or name-calling; social isolation or manipulation; and cyberbullying;

k. Willful misconduct which results in injury or death to a student or to employees or which results in cutting, defacing, or other injury to any real or personal property owned by RCC or on campus.

l. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, college personnel.

m. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.

n. Dishonesty, forgery, alteration or misuse of college documents, records or identification; or knowingly furnishing false information to RCC.

o. Unauthorized entry upon or use of RCC facilities.

p. Lewd, indecent, or obscene conduct directed towards a College Community member regardless of geographic location.

q. Engaging in expression which is obscene; libelous, or slanderous; or which so incites students as to create a clear and present danger of the commission of unlawful acts on college premises, or the violation of lawful RCC administrative procedures, or the substantial disruption of the orderly operation of RCC.

r. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.

s. Failure to follow a directive. Students are required to follow the lawful directives of RCC personnel acting in the performance of their duties.

t. Hazing. Students are not permitted to haze other students. Hazing is subjecting an individual to bodily harm, purposeful mental harm, humiliation, harassment, compelling an individual to consume controlled substances or alcohol, or requiring an individual to commit a crime as a condition or precondition of attaining membership in an organization or attaining any office or status within an organization.

2. Records Retention

Records of alleged student misconduct, documentation of those allegations, evidence used to determine if allegations are substantiated, and the resolution of those allegations will be maintained separate from a student's other educational records and retained in accordance with RCC policies and procedures on record retention.

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

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

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

Direct resolution

If any RCC Employee believes a student is engaged in conduct which violates RCC's standards of conduct – listed in AP 5500 - they are encouraged to attempt to resolve this issue directly with the student. RCC encourages direct resolution but it is not required. If personal safety is at risk please contact 911 or campus security as appropriate. If direct resolution is attempted please complete an incident report regardless of the outcome.

Compliance Coordinator

If direct resolution is inappropriate or unsuccessful the college employee should complete an incident report within 3 working days of the behavior in question. Within 7 working days of receiving the report the Compliance Coordinator, or designee, will contact the student and other involved parties.

The student who is accused of violating RCC's standards of conduct will be contacted to schedule a meeting with the Compliance Coordinator or designee. The Compliance Coordinator, or designee, may use multiple processes to help resolve the issue. The student will be informed of the behavior they are accused of and be allowed an opportunity to explain or deny the behavior.

The Compliance Coordinator, or designee, may – as necessary – conduct an investigation into the accused behavior including reviewing available evidence and speaking to witnesses. The Compliance Coordinator, or designee, will use the preponderance of the evidence standard in determining if a student's behavior violated RCC's standards of conduct.

If a student is found to have violated RCC's standards of conduct the Compliance Coordinator, or designee, may assign a sanction proportional to the student's conduct. Available sanctions are listed in this procedure under the heading Sanctions.

Students will be notified of the Compliance Coordinator, or designee's, decision and any sanction, as appropriate, in writing. When determining a sanction the Compliance Coordinator, or designee, may take a student's disciplinary history with RCC into account.

Appeal to the Vice President of Student Services

Students receiving a written notice of disciplinary action for a violation of RCC's standards of conduct have the right to appeal in writing to the Vice President of Student Services, or designee. Any appeal must be received within 7 working days of receiving the notice of disciplinary action.

Students may appeal based on:

a. Failure to follow the process for resolving allegations of inappropriate behavior as outlined in this procedure;

b. New evidence is available that was not available during the initial investigation; or

c. The sanction imposed is disproportionate to the offense the student is found responsible for.

Within 10 working days of receiving an appeal the Vice President of Student Services, or designee, will review the initial report, the investigation process, the findings, and any sanctions. As part of this process they may consult with RCC administrators to insure consistency and fairness within the process. The Vice President of Student Services, or designee, will report their findings and conclusions to the student and the Compliance Coordinator. The decision of the Vice President of Student Services, or designee, is final.

9.3. Sanctions

If a student is found to have violated RCC's standards of conduct, they may face discipline from RCC. Disciplinary sanctions available to the Compliance Coordinator, or designee, are:

1. Verbal or written reprimand
2. Disciplinary probation
3. Educational Sanction
4. Suspension
5. Expulsion
6. Restitution
7. Other – including directives for behavior and plans of action.

Records Retention

Records of alleged student misconduct, documentation of those allegations, evidence used to determine if allegations are substantiated, and the resolution of those allegations will be maintained separate from a student's other educational records and retained in accordance with RCC policies and procedures on record retention.

Removal from Class or campus

Any RCC employee may order a student removed from campus for the day of the removal and the next day. This removal should be based on behavior that violates the standards of conduct, is causing a significant disruption, and is not corrected when challenged with direct resolution.

The employee shall immediately report the removal to the Compliance Coordinator using an incident report. The Compliance Coordinator, or designee, shall attempt to contact the student within 2 working days of receiving the report to set a meeting.

The purpose of this meeting will be to discuss the conduct that led to the removal from class, attempt to resolve the problem that led to the removal, and determine appropriate disciplinary action.rary 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: www.roguecc.edu/disability-services. On Redwood Campus, Wiseman Building, Tutoring Center, 541-956-7337 or at Riverside Campus, Building B, Room 9, 541-245-7537.

Harassment and sexual assault complaints will be filed according to Administrative Procedure 3430 (AP 3430): Prohibition of Discrimination and Harassment. 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.

10.2 Procedure

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

Drug- and Alcohol-Free Campus

Rogue Community College is committed to providing an environment that fosters excellence in learning for its students and community and in the work performance of all employees. The misuse and illegal use of alcohol, marijuana, and other drugs is contrary to this effort. In keeping with state and federal statutes, the illegal use, possession, distribution, manufacture, or sale of alcohol, cannabinoids (Marijuana), and other drugs, and/or being under the influence of alcohol, marijuana and other drugs is not permitted on college-owned or college-controlled property. There shall be no consumption of alcohol at college-owned facilities unless such use is authorized by the College President. RCC complies with the Drug-Free Schools and Campuses Regulations (EDGAR Part 86) and the Drug-Free Workplace Act of 1990.

Use of tobacco

https://web.roguecc.edu/administrative-procedures/smoking-ap-106

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

Institutional Learning Outcomes

RCC faculty have identified four 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.

Associate of Arts Oregon Transfer

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

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

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

General Education Outcomes

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

ARTS & LETTERS

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

CULTURAL LITERACY

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

INFORMATIONAL LITERACY

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

MATHEMATICS

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

SCIENCE/COMPUTER SCIENCE

- Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions.
- Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically evaluate existing or alternative explanations, solve problems, and make evidence-based decisions in an ethical manner.
- Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

SOCIAL SCIENCE

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

SPEECH/ORAL COMMUNICATION

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

WRITING

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

The Associate of Science Oregon Transfer – Business

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

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

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

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

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

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

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

Associate of Science Oregon Transfer – Computer Science

The Associate of Science Oregon Transfer – Computer Science degree defines a program of study to fulfill lower division general education requirements for a bachelor's degree at Oregon public institutions. It is designed for students transferring to baccalaureate degree programs in computer science or software engineering. Those completing the ASOT Computer Science degree are assured junior level standing and will have met the lower division general education requirements of any public Oregon university.

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

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

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

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

- Two years of the same high school-level language.
- Two terms of college-level language with a grade of "C" or better (may be first-year language which can be used as elective credits).

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

Some schools require physics. It is recommended that students contact the specific school early in the first year of the program or use the ASOT-CS university-specific degree requirements guide to determine any additional science requirements and procedures for admission to a specific school or program.

Associate of Science

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

RCC currently has signed articulation agreements with Southern Oregon University for the following programs: Business, Computer Science, Criminal Justice, Digital Cinema *, Early Childhood Development, Elementary Education, Emerging Media and Digital Arts, Health and Physical Education, Human Services, Outdoor Adventure Leadership; and with Oregon Tech for Business Management, Computer and Embedded Systems Engineering Technology, Cybersecurity *, Engineering transfer programs in Civil, Electrical, Mechanical, and Renewable Energy, Manufacturing/ Engineering Technology, Health Informatics, Information Technology, and Software Engineering Technology. *Pending at time of catalog print.

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

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

Students should be aware that if they transfer before completing this degree or transfer in a major not covered by prior agreements, their courses will be evaluated individually toward the transfer requirements of the college of their choice.

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

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

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

Associate of Applied Science

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

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

Associate of Applied Science degrees are offered in these areas:

Automotive Technology
Business Technology
Business Technology: Accounting Option
Business Technology: Management and Marketing Option
Computer Support Technician
Criminal Justice
Design and Digital Media
Diesel Technology
Early Childhood Education
Electronics Technology
Family Support Services

Approved electives

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

First Aid and Health Electives

HE112 Emergency First Aid

HE131 Introduction to Exercise and Sport Science

HE250 Personal Health

HE252 First Aid/CPR

HE253 Wilderness First Aid

HE261 CPR/Basic Life Support Provider

HPE295 Health and Fitness for Life

Humanities Electives

ART115 Basic Design (Composition)

ART116 Basic Design (Color Theory)

ART131 Introduction to Drawing (Value)

ART132 Introduction to Drawing (Line)

ART133 Introduction to Drawing (Mixed Media)

ART204, 205, 206 History of Art I, II, III *

COMM100 Basic Communication

COMM111 Fundamentals of Public Speaking

COMM115 Introduction to Intercultural Communication *

COMM201 Media and Society

COMM218 Interpersonal Communication

COMM225 Small Group Communication and Problem Solving

COMM237 Communication and Gender *

COMM270 Argument and Debate

ENG104 Introduction to Literature (Fiction)

ENG105 Introduction to Literature (Drama)

ENG106 Introduction to Literature (Poetry)

ENG107, 108, 109 World Literature *

ENG201, 202 Shakespeare I, II

ENG204, 205, 206 Survey of English Literature

ENG253, 254, 255 Survey of American Literature

ENG257 African American Literature *

ENG260 Introduction to Women Writers *

ENG275 The Bible as Literature

HUM101, 102, 103 Introduction to Humanities *

HUM215, 216, 217, 218, 219 Native American Arts and Cultures *

IS110 Introduction to International Studies I *

MUS101 Music Fundamentals I

MUS105 Music Appreciation

MUS108 Music in World Cultures

MUS111, 112, 113 Music Theory and Aural Skills I, II, III

MUS201 Introduction to Western Music

MUS205 History of Jazz

MUS206 Introduction to Rock Music

MUS261, 262, 263 History of Western Music, I, II, III

MUS264, 265, 266 History of Rock I, II, III P

HL101 Philosophical Problems

PHL102 Ethics

PHL103 Critical Reasoning

REL201 World Religions *

REL243 Nature, Religion and Ecology

SPAN201, 202, 203 Second Year Spanish I, II, III *

TA141, 142, 143 Fundamentals of Acting I, II, III

TA144, 145, 146 Improvisational Theater

TA153 Theater Rehearsal and Performance

Social Science Electives

ANTH110 Introduction to Cultural Anthropology *

ANTH150 Introduction to Archaeology

CJ100 Foundations and Ethics in Criminal Justice

CJ110 Introduction to Law Enforcement

CJ120 Introduction to the Judicial Process

CJ130 Introduction to Corrections

CJ200 Introduction to Criminology **

CJ201 Juvenile Delinquency **

CJ214 Criminal Justice and Diversity

CJ220 Law: Substantive Law and Liability

CJ221 Law: Constitutional Criminal Procedure

CJ243 Drugs, Crime and Addiction **

ECON201 Introduction to Microeconomics

ECON202 Introduction to Macroeconomics

GEOG100 Introduction to Physical Geography ****

GEOG110 Introduction to Cultural and Human Geography *

GEOG120 World Regional Geography

HST104 World Civilizations: Prehistory - Middle Ages

HST105 World Civilizations: Byzantium - Present*

HST201 U.S. History through Reconstruction

HST202 History: Post-Reconstruction - Present

HST259 The Chicano/Latino Historical Experience * **

PS201, 202, 203 U.S. Government I, II, III

PSY101 Psychology of Human Relations

PSY119 Psychology of Personal Growth

PSY201, 202 General Psychology I, II

PSY215 Life Span Human Development

PSY219 Introduction to Abnormal Psychology

PSY231 Human Sexuality

SOC204 Introduction to Sociology *

SOC205 American Society *

SOC213 Race and Ethnicity in the U.S. *

SOC218 Sociology of Gender *

SOC221 Juvenile Delinquency **

SOC225 Social Problems and Solutions

SOC228 Environment and Society

SOC230 Introduction to Gerontology

SOC235 The Chicano/Latino Historical Experience * **

SOC243 Drugs, Crime and Addiction **

SOC244 Introduction to Criminology **

Science Electives

BI100 Introductory Biology w/out Lab

BI101, 102, 103 Introduction to Biology I, II, III (non-majors) w/Lab

BI121, 122 Elementary Anatomy/Physiology I, II w/Lab

BI211, 212, 213 Principles of Biology I, II, III w/Lab

BI231, 232, 233 Anatomy and Physiology I, II, III w/Lab

BI234 Microbiology w/Lab

CHEM104 Introductory Chemistry w/Lab and Recitation

CHEM105 Introductory Organic Chemistry w/Lab

CHEM106 Introductory Biochemistry w/Lab

CHEM221, 222, 223 General Chemistry I, II, III w/Lab

CS161U Computer Science I (C++)

CS162U Computer Science II (C++)

CS234U Object Oriented Programming in C++

ENV111 Introduction to Environmental Science w/out Lab

G100 Fundamentals of Geology w/out Lab

G101, 102, 103 Introduction to Geology I, II, III w/Lab

GS104 Physical Science w/Lab

GS106 Physical Science: Earth Science w/Lab

GS107 Astronomy w/Lab

GS108 Oceanography w/Lab

GS170 Regional Field Studies w/Lab***

NFM225 Nutrition

PH201, 202, 203 General Physics w/Lab I, II, III

PH211, 212, 213 General Physics/Calculus w/Lab

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

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

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

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

Fire Science
Human Services
Industrial Welding Technology
Manufacturing/Engineering Technology
Mechatronics
Nursing
Paramedicine

Associate of General Studies

The Associate of General Studies degree is designed to provide students the opportunity to acquire a broad education rather than pursuing a specific college major or career and technical program. The AGS degree includes, in addition to the general education courses listed below, 74-75 credits of lower division college transfer and career and technical education courses. Because of the flexibility of this degree, it may not fulfill requirements for transfer to a four-year institution at the junior level.

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

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

Students planning to transfer to a four-year university may select courses within the requirements of the AGS degree that will apply to the following majors at OUS schools: Architecture, Art, Biology, Chemistry, Geology, Physics, Pre-dental Hygiene, Pre-medical Imaging, and Pre-professional Medicine (Dentistry, Medicine, Optometry, Pharmacy, Veterinary).

Apprenticeships

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

Earn as you learn

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

Construction Trades, General Apprenticeship

- HVAC
- Plumber
- Sheet Metal

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

Electrician Apprenticeship Technologies

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

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

Industrial Mechanics and Maintenance Technology

- Airframe and Power Plant Technician
- Boiler Operator and Repairer
- Millwright

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

As an apprentice, you will:

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

Frequently Asked Questions

Q. What is Apprenticeship?

A. Apprenticeship is not just a job, but a career opportunity! Apprenticeship is a combination of on the job training and classroom training. When they become journey workers earning a journey wage, they are able to give back to the industry by training other apprentices or even teaching apprenticeship classes.

Q. How long must I serve as an apprentice?

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

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

A. Once you are selected as an apprentice, the employer has promised to provide you training in all of the work processes according to the apprenticeship standards. The employer and the instructor evaluate progress and make recommendations to the apprenticeship committee regarding your advancement in the program.

Q. Can I expect steady work as an apprentice?

A. The employer makes every effort to employ the apprentice at least 40 hours a week.

Q. How do I apply for an apprenticeship program?

A. Individual apprenticeship construction committees notify the public when accepting applications. Apprenticeship announcements are posted at Bureau of Labor and Industries' (BOLI) offices, local schools, community colleges, Oregon Employment Department offices, and community organizations. Announcements contain the details about the application process. For the industrial committees, employers hire and promote from within and then refer their candidates to the Apprenticeship Office.

Q. How long must I wait for an opening?

A. The waiting period varies by industry and may last from two weeks to two years. It is a

competitive process and it´s not unusual for people to apply more than once. The apprenticeship coordinator reviews applications for minimum qualifications. Qualified construction applicant's applications are ranked either by an interview, or a random drawing. The applicant is placed on a qualified list called a pool of eligibles, in order of their ranking. Industrial applicants are sponsored by an employer and must meet the minimum qualifications listed in the appropriate apprenticeship standards.

Q. How much pay does an apprentice receive?

A. Although it varies from industry to industry, the average starting wage of an apprentice is 40 to 50 percent of a journey workers rate of pay. Apprentices usually earn a five percent raise every six months if they meet the total work and school hour requirements, and their on-the-job training and school performance is satisfactory.

Q. Are apprentices required to attend school?

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

Q. Are there age limits for apprentices?

A. Each industry establishes its own minimum age requirement, although the typical minimum age is 18. Except in very limited situations, there are no upper age limits on apprentices.

Q. What are the minimum educational requirements for apprenticeship?

A. Apprenticeship programs require applicants to have a high school diploma or GED certificate. Some occupations also require one year of high school algebra with a "C" or better or a placement process placing the applicant in Math 65 or higher or a college transcript with a "P" in Math 60, Math 63 or higher.

Q. Who pays for the classroom training?

A. It varies among different occupations, industries and employers. In some cases, apprentices pay the cost of related training. In other cases, industry pays training costs.

Q. What other costs must be paid by the apprentice?

A. Costs vary by program. Apprentices must have reliable transportation to get to the job and perform work-related errands. Many programs require the apprentice to provide a basic tool kit and/or appropriate work clothes and safety equipment, as well as books for the classes.

Q. Can I use veterans´ benefits as an apprentice?

A. If eligible, an apprentice may use veterans´ benefits while registered in an apprenticeship program.

Q. How do I prepare for apprenticeship?

A. Today´s competitive industries require employees who are able to perform technical tasks, exercise good judgment, and possess a strong work ethic. The importance of a well-rounded high school education cannot be over emphasized. A strong background in math and science is important. Good attendance is a necessity.

For more information, contact the Apprenticeship Department at 541-245-7912 or 541-245-7917.

Certificate programs

Career Pathways, less than one-year, and one year (three to four terms) certificate of completion programs prepare students to enter a

Courses that meet General Education Requirements

General Education requirements	Certificate	Associate of Applied Science	Associate of General Studies	Associate of Arts Oregon Transfer (AAOT)
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 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	3-4 credits: BT113, WR115 or higher	4 credits: WR121	8 credits:WR121 and WR122 or WR227
Communication		3-4 credits: COMM100, COMM111, COMM115 or COMM218	3-4 credits/1 course: COMM100, COMM111, COMM115, COMM218	4 credits/1 course: COMM111, COMM115, COMM218
Alternatives to Writing and Communication (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: CIS120 or documented proficiency within the past ten years	0-4 credits: CIS120 or documented proficiency within the past ten years	0-4 credits: CIS120 or documented proficiency within the past ten years	
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	Associate of Science (Articulated)	ASOT: Business	ASOT: Computer Science	Oregon Transfer Module (OTM)
CREDITS	90-108 credits	90-108 credits	90 credits	45 credits
Purpose	guaranteed transfer, with junior status, to specified 4 year partner via articulation	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	General Education
Writing	37-48	8 credits: WR121 and WR122 or WR227	8 credits: WR121 and WR122 or WR227	8 credits: WR121 and WR122 or WR227
Communication	"8 credits: WR121 and WR122 "	3-4 credits/1 course: COMM100, COMM111, COMM115, COMM218	3-4 credits/1 course: COMM100, COMM111, COMM115, COMM218	4 credits/1 course: COMM111, COMM115, COMM218
Alternatives to Writing and Communication (listed above)	"4 credits/1 course: COMM111 or COMM218"			
Math	N/A	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	4 credits/1 course: Math 105 or higher			
LIB127	N/A			
Demonstrated computer literacy	1 credit/course	4 credits: BA131	16 credits: CS160, CS161J, CS162J, and CS260	
Arts & Letters (Humanities)	"0-4 credits: CIS120 or documented proficiency"	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	9-12 credits from HUM and SOC combined/ at least one course from this discipline	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	9-12 credits from HUM and SOC combined/ at least one course from this discipline Note: Combined Humanities and Social Science must equal 9-12 credits	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	11-15 credits / recommend at least three lab courses in biological and/or physical sciences, courses must be 100-level and above.	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	N/A		3 credits (one or more classes)	
CWE/Practicum/Clinical	N/A			
Electives/Content Area	42-53 (as needed to bring total to 90-108)	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

variety of occupational fields. To qualify for one-and two-year certificates students must meet these requirements:

- Be admitted to the program.
- Complete all required courses with a minimum grade of "C" or "pass." (A complete list of requirements can be found in this catalog under the name of the specific program.)
- Complete any required prerequisites with a minimum grade of "C."
- Complete a minimum of 12 credits toward the certificate at RCC.
- Satisfactorily complete general education requirements required in all certificate programs.

The following certificates are awarded:

Alcohol and Drug Counselor
Automotive Specialist
Basic Health Care
Business Assistant
Manufacturing/Engineering Technology: Computer Numerical Control (CNC) Technician
Dental Assistant
Design and Digital Media
Diesel Specialist
Early Childhood Education
Electronics Technician
Emergency Medical Services
Family Support Services
High Technology Studies
Industrial Welding Technology
Massage Therapy
Mechatronics: Mechatronics Specialist
Mechatronics: PLC Programming
Medical Administrative Assistant
Medical Assistant
Microcontroller Systems Technician
Pharmacy Technician
Practical Nursing
Renewable Energy Technician
Sterile Processing Technician

Career Pathways

To qualify for less than one-year certificates or Career Pathway 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 Pathway certificates are awarded:

Business Assistant: Business and Information Specialist
Business Assistant: Customer Service
Business Assistant: Retail Sales and Service
Business Assistant: Small Business Management
Computer Support Technician: Computer Software Specialist
Design and Digital Media: Adobe ® Applications Technician
Design and Digital Media: Social Media Technician
Design and Digital Media: UI-UX Technician
Design and Digital Media: Video Production Technician
Early Childhood Education (Basic)
Early Childhood Education (Intermediate)
Emergency Medical Services: Emergency Medical Technician
Family Support Services
Fire Science: Firefighter
High Technology Studies: Plant Systems Technician
Industrial Welding Technology: GTAW Welder
Industrial Welding Technology: SMAW Welder
Industrial Welding Technology: Welder's Helper
Industrial Welding Technology: WIRE Welder
Massage Therapy: Entry-Level Therapist
Manufacturing/Engineering Technology: Computer Numerical Control (CNC) Operator
Mechatronics: Fluid Power Specialist *
Mechatronics: Maintenance Technician
Mechatronics: Power Transmission *
Mechatronics: Production Technician
Medical Assistant: Phlebotomy

Career Pathway 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 Pathway Certificates 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, Career Pathway Certificates support transitions for students coming to community college to reach their goals:

- High school to post-secondary education.
- Pre-college (ABE/GED/ELA/AS) preparation.
- Industry experience, workforce skills, and degree upgrades.
- Career seekers and changers.
- Transferring from community college to university.

Career Pathways provide opportunities to earn short-term certificates (12-44 credits) that prepare students for specific career opportunities. Career Pathway certificates can lead to completion of one-year certificates, two-year Associates degrees, Bachelor's and Master's degrees, and employment. Students determine what path to take and work at their own pace to reach their career goals. See an academic advisor for more information.

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/employment considerations

Students in such programs as Criminal Justice, Early Childhood Education, Human Services, or Nursing who have criminal records or certain physical limitations may be excluded from or limited by employers in some practicum or clinical experiences. Students should be aware that a criminal history may be a barrier to future employment. In addition, some employers may not be able to accommodate certain physical limitations in filling positions. Students with concerns about these issues should speak directly to the department chair or program coordinator.

Non-credit training certificates

RCC currently offers two non-credit training certificates, which provide students with short-term training opportunities for jobs in high demand locally:

- Commercial Truck Driving
- Certified Production Technician

For more information, contact Continuing Education and Workforce Development at 541-956-7303.

RCC Medford Center opens, 1985

Transferring

About transferring

www.roguecc.edu/Transfer

- Advising Department/Transfer Center, G Building, Riverside Campus, 245-7552
- L Building, Redwood Campus, 956-7190 (for undeclared and/or exploring majors)

RCC students intending to earn a four-year degree from an Oregon public or private university may complete all the lower-division general education requirements at RCC and begin work on the requirements for a specific major.

Students can prepare for more than 30 transfer majors at RCC where the advantages include smaller classes, lower tuition costs, and teaching excellence. RCC also provides academic support through free tutoring services.

Planning to transfer

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

Transfer advising

Academic and faculty advisors 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 Montana State University – Northern, Oregon Tech, Southern Oregon University, Portland State University, University of Alaska/Fairbanks, University of Phoenix, and Western Governor's University. The college/university connection offers students the option of earning a two-year degree and the opportunity to enroll in university courses at the same time, easing the transitions to a four-year university.

University residency requirements

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

Reverse transfer

Students who earn a certificate or associates 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's 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. Additionally, the following out-of-state schools accept AAOT: Hawaii Pacific University, Brigham Young University–Hawaii, Boise State University, Seattle Pacific University, and Washington State University. Students are strongly 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)
- Business Management (articulated with Oregon Tech)
- Computer and Embedded Systems Engineering Technology (articulated with Oregon Tech)
- Criminal Justice (articulated with SOU)
- Computer Science (articulated with SOU)
- Cybersecurity (articulated with Oregon Tech) *
- Digital Cinema (articulated with SOU)
- Early Childhood Development (articulated with SOU)
- Elementary Education (articulated with SOU)
- Emerging Media and Digital Arts (articulated with SOU)
- Engineering transfer to Oregon Tech: Civil, Electrical, Mechanical, or Renewable Energy (articulated with Oregon Tech)
- Health and Physical Education (articulated with SOU)
- Human Services (articulated with SOU)
- Information Technology (articulated with Oregon Tech)
- Health Informatics (articulated with Oregon Tech)
- Manufacturing and Engineering Technology (articulated with Oregon Tech)
- Outdoor Adventure Leadership (articulated with SOU)
- Software Engineering Technology (articulated with Oregon Tech)

** Final articulation pending at catalog print time.*

Associate of General Studies (AGS)

The Associate of General Studies degree (AGS) offers students a useful alternative for direct transfer. It enables students to complete an associate degree tailored to the general education and academic major requirements of the transfer school. Educational planning for the AGS degree should be done with the assistance of academic advisors.

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

Montana State University — Northern
Students completing the Associate of Applied Science degree in Diesel Technology may transfer to Montana State University – Northern (MSU-N) to pursue a Bachelor of Science degree in Diesel Technology. Students will be granted 60 semester credits (block transfer) or equivalent 90 quarter credits toward the degree. For more information contact the RCC Diesel Technology program at 541-245-7809.

Oregon Tech

Students may transfer to Oregon Tech at any time or complete an Associate of Science following signed agreements between RCC and Oregon Tech. Students who plan to transfer to Oregon Tech's BAS in Technology and Management must graduate from an approved AAS program.

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 can design a successful transfer plan. Planning ahead will save students time and money and will provide the opportunity to make a seamless transition to the university. The SOU/RCC joint enrollment program provides many advantages. Joint enrollment means RCC students have access to most SOU facilities, receive coordinated financial aid and admissions, and enjoy eligibility for SOU student or family housing as well as basic health insurance and medical treatment though the SOU Student Health Center. For more information about joint enrollment or transfer planning, call the Advising Center 541-245-7552, or contact the SOU Office of Admissions, 541-552- 6411, toll free at (800) 482-7672, or via email at admissions@sou.edu.

Southern Oregon University Bachelor of Applied Science Southern Oregon University also offers a Bachelor of Applied Science (BAS) degree in Management for students who have completed an Associate of Applied Science degree in a technical field and want to earn a bachelor's degree. Up to 124 quarter hours may be transferred to the BAS, and the remaining credits are completed at SOU. The BAS degree requires the completion of 180 quarter credits. If students intend to transfer to the BAS program, transfer courses should be chosen as program electives where possible. See an 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 RCC's Associate of Applied

Science degrees in Paramedicine, Fire Science, or Criminal Justice will receive credit for transfer into its bachelor's program. For more information contact RCC's Emergency Medical Services or Criminal Justice department at 541-245-7965.

University of Phoenix

For information about transferring to the University of Phoenix, go to https://www.phoenix.edu/admissions/transfer_information/transfer-guides.html

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% tuition discount. More information can be found at www.wgu.edu.

Affiliations

Lane Community College

RCC partners with Lane Community College to provide training for physical therapy assistants in Jackson and Josephine counties.

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

Most of the program can be completed locally. Clinical placements in the second year of the program will depend on availability of sites. As such, students may have to travel outside their immediate geographic area to a location in the Pacific Northwest.

For information regarding the Physical Therapy Assistant program, visit https://www.lanecc.edu/hp/pta

Linn-Benton Community College

RCC partners with Linn-Benton Community College (LBCC) to provide training for occupational therapy assistants in Jackson and Josephine counties.

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

By taking a combination of RCC classes and distance-learning courses offered by LBCC, the OTA program can be completed while a student is living in the Rogue Valley. Students enrolled in the program will need to travel to the LBCC campus in Albany approximately two to four times a term.

For details on the Occupational Therapy Assistant training, visit

https://www.linnbenton.edu/future-students/programs-of-study/health-and-healthcare/ota.php#/

Transfer advising and articulations

Transfer Subjects	Phone	Degree or Direct Transfer	Transfer Agreements
Architecture	541-956-7140 or 541-245-7527	AGS or Direct	
Art	541-956-7140 or 541-245-7527	AAOT, AGS or Direct	
Biological Sciences	541-956-7066 or 541-245-7527	AGS or Direct	
Business Administration	541-956-7066 or 541-245-7527	ASOT, AS or Direct	Southern Oregon University
Business Management	541-956-7066 or 541-245-7527	AS or Direct	Oregon Tech
Business – Oregon Transfer	541-956-7066 or 541-245-7527	ASOT or Direct	
Chemistry	541-956-7066 or 541-245-7527	AGS or Direct	
Computer and Embedded Systems Engineering Technology	541-956-7213 or 541-245-7527	AS or Direct	Oregon Tech
Computer Science	541-956-7213 or 541-245-7527	AS or Direct	Southern Oregon University
Computer Science – Oregon Transfer	541-956-7213 or 541-245-7527	ASOT or Direct	
Criminal Justice	541-245-7965	AS or Direct	Southern Oregon University
Cybersecurity	541-956-7213 or 541-245-7527	AS or Direct	Oregon Tech *
Dental Hygiene	541-956-7750 or 541-245-7750	AGS or Direct	Oregon Tech
Diesel Technology	541-245-7809	AAS or Direct	Montana State University-Northern
Digital Cinema	541-956-7140	AS or Direct	Southern Oregon University
Early Childhood Development	541-956-7066 or 541-245-7504	AS or Direct	Southern Oregon University
Education (Elementary, Secondary)	541-956-7066 or 541- 245-7504	AS, AAOT or Direct	Southern Oregon University
Emergency Management	541-245-7965	AAS or Direct	University of Alaska/Fairbanks
Emergency Medical Services Management	541-245-7965	AAS or Direct	Oregon Tech
Emerging Media and Digital Arts	541-956-7213 or 541-245-7527	AS or Direct	Southern Oregon University
Engineering	541-956-7902 or 541-245-7902	AS or Direct	Oregon Tech (AS) and Portland State (direct)
English/Literature	541-956-7140 or 541-245-7504	AAOT, AS or Direct	
Environmental Science	541-956-7066 or 541-245-7527	AAOT or Direct	
Geology	541-956-7066 or 541-245-7527	AGS or Direct	
Health/Physical Education /Exercise Science	541-956-7504 or 541-245-7504	AS, AAOT or Direct	Southern Oregon University
Health Informatics	541-956-7213 or 541-245-7527	AS or Direct	Oregon Tech
History	541-956-7066 or 541-245-7504	AAOT or Direct	
Homeland Security and Emergency Management	541-245-7965	AAS or Direct	University of Alaska/Fairbanks
Human Services	541-245-7504	AAS, AS	Southern Oregon University
Information Technology	541-956-7213 or 541-245-7527	AS or Direct	Oregon Tech
Manufacturing/Engineering Technology	541-245-7902	AAS, AS	Oregon Tech
Mathematics	541-956-7213 or 541-245-7527	AAOT or Direct	
Nursing	541-956-7308	AGS, AAS or Direct	Oregon Health Sciences University
Outdoor Adventure Leadership	541-956-7140	AS or Direct	Southern Oregon University
Physics	541-956-7066 or 541-245-7527	AGS or Direct	
Pre-Dental Hygiene	541-956-7750 or 541-245-7750	AGS or Direct	Oregon Tech
Pre-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	
Sociology/Social Work	541-956-7066 or 541-245-7504	AAOT or Direct	
Software Engineering Technology	541-956-7213 or 541-245-7527	AS or Direct	Oregon Tech

** Pending at time of catalog print.*

Programs of Study

Programs	Award	Program length*	Pg. #
See the AAOT Graduation Guide on page 63 for additional information.	Associate of Arts Oregon Transfer	Two year transfer degree	63
See the AGS Graduation Guide on page 64 for additional information.	Associate of General Studies	Two year degree	64
See the OTM Graduation Guide on page 65 for additional information.	Oregon Transfer Module	One year degree	65
APPLIED TECHNOLOGY Pathway			
Automotive			
Automotive Specialist	Certificate	One year	68
Automotive Technology	Associate of Applied Science	Two year degree	68
Computer Science			
Computer Support Technician	Associate of Applied Science	Two year degree	68
Computer Support Technician: Computer Software Specialist	Career Pathway Certificate	Less than one year	70
Diesel Technology			
Diesel Technology	Associate of Applied Science	Two year degree	71
Diesel Specialist	Certificate	One year	72
Electronics Technology			
Electronics Technology	Associate of Applied Science	Two year degree	73
Electronics Technician	Certificate	One year	75
High Technology Studies	Certificate	One year	76
High Tech Studies: Plant Systems Technician	Career Pathway Certificate	Less than one year	77
Microcontroller	Certificate	One year	78
Renewable Energy Technician	Certificate	One year	79
Industrial Welding Technology			
Industrial Welding Technology	Associate of Applied Science	Two year degree	80
Industrial Welding Technology	Certificate	Less than one year	81
Industrial Welding Technology: GTAW Welder	Career Pathway Certificate	Less than one year	82
Industrial Welding Technology: SMAW Welder	Career Pathway Certificate	Less than one year	83
Industrial Welding Technology: Welder's Helper	Career Pathway Certificate	Less than one year	83
Industrial Welding Technology: WIRE Welder	Career Pathway Certificate	Less than one year	84
Manufacturing Technology			
Manufacturing/Engineering Technology	Associate of Applied Science	Two year degree	85
Manufacturing/Engineering Technology : CNC Technician	Certificate	Less than one year	86
Manufacturing/Engineering Technology : CNC Operator	Career Pathway Certificate	Less than one year	87
Mechatronics			
Mechatronics	Associate of Applied Science	Two year degree	88
Mechatronics Specialist	Certificate	Less than one year	89
Mechatronics: PLC Programming	Certificate	Less than one year	90
Mechatronics: Mechatronics Maintenance Technician	Career Pathway Certificate	Less than one year	91
Mechatronics: Fluid Power Specialist	Career Pathway Certificate	Less than one year	92
Mechatronics: Power Transmission	Career Pathway Certificate	Less than one year	93
Mechatronics: Production Technician	Career Pathway Certificate	Less than one year	94

Programs	Award	Program length*	Pg. #
ARTS, HUMANITIES, COMMUNICATION Pathway			
Design and Digital Media			
Digital Cinema	Associate of Science (transfer to SOU)	Two year transfer degree	95
Emerging Media and Digital Arts	Associate of Science (transfer to SOU)	Two year transfer degree	96
Design and Digital Media	Associate of Applied Science	Two year degree	98
Design and Digital Media	Certificate	One year	100
Design and Digital Media: Adobe® Applications Technician	Career Pathway Certificate	Less than one year	100
Design and Digital Media: Social Media Technician	Career Pathway Certificate	Less than one year	102
Design and Digital Media: UI-UX Technician	Career Pathway Certificate	Less than one year	101
Design and Digital Media: Video Production Technician	Career Pathway Certificate	Less than one year	102
BUSINESS Pathway			
Business Technology			
Business Technology	Associate of Applied Science	Two year degree	104
Business Technology Management and Marketing Option	Associate of Applied Science	Two year degree	104
Business Technology Accounting Option	Associate of Applied Science	Two year degree	104
Business Management	Associate of Science (transfer to Oregon Tech)	Two year transfer degree	105
Business	Associate of Science (transfer to SOU)	Two year transfer degree	106
Business	Associate of Science Oregon Transfer - Business	Two year transfer degree	108
Business Assistant	Certificate	Less than one year	109
Business Assistant: Business and Information Specialist	Career Pathway Certificate	Less than one year	110
Business Assistant: Customer Service	Career Pathway Certificate	Less than one year	111
Business Assistant: Retail Sales and Service	Career Pathway Certificate	Less than one year	111
Business Assistant: Small Business Management	Career Pathway Certificate	Less than one year	112
HEALTH PROFESSIONS, PUBLIC SAFETY Pathway			
Allied Health			
Basic Health Care	Certificate	Less than one year	114
Medical Administrative Assistant	Certificate	Less than one year	115
Medical Assistant	Certificate	Less than one year	116
Pharmacy Technician	Certificate	Less than one year	117
Sterile Processing Technician	Certificate	Less than one year	118
Medical Assistant: Phlebotomy	Career Pathway Certificate	One term	119
Computer Science			
Health Informatics	Associate of Science (transfer to Oregon Tech)	Two year transfer degree	120
Criminal Justice			
Criminal Justice	Associate of Applied Science	Two year degree	121
Criminal Justice	Associate of Science (transfer to SOU)	Two year transfer degree	122
Dental Assisting			
Dental Assisting	Certificate	One year	124

Programs	Award	Program length*	Pg. #
Emergency Serices			
Paramedicine	Associate of Applied Science	Two year degree	125
Emergency Medical Services	Certificate	Less than one year	126
Emergency Medical Services: EMT	Career Pathway Certificate	Less than one year	127
Fire Science			
Fire Science	Associate of Applied Science	Two year degree	128
Fire Science: Firefighter	Career Pathway Certificate	Less than one year	129
Health and Physical Education			
Health and Physical Education	Associate of Science (transfer to SOU)	Two year transfer degree	130
Outdoor Adventure Leadership	Associate of Science (transfer to SOU)	Two year transfer degree	132
Massage Therapy			
Massage Therapy	Certificate	One year	133
Massage Therapy: Entry Level Therapist	Career Pathway Certificate	Less than one year	135
Nursing			
Nursing	Associate of Applied Science	Two year degree	136
Practical Nursing	Certificate	Less than one year	138
SCIENCE, ENGINEERING, MATH Pathway			
Computer Science			
Computer and Embedded Systems Engineering	Associate of Science (transfer to Oregon Tech)	Two year transfer degree	140
Computer Science	Associate of Science (transfer to SOU)	Two year transfer degree	141
Computer Science	Associate of Science Oregon Transfer – Computer Science	Two year transfer degree	142
Cybersecurity **	Associate of Science (transfer to Oregon Tech)	Two year transfer degree	143
Information Technology	Associate of Science (transfer to Oregon Tech)	Two year transfer degree	145
Software Engineering Technology	Associate of Science (transfer to Oregon Tech)	Two year transfer degree	146
Engineering Transfer to Oregon Tech			
Engineering transfer to Oregon Tech – Civil	Associate of Science (transfer to Oregon Tech)	Two year degree	147
Engineering transfer to Oregon Tech - Electrical	Associate of Science (transfer to Oregon Tech)	Two year degree	148
Engineering transfer to Oregon Tech - Mechanical	Associate of Science (transfer to Oregon Tech)	Two year degree	149
Engineering transfer to Oregon Tech - Renewable Energy	Associate of Science (transfer to Oregon Tech)	Two year degree	151
Manufacturing/Engineering Technology	Associate of Science (transfer to Oregon Tech)	Two year transfer degree	152
SOCIAL AND BEHAVIORAL SCIENCE EDUCATION Pathway			
Early Childhood Education			
Early Childhood Education	Associate of Applied Science	Two year degree	154
Early Childhood Development	Associate of Science (transfer to SOU)	Two year transfer degree	155
Elementary Education	Associate of Science (transfer to SOU)	Two year transfer degree	157
Early Childhood Education	Certificate	One year	159
Early Childhood Education (Intermediate)	Career Pathway Certificate	Less than one year	160
Early Childhood Education (Basic)	Career Pathway Certificate	Less than one year	161

Programs	Award	Program length*	Pg. #
Family Support Services			
Family Support Services	Associate of Applied Science	Two year degree	162
Family Support Services	Certificate	One year	163
Family Support Services	Career Pathway Certificate	Less than one year	164
Human Services			
Human Services	Associate of Applied Science	Two year degree	165
Human Services	Associate of Science (transfer to SOU)	Two year transfer degree	166
Alcohol and Drug Counselor	Certificate	One year	168
Sustainable Community Development	Focus Award	Less than one year	169

** Estimated, excluding required pre-requisite courses. **Pending at time of catalog print.*

Degree or Certificate	Meta Major	Interests	Pg. #
Associate of General Studies	Arts, Humanities, Communication	Architecture	171
	Arts, Humanities, Communication	Art	171
	Science, Engineering, Math	Biology	172
	Science, Engineering, Math	Chemistry	172
	Science, Engineering, Math	Geology	173
	Science, Engineering, Math	Physics	174
	Health Professions, Public Safety	Pre- Dental Hygiene (transfer to Oregon Tech)	175
	Health Professions, Public Safety	Pre- Medical Imaging (transfer to Oregon Tech)	175
	Health Professions, Public Safety	Pre- Professional Medicine (Dentistry, Medicine, Optometry, Pharmacy, Veterinarian)	175
Associate of Arts Oregon Transfer	Arts, Humanities, Communication	Art	171
	Arts, Humanities, Communication	English and Literature	172
	Science, Engineering, Math	Environmental Science	173
	Health Professions, Public Safety	Health, Exercise and Physical Education	173
	Social and Behavioral Science Education	History	174
	Science, Engineering, Math	Math	174
	Social and Behavioral Science Education	Psychology	176
	Social and Behavioral Science Education	Sociology/Social Work	176
Degree or Certificate	**Meta Major**	**Apprenticeships**	
Associate of Applied Science	Applied Technology	Construction Trades, General Apprenticeship	177
Certificate	Applied Technology	Construction Trades, General Apprenticeship	178
Associate of Applied Science	Applied Technology	Electrician Apprenticeship Technologies	179
Certificate	Applied Technology	Electrician Apprenticeship Technologies	180
Certificate	Applied Technology	Electrician Apprenticeship Technologies: Limited	181
Associate of Applied Science	Applied Technology	Industrial Mechanics and Maintenance Technology Apprenticeship	182
Certificate	Applied Technology	Industrial Mechanics and Maintenance Technology Apprenticeship	183
Career Pathways Certificate	Applied Technology	Industrial Mechanics and Maintenance Technology Apprenticeship	184

Take the First Step: RCC Guided Pathways

What's the best way to get from Point A to Point B?

A straight line.

That's what Rogue Community College is offering with Guided Pathways, a new approach to higher education that not only helps students identify a career path they're passionate about, but also walks them through the process of becoming qualified.

The pathways model has improved student success in many universities and is gaining popularity in community colleges across country. This streamlined education has shown to produce more qualified students and lead to better jobs, which improves quality of life. Each college has the flexibility to build guided programs according to their needs.

Guided Pathways create a clear sequence of courses needed in order to earn a specific degree or certification. This "road map" eliminates confusion and gives students a clear plan for which classes they should take and when, in order to earn their qualifications as fast and affordably as possible. Each student's pathway begins even prior to enrollment, when they meet with an advisor to discuss program options.

In the following pages of this catalog, all degrees and certificates of study are presented in their pathways. From health care professionals to engineers to social workers, digital media specialists, computer programmers and so much more, RCC's Guided Pathways are designed to produce graduates who are well prepared to perform their jobs well—regardless of where they started.

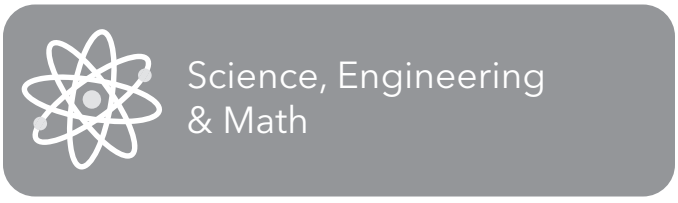
Many students drift through college without a solid plan because they're not sure what career they want to pursue, or which courses will make them qualified to do a job they want. This results in costing extra time and money, which leads to more frustration and the risk of dropping out of school. Guided Pathways changes all that.

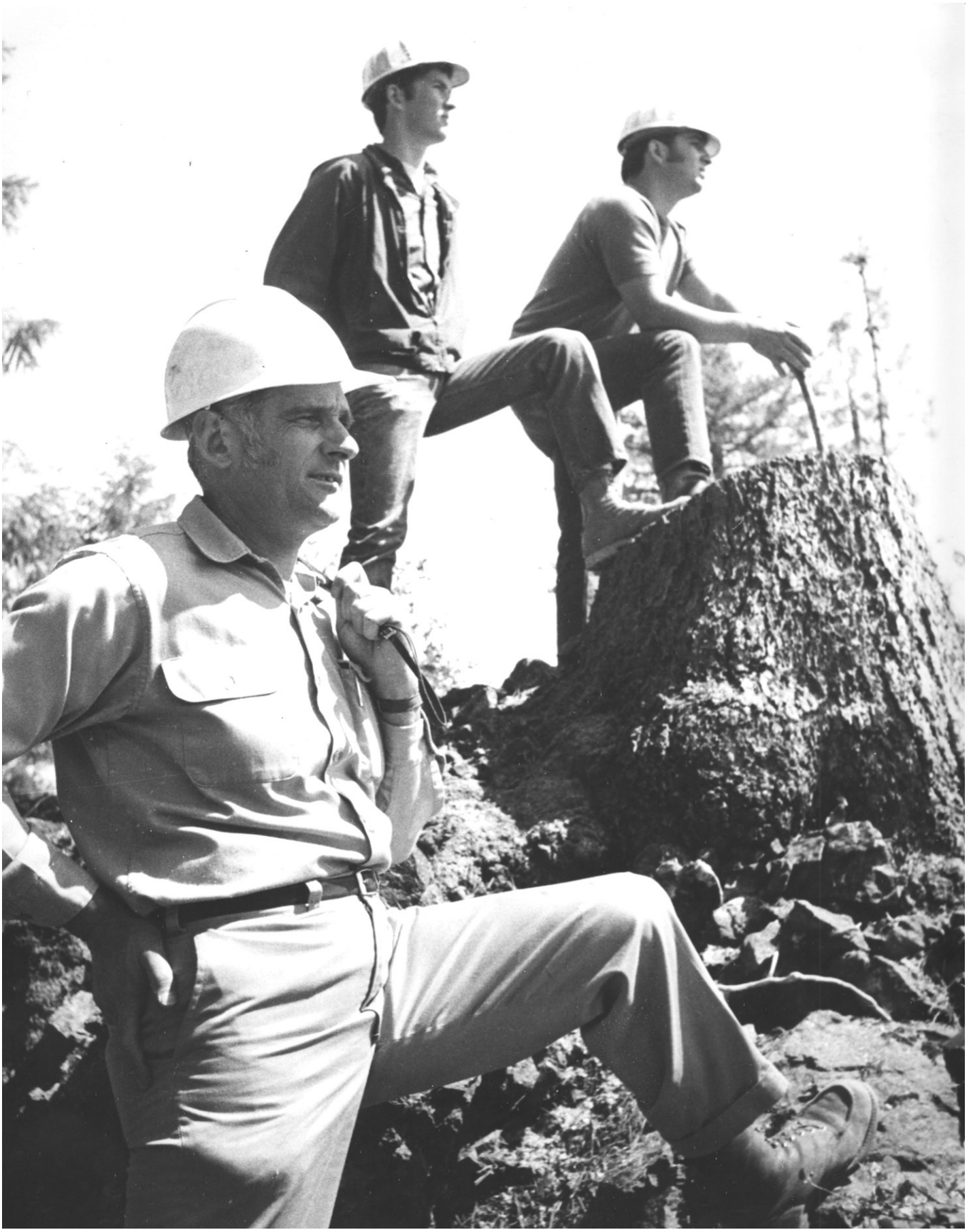
The goal is for students to be are aware of what they're getting into before they choose a degree program or sign up for their first class. RCC advisors work very closely with each student to decide which program suits their interests. Then they provide guidance every step of the way, from enrollment to graduation, making sure students are staying on track and getting all the courses and credits they need to achieve their goals, whether that's a certificate, associate's degree, or a transfer degree to a four-year university.

The pathways philosophy and the community college mission share this philosophy: no one should be kept from earning a college degree based on their background or social status. RCC advisors and staff gladly provide resources for overcoming obstacles, whether that's financial assistance, work study, tutoring, and more. RCC faculty get to know the students in the classroom. They provide the one-o-one guidance and help students need.

We encourage students to explore these pathways, and also to explore careers using the Holland Code Quiz available on the RCC Website. Then, working with advisors, choose the best pathway for success at RCC and in life.

RCC's Guided Pathways are in six areas of study:





Timber industry job training, 1970s

Associate of Arts Oregon Transfer Degree

About the Program

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

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

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 complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

Graduation Requirements

Students must complete a minimum of 90 college-level credits with a minimum grade of "C" or better, including at least one course designated as meeting cultural literacy criteria.

Foundational Skills Requirements

Course No.	Course Title	Credits
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)		
COMM111	Fundamentals of Public Speaking	4
COMM115	Intercultural Communication 1	4
COMM218	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 Function	s4
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

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
COMM100	Basic Communication	3
COMM111	Fundamentals of Public Speaking [3]	4
COMM115	Intercultural Communication [1, 3]	4
COMM201	Media and Society	4
COMM218	Interpersonal Communication [3]	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
ENG204,205,206I	ntroduction 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 Music3	
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
SPAN201,202,203	Second Year Spanish I, II, III [1]	4-4-4

Social Science Requirement

(at least four courses from the following list chosen from at least two disciplines)

ANTH110	Introduction to Cultural Anthropology [1]	4
ANTH150	Introduction to Archaeology	4
CJ100	Foundations and Ethics in Criminal Justice	4
CJ201/ SOC221	Juvenile Delinquency	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]	4
SOC225	Social Problems and Solutions [1]	4
SOC228	Environment and Society [1]	4
SOC230	Introduction to Gerontology	4
SOC235/HST259	The Chicano/Latino Historical Experience [1]	4
SOC243/CJ243	Drugs, Crime and Addiction	4
SOC244/CJ200	Introduction to Criminology	4

Science/Math/Computer Science Requirement

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

Lab Science Courses

BI101,102,103	Introduction to Biology I, II, III with lab (non-majors)	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM106	Introductory Biochemistry with lab	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

CS160	Introduction to Computer Science	4
CS161J,162J	Computer Science I, II (Java)	4-4
CS161U,162U	Computer Science I, II (C++)	4-4
CS260	Data Structures I	4
ENV111	Introduction to Environmental Science	3
MTH105	Introduction to Contemporary Mathematics [4]	4
MTH111	College Algebra [4]	4
MTH112	Elementary Functions [4]	4
MTH211,212,213	Fundamentals Elementary Math I, II, III [4]	5-5-5
MTH243	Probability and Statistics [4]	4
MTH244	Inferential Statistics [4]	4
MTH251,252,253	Calculus I, II, III [4]	5-5-5
MTH254	Vector Calculus [4]	5
MTH256	Differential Equations [4]	5
MTH261	Linear Algebra [4]	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] May be taken if not used to fulfill oral communication foundational requirement.

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

For more information, contact 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 complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

Graduation Requirements

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

General Education Requirements

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
COMM100	Basic Communication [1] or COMM111 Fundamentals of Public Speaking or COMM115 Introduction to Intercultural Communication or COMM218 Interpersonal Communication	3-4
LIB127	Introduction to Academic Research	1
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
MTH105	Introduction to Contemporary Math [2] or MTH111 College Algebra or MTH211 Fundamentals of Elementary Math or MTH243 Probability and Statistics with lab [2] or MTH251 Calculus I (Differential) with lab or higher level math	4-5
WR121	English Composition I	4
Total General Education Credits		**13-19**

Core Requirements

Course No.	Course Title	Credits
A minimum of 3 or 4 credits must be taken from each of the following categories with no more than 9 credits from any one category.		
—	Art/Humanities	3-9
—	Science/Computer Science (one lab science is required)	4-9
—	Social Science	3-9
—	Physical Education/Health	3-9
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**
MINIMUM TOTAL PROGRAM CREDITS		**90**

[1] Note: Certain Oregon universities will not accept COMM100 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.

[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.

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:

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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

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 complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

Completion Requirements

Students must complete all required courses with a grade of "C" or better to complete the Oregon Transfer Module. Certain required courses may be graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade. It is important to note that this module is neither a certificate nor a degree. Upon successful completion of coursework, students will have the Oregon Transfer Module noted on their RCC academic transcripts. In order for the Oregon Transfer Module designation to be posted, students must complete an application for graduation prior to completing the module. Applications are available at Rogue Central.

Foundational Skills Requirements

Course No.	Course Title	Credits
Writing (two courses required)		
WWR121	English Composition I	4
WR122	English Composition II or WR227 Technical Writing	4

Oral Communication (one course required)

COMM111	Fundamentals of Public Speaking [1]	4
COMM115	Intercultural Communication	4
COMM218	Interpersonal Communication	4

Mathematics (one course required)

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

TOTAL FOUNDATIONAL SKILLS CREDITS 16-17

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
COMM100	Basic Communication [1]	3
COMM111	Fundamentals of Public Speaking (if not taken to fulfill oral communication requirement)	4
COMM115	Intercultural Communication (if not taken to fulfill oral Communication requirement)	4
COMM201	Media and Society	4
COMM218	Interpersonal Communication (if not taken to fulfill oral Communication requirement)	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
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
CJ200/SOC244	Introduction to Criminology	4
CJ201/SOC221	Juvenile Delinquency	4
CJ214	Criminal Justice and Diversity	4
ECON201	Principles of Microeconomics	4
ECON202	Principles of Macroeconomics	4
GEOG110	Introduction to Cultural/Human Geography	3
GEOG120	World Regional Geography	3
HST104	World Civilizations: Prehistory - Middle Ages	4
HST105	World Civilizations: Byzantium - Present	4
HST201	U.S. History through Reconstruction	4
HST202	U.S. History: Post-Reconstruction - Present	4
PS201,202,203	U.S. Government I, II, III	3-3-3
PSY201,202	General Psychology I, II	4-4
PSY215	Life Span Human Development	4
PSY219	Introduction Abnormal Psychology	4
SOC204,205	Introduction to Sociology, American Society	4-4
SOC213	Race and Ethnicity in the U.S.	4
SOC218	Sociology of Gender	3
SOC225	Social Problems and Solutions	4
SOC228	Environment and Society	4
SOC230	Introduction to Gerontology	4
SOC235/HST259	The Chicano/Latino Historical Experience	4
SOC243/CJ243	Drugs, Crime and Addiction	4

Science/Math/Computer Science [3]

(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 with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM106	Introductory Biochemistry with lab	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
CS161J,162J	Computer Science I, II (Java)	4-4
CS161U,162U	Computer Science I, II (C++)	4-4
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 30-39

Electives

Complete a sufficient number of transfer-level courses (numbered 100 and above) to meet the Oregon Transfer Module requirement of at least 45 total credits. Elective credits must be in the humanities, social science or science/math/computer science areas, and be at least three credits each. The second year of a foreign language may be used toward elective credits but not first year courses.

TOTAL OREGON TRANSFER MODULE CREDITS 46-56

[1] COMM100 may not be accepted as fulfilling the speech requirement at an Oregon University. See an Advisor for more information.

[2] 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.

[3] 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

Coates Hall construction, 1980s

APPLIED TECHNOLOGY Pathway

AUTOMOTIVE

Automotive Specialist
Certificate of Completion

About the Program

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

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for 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 and function collaboratively as a member of a team to achieve specified and measurable results.

Demonstrate comprehensive knowledge of employer expectations and ethical work practice.

Strategize professional growth in automotive industry.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-14**

General Education Requirements

Course No.	Course Title	Credits
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
HE112	Emergency First Aid	1
BT113	Business English 1 or WR115 Introduction to Expository Writing	3-4
Total General Education Requirements		**11-12**

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		**54-55**

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

Demonstrate comprehensive knowledge of employer expectations and ethical work practice.

Strategize professional growth in automotive industry.

Entry Requirements

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

Advanced Standing

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

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-14**

General Education Requirements

Course No.	Course Title	Credits
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
BT113	Business English I or WR115 Introduction to Expository Writing	3-4
COMM100	Basic Communication	3
HE112	Emergency First Aid or HE261 CPR/Basic Life Support Provider	1
LIB101	Introduction to Information Literacy or LIB127 Introduction to Academic Research	1
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
Total General Education Credits		**15-16**

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 [1]	4
AM270	Air Conditioning for Automotive Technicians	5
		9
Total First Year Credits		**48**

Second Year Technical Requirements [2]

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	1
AM252	Advanced Diagnostic Lab	4
AM280	Cooperative Work Experience/Automotive or AM290 Automotive Repair Lab II [2]	4
		9
Total Second Year Credits		**36**
TOTAL PROGRAM CREDITS		**99-100**

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

[2] 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

COMPUTER SCIENCE

Computer Support Technician
Associate of Applied Science Degree

About the Program

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

Program Learning Outcomes:

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

Makes recommendations regarding appropriate equipment acquisitions, maintenance, upgrade and life-cycling in the workplace.

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

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

Uses standard business productivity software to support electronic projects.

Explains basic troubleshooting processes and procedures from initial diagnosis to final documentation and reporting.

Develops technical documentation to support organizational needs.

Explains and demonstrate how to interact and communicate effectively with people of different technical backgrounds and professional positions.

Works effectively as an individual under guidance and as a member of a team.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

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

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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or designated placement score	0-4
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits		**0-9**

General Education Requirements

Course No.	Course Title	Credits
COMM225	Small Group Communication and Problem Solving or COMM111 Fundamentals of Public Speaking or COMM218 Interpersonal Communication (choose two)	8
HE250	Personal Health or HE112 Emergency First Aid or HE252 First Aid/CPR or HE261 CPR/Basic Life Support Provider or HPE295 Health and Fitness for Life	1-3
LIB127	Introduction to Academic Research	1
MTH96	Applied Algebra II or MTH65 Fundamentals of Algebra II or higher level math	4
PSY101	Psychology of Human Relations	3
WR121	English Composition I	4
WR227	Technical Writing or WR122 English Composition II	4
Total General Education Credits		**25-27**

Required Core Courses

Course No.	Course Title	Credits
BA101	Introduction to Business	4
BT178	Customer Service	3
CIS125DB	Data Base Management Systems	3
CIS125PPT	Effective Presentations	2
CIS125SS	Spreadsheet Applications	4
CIS125V	Visio	1
CIS125WW	Word Processing Applications	3
CS133/CS160/CS161U	Any CS133/CS160/CS161U programming language course	4
CIS140	Introduction to Operating Systems	4
CIS179	Introduction to Networks	4
CIS225	Computer End-user Support I	4
CIS227	PC Hardware Fundamentals and Repair	3
CIS240	Advanced Operating Systems	4
CIS240LX	Advanced Operating Systems-Linux	4
CIS279	Network Operating Systems I (Infrastructure)	4
CIS280	Cooperative Work Experience/Computer Science	3
CIS284	Network Security Fundamentals	4
Approved program electives		**9-12**
Total Required Core Credits		**67-70**
TOTAL PROGRAM CREDITS		**92-97**

Approved Program Electives (9-12 credits required)

Course No.	Course Title	Credits
BA109	Ready, Set, Work: Techniques for Landing a Job	2
CIS280	Cooperative Work Experience	variable
CS133C#	Programming Fundamentals Using C#	4
CS160	Introduction to Computer Science	4
CS161J	Computer Science I (Java)	4
CS162J	Computer Science II (Java)	4
CS275	Database Development I	4
EET___	Any electronics course(s)	variable
HCI255	Introduction to Health Care Informatics	3
MTH___	Any math course(s) MTH105 or higher	variable
SOC237	Communication, Relationships and Technology	4

For more information contact the Computer Science Department:

Grants Pass 541-956-7213
Medford 541-245-7527
Toll free in Oregon . . . . . 800-411-6508, Ext. 7213 or Ext. 7527
email . . . . . cs@roguecc.edu
Web address . . . . . .www.roguecc.edu/computerscience
TTY . . . . . Oregon Telecom Relay Service, 711

Computer Support Technician: Computer Software Specialist

Career Pathway Certificate

About the Program

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

Program Learning Outcome

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

Computer Software Specialist Career Pathway Certificate is:

Uses standard business productivity software to support electronic projects.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

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

Completion Requirements

Students completing the required credits in this program with a grade of "C" or better will receive a Career Pathway 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH65	Fundamentals of Algebra II or BT160 Business Math or designated placement 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 score	0-8
Total Prerequisite Credits		**0-14**

Required Courses

Course No.	Course Title	Credit
CIS125DB	Database Management Systems (Access)	3
CIS125PPT	Effective Presentations (PowerPoint)	2
CIS125SS	Spreadsheet Applications (Excel)	4
CIS125WW	Word Processing Applications (Word)	3
CIS140	Introduction to Operating Systems	4
TOTAL PROGRAM CREDITS		**16**

For more information contact the Computer Science Department:

Grants Pass or Medford. 541-956-7213
Medford 541-245-7527
Toll free in Oregon . . . . . 800-411-6508, Ext. 7213 or Ext. 7527
email. . . . . cs@roguecc.edu
Web address . . . . . .www.roguecc.edu/computerscience
TTY . . . . . Oregon Telecom Relay Service, 711

DIESEL TECHNOLOGY

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 complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-12**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
BT113	Business English I or WR115 Introduction to Expository Writing or higher level composition	4 3-4
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2

DS111	Basic Electricity for Diesel Technicians I	6
DS120	Diesel Practices	5
LIB101	Introduction to Information Literacy or	
	LIB127 Introduction to Academic Research	1
		15-18

Second Term

BT114	Business English II or	
	WR121 English Composition or higher level composition	4
DS131	Diesel Engine Dynamics and Diagnosis	4
DS134	Basic Electricity for Diesel Technicians II	3
DS141	Heavy Equipment Power Trains	4
		15

Third Term

DS113	Diesel Engine Overhaul	6
DS151	Heavy Equipment Brakes	5
MTH63	Applied Algebra I or	
	MTH60 Fundamentals of Algebra I or higher level math [2]	4
		15

Fourth Term (Summer)

BT101	Human Relations in Organizations or	
	PSY101 Psychology of Human Relations [3]	3
DS270	Air Conditioning for Diesel Technicians	5
DS275	Preventative Maintenance Inspection	5
		13

Total First Year Credits **58-61**

Second Year Required Courses

Course No.	Course Title	Credits
Fifth Term		
DS160	Heavy Equipment Suspension and Steering Systems	5
WLD111D	Technology of Industrial Welding I (Diesel)	6
		11
Sixth Term		
DS233	Computerized Vehicle Management Systems	4
——	Approved program elective(s)	4-10
		8-14
Seventh Term		
DS232	Heavy Equipment Fuel Systems	3
DS260	Hydraulic Systems	3
DS280	Cooperative Work Experience/Diesel [4] or	
	DS290 Diesel Repair Lab	3
HE112	Emergency First Aid or	
	HE261 CPR/Basic Life Support Provider	1
		10
Total Second Year Credits		**29-35**
TOTAL PROGRAM CREDITS		**90-96**

Approved Program Electives (4-10 credits required)

Students must complete a sufficient number of electives from the list below in order to complete a minimum total of 90 program credits.

Course No.	Course Title	Credits
AM190	Automotive Repair Lab I	4
BA109	Ready, Set, Work: Techniques for Landing a Job	2
DS112	Gasoline Engines Rebuild	5
DS199	Selected Topic Workshop	1-6
DS280	Cooperative Work Experience/Diesel	variable
DS290	Diesel Repair Lab	3-6
EET101	Introduction to Electronics	3
EET112	Introduction to Mechatronics	5
GS104	Physical Science with lab (recommended for transfer)	4
MEC103	Industrial Safety	1
MEC124	Hoisting and Rigging	3
MFG121	Manufacturing Processes I	4
MTH65	Fundamentals of Algebra II or higher level math	4-5
WLD112	Technology of Industrial Welding II	6
WR122	English Composition II	4
WR227	Technical Writing	4
	Approved humanities elective (see catalog for approved list of electives)	3-4
	Approved social science elective (see catalog for approved list of electives)	3-4

[1] Required for graduation.

[2] MTH105 or higher recommended for transfer.

[3] PSY101 recommended for transfer.

[4] 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

Diesel Specialist
Certificate of Completion

About the Program

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

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

Program Learning Outcomes

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

Work within OSHA, RCC, and current industry safety guidelines and standards to promote a safe working environment.

Read wiring diagrams and schematics, measure voltage, amperage and resistance with common industry equipment, evaluate and troubleshoot wiring, charging and starting problems.

Evaluate, troubleshoot and repair diesel engines, heavy-duty brakes, suspension and steering, power train assemblies, air conditioning and basic hydraulics.

Evaluate and troubleshoot computerized systems on the chassis, engine, brakes and suspension, evaluate fault codes, and make repairs as needed.

Work in a cohesive group on a collective project from beginning to end, producing high quality work while adhering to safety and lab procedures.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-12**

Technical Requirements

Course No.	Course Title	Credits
First Term		
BT113	Business English I or WR115 Introduction to Expository Writing or higher level composition	3-4
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
DS111	Basic Electricity for Diesel Technicians I	6
DS120	Diesel Practices	5
		14-17
Second Term		
DS131	Diesel Engine Dynamics and Diagnosis	4
DS134	Basic Electricity for Diesel Technicians II	3
DS141	Heavy Equipment Power Trains	4
____	Approved program elective(s)	4
		15
Third Term		
DS113	Diesel Engine Overhaul	6
DS151	Heavy Equipment Brakes	5
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
		15
Fourth Term (Summer)		
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
DS232	Heavy Equipment Fuel Systems	3
DS270	Air Conditioning for Diesel Technicians	5
____	Approved program elective(s)	3-6
		14-17
TOTAL PROGRAM CREDITS		**61-64**

Approved Program Electives

(Students must complete a sufficient number of electives from the list below in order to complete a total of 61 program credits.)

Course No.	Course Title	Credits
AM190	Automotive Repair Lab I	4
BA109	Ready, Set, Work: Techniques for Landing a Job	2
DS112	Gasoline Engines Rebuild	5
DS199	Selected Topic Workshop	1-6
DS280	Cooperative Work Experience/Diesel	variable
DS290	Diesel Repair Lab II	3-6
EET101	Introduction to Electronics	3
EET112	Introduction to Mechatronics	5
GS104	Physical Science with lab	4
MEC103	Industrial Safety	1
MEC124	Hoisting and Rigging	3
MFG121	Manufacturing Processes I	4

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

ELECTRONICS TECHNOLOGY

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.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MTH20	Pre-algebraor designated placement 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 score	0-8
Total Prerequisite Credits		**0-14**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
EET125	Electronics Fundamentals I (DC)	6
EET129	Embedded Systems – Arduino	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
		13
Second Term		
EET126	Electronics Fundamentals II (AC)	6
EET130	Digital Fundamentals I	6
WR115	Introduction to Expository Writing or COMM100 Basic Communication or COMM111 Fundamentals of Public Speaking or COMM218 Interpersonal Communication [2]	3-4
		15-16
Third Term		
CIS140	Introduction to Operating Systems	4
EET131	Digital Fundamentals II	5
EET140	Solid State Fundamentals	6
		15
Fourth Term		
HE112	Emergency First Aid	1
LIB127	Introduction to Academic Research	1
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
WR121	English Composition	4
		9
Total First Year Credits		**52-53**

Second Year Required Courses

Course No.	Course Title	Credits
Fifth Term		
CIS227	PC Hardware Fundamentals and Repair	3
EET215	Operational Amplifiers and Linear Integrated Circuits	5
EET220	Solid State Devices	5
		13
Sixth Term		
EET225	Electronics Troubleshooting	3
EET230	Radio Frequency Communications Fundamentals	5
EET240	Microcontrollers I	5
____	Approved program elective(s)	3-5
		16-18
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
		15
Total Second Year Credits		**44-46**
TOTAL PROGRAM CREDITS		**96-99**

Approved Program Electives

Course No.	Course Title	Credits
BA101	Introduction to Business	4
BT121	Digital Marketing and e-Commerce	4
CIS___	Any computer applications course, CIS125 or above	3-4
COMM111	Fundamentals of Public Speaking (if not taken as part of core)	4
EET101	Introduction to Electronics	3
EET104	Fundamentals of Manufacturing Electronics	4
EET106	Electronics Assembly	3
EET112	Introduction to Mechatronics (if not taken as part of core)	3
EET113	Exploration of Alternative Energies	3
EET118	Introduction to Renewable Energy Systems	5
EET127	Exploring Raspberry Pi	3
EET132	Digital Fundamentals III	5
EET180	Cooperative Work Experience / Electronics	Var
EET199	Selected Topics in Technology	1-5
GS104	Physical Science with lab	4
MEC150	PLC Motor Control	3
MET101	Mechanical Drafting	3
MET121	CAD I: Mechanical (SolidWorks)	3
MET122	CAD II: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy	3
MFG101	Introduction to Manufacturing	3
MFG121	Manufacturing Processes I	4
MFG220	Research and Development Prototyping	4
MFG230	Statistics and Quality Control	3
MFG241	CNC Programming – Mill	4
MFG242	CAM I: Mastercam	4
MFG243	CAM II: Mastercam	4
MFG244	CNC Programming – Lathe	3
MTH60R	Fundamentals of Algebra I Recitation	1
MTH65	Fundamentals of Algebra II or higher level math	4-5
MTH65R	Fundamentals of Algebra II Recitation	1
MTH111R	College Algebra Recitation	1
MTH112R	Elementary Functions Recitation	1
WLD101	Welding Fundamentals	3
WR122	English Composition II	4
WR227	Technical Writing	4

[1] Required for graduation.

[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

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.

Program Learning Outcomes

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

Identify and solve real-world problems through the application of electronics theory and concepts.

Calibrate, test, and repair analog and digital circuitry using industry standard test equipment.

Organize, interpret, and use technical information and documentation.

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

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

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

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

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-14**

Required Courses

Course No.	Course Title	Credits
First Term		
EET129	Introduction to Embedded Systems	3
EET125	Electronics Fundamentals I (DC)	6
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
		13
Second Term		
EET126	Electronics Fundamentals II (AC)	6
EET130	Digital Fundamentals I	6
		12
Third Term		
EET131	Digital Fundamentals II	5
HE112	Emergency First Aid	1
WR115	Introduction to Expository Writing or WR121 English Composition I	3-4
——	Approved program elective(s)	2-3
		11-13
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		**48-52**

Approved Program Electives

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

Course No.	Course Title	Credits
BT121	Digital Marketing and e-Commerce	4
CIS	Any computer applications course, CIS125 or above	3-4
EET101	Introduction to Electronics	3
EET104	Introduction to Manufacturing Electronics	4
EET106	Electronic Assembly	3
EET112	Introduction to Mechatronics	3
EET113	Exploration of Alternative Energies	3
EET118	Introduction to Renewable Energy Systems	5
EET127	Exploring the Raspberry Pi	3
EET132	Digital Fundamentals III	5
EET180	Cooperative Work Experience/Electronics	4
EET199	Selected Topics in Technology	1-6
EET215	Operational Amplifiers and Linear Integrated Circuits	5
EET220	Solid State Devices	5
EET225	Electronics Troubleshooting	3
EET230	Radio Frequency Communications Fundamentals	5
EET240	Microcontrollers I	5
GS104	Physical Science with lab	4
MET101	Mechanical Drafting	3
MET121	CAD I: Mechanical (Solid Works)	3
MET122	CAD II: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy	3
MFG101	Introduction to Manufacturing	3
MFG121	Manufacturing Processes I	4

MFG230	Statistics and Quality Control	3
MTH65	Fundamentals of Algebra II or higher level math	4
WLD101	Welding Fundamentals	3
WR121	English Composition I (if not taken as part of core)	4
WR227	Technical Writing	4

[1] Required for graduation.

For more information contact the Electronics Technology Department:

Grants Pass or Medford 541-245-7809
Toll free in Oregon ..... 800-411-6508, Ext. 7809
email ..... electronics@roguecc.edu
Web address ..... www.roguecc.edu/electronics
TTY ..... Oregon Telecom Relay Service, 711

High Technology Studies
Certificate of Completion

About the Program

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

Program Learning Outcomes

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

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-14**

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
AM120	Auto Maintenance and Trades Practices with lab	6
CIS	Any computer applications course, CIS/CS125 or above (CIS125ss strongly recommended)	variable
DDM191	Advanced Animation I	3
DDM226	Advanced 3D Graphics Design (Maya)	3
DS111	Basic Electricity for Diesel Technicians I with lab	6
DS120	Diesel Trades Practices with lab	5
DS260	Hydraulic Systems for Heavy Equipment	3
EET101	Introduction to Electronics	3
EET104	Fundamentals of Manufacturing Electronics	4
EET105	Digital Concepts for Manufacturing	4
EET106	Electronic Assembly	3
EET112	Introduction to Mechatronics	3
EET113	Exploration of Alternative Energies	3
EET118	Introduction to Renewable Energy Systems	5
EET120	Renewable Energy Systems (RES) Site Analysis and Design	4
EET121	North American Board of Certified Energy Practitioners (NABCEP) Entry-level Preparation	2
EET125	Electronics Fundamentals I (DC)	6
EET126	Electronics Fundamentals II (AC)	6
EET127	Exploring the Raspberry Pi	3
EET129	Introduction to Embedded Systems	3
EET130	Digital Fundamentals I	6
EET131	Digital Fundamentals II	5
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.

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.

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.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-4
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-14**

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	3
MFG121	Manufacturing Processes I	4
WLD111	Technology of Industrial Welding I	6
		13
Third Term		
MEC130	Hydraulics I	3
MFG122	Manufacturing Processes II	4
WLD250C	Selected Topics: SMAW	2
WR115	Introduction to Expository Writing [2]	3
		12
TOTAL PROGRAM CREDITS		**41**

[1] Required for graduation.

[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

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.

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.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Students are also required to complete any prerequisites listed.

Advanced Standing

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

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-14**

Required Courses

Course No.	Course Title	Credits
First Term		
EET101	Introduction to Electronics	3
EET129	Introduction to Embedded Systems	3
MTH63	Applied Technical Math/Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4-5
WR115	Introduction to Expository Writing or higher level composition	3-4
		13-15
Second Term		
EET125	Electronics Fundamentals I	6
HE112	Emergency First Aid or approved health elective (see catalog for approved list of electives)	1-3
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
___	Approved program elective(s) [2]	0-3
		10-15
Third Term		
CIS227	PC Hardware Fundamentals and Repair	3
EET127	Exploring the Raspberry Pi	3
EET130	Digital Fundamentals I	6
		12
Fourth Term		
CIS140	Introduction to Operating Systems	4
EET131	Digital Fundamentals II	5
EET180	Cooperative Work Experience/Electronics or	
____	Approved program elective(s) [2]	3-5
		12-14
TOTAL PROGRAM CREDITS		**49-56**

Approved Program Electives

(one or more courses totaling a maximum of 4-8 credits required)

Course No.	Course Title	Credits
BT121	Digital Marketing and e-Commerce	3
	Any computer applications course, CIS125 or above	1-4
EET104	Introduction to Manufacturing Electronics	4
EET106	Electronic Assembly	3
EET112	Introduction to Mechatronics	3
EET113	Exploration of Alternative Energies	3
EET118	Introduction to Renewable Energy Systems	5
EET132	Digital Fundamentals III	5
EET199	Selected Topics in Technology	1-5
EET240	Microcontrollers I	5
GS104	Physical Science with lab	4
MET101	Mechanical Drafting	3
MET121	CAD I: Mechanical (SolidWorks)	3
MET122	CAD II: Mechanical (SolidWorks)	3

MET160	Materials and Metallurgy	3
MFG101	Introduction to Manufacturing	3
MFG121	Manufacturing Processes I	4
MFG210	AC/DC Electrical Systems for Manufacturing	3
MFG230	Statistics and Quality Control	3
MTH65	Fundamentals of Algebra II or higher level math (if not taken as a required course)	4
WR121	English Composition I	4
WR122	English Composition II	4
WR227	Technical Writing	4

[1] Required for graduation.

[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

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.

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.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-14**

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	3
WR115	Introduction to Expository Writing or WR121 English Composition I	3-4
		11-12
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		**49-53**

Approved Program Electives

(3-6 credits required)

Course No.	Course Title	Credits
CIS125	Any computer applications course, CIS125 or above	variable
EET104	Fundamentals of Manufacturing Electronics	4
EET127	Exploring the Raspberry Pi	3
EET131	Digital Fundamentals II	5
EET140	Solid State Fundamentals	6
EET180	Cooperative Work Experience/Electronics	1-5
GS104	Physical Science with lab	4

[1] Required for graduation.

For more information contact the Electronics Technology Department:

Grants Pass or Medford. 541-245-7809
Toll free in Oregon. . . . . 800-411-6508, Ext. 7809
E-mail . . . . . electronics@roguecc.edu
Web address . . . . . www.roguecc.edu/Electronics
TTY . . . . . Oregon Telecom Relay Service, 711

INDUSTRIAL WELDING TECHNOLOGY

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:

Demonstrate 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 and apply the professional standards of the industry.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

Credits earned in the successful completion of Career Pathway 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
BBT113	Business English I or	
	WR115 Introduction to Expository Writing or higher level composition [1]	3-4
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MEC102	Mechanical Fabrication	3
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**6-21**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
HE112	Emergency First Aid	1
MET101	Mechanical Drafting	3
MTH63	Applied Algebra I or	
	MTH60 Fundamentals of Algebra I or higher level math	4
WLD111	Technology of Industrial Welding I	6
		14
Second Term		
LIB127	Introduction to Academic Research or	
	LIB101 Introduction to Information Literacy	1
WLD104	Blueprint Reading – Mechanical	3
WLD112	Technology of Industrial Welding II	6
WLD121	Fabrication and Repair Practices I	5
		15
Third Term		
BT101	Human Relations in Organizations or	
	PSY101 Psychology of Human Relations	3
BT114	Business English II or	
	WR121 English Composition I or higher level composition 2	4
WLD113	Technology of Industrial Welding III	6
WLD122	Fabrication and Repair Practices II	5
		18
Total First Year Credits		**47**

Second Year Required Courses

Course No.	Course Title	Credits
Fourth Term		
MFG121	Manufacturing Processes I	4
WLD211	Technology of Industrial Welding IV	6
WLD220	Machine Tool Maintenance and Repair	3
WLD221	Welding Codes, Procedures and Inspections	3
		16

Fifth Term

MEC103	Industrial Safety	1
MEC114	Safety for Industry	3
WLD212	Technology of Industrial Welding V	6
WLD225	Industrial Metallurgy or	
	MET160 Materials and Metallurgy	3
		13

Sixth Term

WLD213	Technology of Industrial Welding VI	6
WLD280	Cooperative Work Experience/Welding or	
	WLD250F Capstone	3
——	Approved program elective	6-10
		15-19

Total Second Year Credits **44-48**

TOTAL PROGRAM CREDITS **91-95**

Approved Program Electives

(minimum of 6-10 credits required)

Course No.	Course Title	Credits
BA109	Ready, Set, Work: Techniques for Landing a Job	2
DS260	Hydraulic Systems for Heavy Equipment with lab	3
EET101	Introduction to Electronics	3
MEC116	Quality Practices and Measurements	3
MEC124	Hoisting and Rigging I	3
MEC125	Pneumatics I	3
MEC130	Hydraulics I	3
MEC149	Electric Motor Control	4
MET121	Computer Aided Drafting I: Mechanical (SolidWorks)	3
MET122	Computer Aided Drafting II: Mechanical (SolidWorks)	3
MET123	Computer Aided Drafting III: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy	3
MET165	Materials Engineering and Metallurgy	3
MFG122	Manufacturing Processes II	4
MFG123	Manufacturing Processes III	4
MFG211	Manufacturing Power and Control Electronics	4
MFG291	Laser Cutting and Engraving Fundamentals	2
WLD111D	Technology of Industrial Welding for Diesel	6
WLD111M	Technology of Industrial Welding for Manufacturing	6
WLD123	Aluminum Boat Welding I	6
WLD124	Aluminum Boat Welding II	6
WLD125	Aluminum Boat Welding III	6
WLD160	American Welding Society (AWS) Certification Seminar: Plate	1
WLD250A	Selected Topics in Welding: FCAW	2-6
WLD250B	Selected Topics in Welding: GTAW	2-6
WLD250C	Selected Topics in Welding: SMAW	2-6
WLD250D	Selected Topics in Welding: GMAW	2-6
WLD250F	Selected Topics in Welding: Capstone Project	2-6
WLD250P	Selected Topics in Welding: CNC Plasma Cutting	3
WLD260	American Welding Society (AWS) Certification Seminar: Pipe	1

[1] Required for graduation.

[2] 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.

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:

Demonstrate a 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.

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 and apply the professional standards of the industry.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over three years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. College Now credit will be accepted in accordance with current agreement. Verified 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 Pathway certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
BT113	Business English I or	
	WR115 Introduction to Expository Writing or higher level composition	3-4
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MEC102	Mechanical Fabrication	3
MTH63	Applied Algebra I or	
	MTH60 Fundamentals of Algebra I or higher level math	4
Total Prerequisite Credits		**10-13**

Required Courses

Course No.	Course Title	Credits
First Term		
HE112	Emergency First Aid	1
MEC114	Safety for Industry	3
MET101	Mechanical Drafting	3
WLD111	Technology of Industrial Welding I	6
		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	3-4
		14-15
TOTAL PROGRAM CREDITS		**42-43**

Approved Program Electives

(3-4 credits required)

Course No.	Course Title	Credits
BA109	Ready, Set, Work: Techniques for Landing a Job	2
EET101	Introduction to Electronics	3
GS104	Physical Science with lab	4
MEC103	Industrial Safety	1
MEC116	Quality Practices and Measurements	3
MET121	Computer Aided Drafting I: Mechanical (SolidWorks)	3
MET122	Computer Aided Drafting II: Mechanical (SolidWorks)	3
MET123	Computer Aided Drafting III: Mechanical (SolidWorks)	3
MET160	Materials and Metallurgy	3
MFG121	Manufacturing Processes I	4
MFG122	Manufacturing Processes II	4
MFG123	Manufacturing Processes III	4
WLD160	American Welding Society (AWS) Certification Seminar: Plate	1
WLD250A	Selected Topics in Welding: FCAW	2-4
WLD250B	Selected Topics in Welding: GTAW	2-4
WLD250C	Selected Topics in Welding: SMAW	2
WLD250D	Selected Topics in Welding: GMAW	2-4
WLD250E	Selected Topics in Welding: Metallurgy	2
WLD250F	Selected Topics in Welding: Capstone Projec	t2-4
WLD260	American Welding Society (AWS) Certification Seminar: Pipe	1

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: GTAW Welder

Career Pathway Certificate

About the Program

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

Program Learning Outcomes

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

Demonstrate a 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.

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

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 and apply the professional standards of the industry.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

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

Completion Requirements

Students 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.

Prerequisites

Course No.	Course Title	Credits
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-12**

Required Courses

Course No.	Course Title	Credits
MEC114	Safety for Industry	3
WLD111	Technology of Industrial Welding I	6

WLD113	Technology of Industrial Welding III	6
WLD212	Technology of Industrial Welding V [1]	6
WLD250B	Selected Topics in GTAW	4-6
TOTAL PROGRAM CREDITS		**25-27**

[1] Documentation may be required to register for WLD212 without course pre-requisites. See Welding Advisor for assistance as needed.

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: SMAW Welder
Career Pathway Certificate

About the Program

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

Program Learning Outcomes

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

Demonstrate a 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.

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 and apply the professional standards of the industry.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

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

Completion Requirements

Students 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.

Prerequisites

Course No.	Course Title	Credits
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-12**

Required Courses

Course No.	Course Title	Credits
WLD111	Technology of Industrial Welding I	6
WLD112	Technology of Industrial Welding II	6
WLD113	Technology of Industrial Welding III	6
WLD250C	Selected Topics in SMAW	2-4
____	Approved program electives	2-6
TOTAL PROGRAM CREDITS		**22-28**

Approved program electives

MEC130	Hydraulics I	3
WLD123	Aluminum Boat Welding I	6
WLD250A	Selected Topics FCAW	2-6
WLD250B	Selected Topics GTAW	2-6
WLD250D	Selected Topics FCAW	2-6
WLD250F	Capstone Project	2-6

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 Pathway Certificate

About the Program

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

Program Learning Outcomes

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

Demonstrate a 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.

Demonstrate and apply the professional standards of the industry.

Entry Requirements

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

within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

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

Completion Requirements

Students 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.

Prerequisites

Course No.	Course Title	Credits
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-12**

Required Courses

Course No.	Course Title	Credits
MEC102	Mechanical Fabrication	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		**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

Industrial Welding Technology: Wire Welder

Career Pathway Certificate

About the Program

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

Program Learning Outcomes

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

Demonstrate a 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.

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

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 and apply the professional standards of the industry.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

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

Completion Requirements

Students 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.

Prerequisites

Course No.	Course Title	Credits
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-12**

Required Courses

Course No.	Course Title	Credits
MEC102	Mechanical Fabrication	3
WLD111	Technology of Industrial Welding	6
WLD113	Technology of Industrial Welding III	6
WLD211	Technology of Industrial Welding IV	6
WLD250A	Selected Topics in FCAW or WLD250 D GMAW	2-6
TOTAL PROGRAM CREDITS		**23-27**

For more information contact the Industrial Welding Department:

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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:

Set up,, operate, and program manual 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.

Operate and program CNC mills and lathes to print specifications

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with the Manufacturing/Engineering Technology Department chair's recommendation. In order to ensure that coursework is current, program courses over four years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. Each College Now credit student must meet with the program coordinator to determine placement.

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

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MEC102	Mechanical Fabrication	3
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**3-17**

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, or LIB101 Introduction to Information Literacy	1
MET122	Computer Aided Drafting II: Mechanical (SolidWorks)	3
PSY101	Psychology of Human Relations or BT101 Human Relations in Organizations	3
MFG123	Manufacturing Processes III	4
MFG241	CNC Programming – Mill	4
		15
Total First Year Credits		**52-54**

Second Year Required Courses

Course No.	Course Title	Credits
Fourth Term		
EET101	Introduction to Electronics	3
MFG230	Statistics and Quality Control	3
MFG242	CAM I: Mastercam	4
WLD101	Welding Fundamentals I	3
		13
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	1-3
		16-18
Sixth Term		
HE112	Emergency First Aid	1
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	1-4
		12-15
Total Second Year Credits		**41-46**
TOTAL PROGRAM CREDITS		**93-100**

Approved Program Electives

(minimum 2-7 credits required)

Course No.	Course Title	Credits
BA109	Ready, Set, Work: Techniques for Landing a Job	2
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM106	Introductory Biochemistry with lab	4
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CIS___	Any CIS applications course (CIS125SS highly recommended)	variable
CIS140	Introduction to Operating Systems	4
CIS179	Introduction to Networks	4
CIS240	Advanced Operating Systems	4
CS161J	Computer Science I (Java)	4
CS161U	Computer Science I (C++)	4
CS162J	Computer Science II (Java)	4
CS162U	Computer Science II (C++)	4
EET104	Fundamentals of Manufacturing Electronics	4
EET106	Electronic Assembly	3
EET129	Introduction to Embedded Systems	3
EET225	Electronics Troubleshooting	3
ENGR101	Engineering Orientation I: Careers, Skills and Computer Tools	2
ENGR102	Engineering Orientation II: Careers, Skills and Computer Tools	2
ENGR103	Engineering Orientation III: Careers, Skills and Computer Tools	2
ENGR201	Electrical Fundamentals with lab	3
ENGR202	Electrical Fundamentals II with Lab	3
ENGR211	Statics	3
ENGR212	Dynamics	3
ENGR213	Strength of Materials	3
GS104	Physical Science with lab or approved program elective	4
MEC103	Industrial Safety (Highly Recommended)	1
MEC114	Safety for Industry	3
MEC116	Quality Practices and Measurement	3
MEC118	Manufacturing Processes and Production	3
MEC120	Maintenance Awareness	4
MEC130	Hydraulics I	3
MEC140	Green Production	2
MEC149	Electric Motor Control	4
MEC240	Robotics I	3
MET112,113	Computer Aided Drafting II, III: Mechanical (Autodesk Inventor)	3-3
MET123	Computer Aided Drafting III: Mechanical (SolidWorks)	3
MFG199	Selected Topics in Manufacturing	variable
MFG210	AC/DC Electrical Systems for Manufacturing	3
MFG215	Electrical Control Systems and Sensors for Manufacturing	3
MFG244	CNC Programming – Lathe	3
MFG280	Cooperative Work Experience/Manufacturing	variable
MFG280S	CWE/Manufacturing Seminar	1
MFG291	Laser Cutting and Engraving Fundamentals	2
MTH65	Fundamentals of Algebra II [2] or higher level math courses	variable
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5
WLD102	Welding Fundamentals II (if not taken core requirement)	3
WLD111,112,113	Technology of Industrial Welding I, II, III	6-6-6
WLD111M	Technology of Industrial Welding for Manufacturing	6
WLD121,122	Fabrication and Repair Practices I, II	5-5
WLD250P	Selected Topics: CNC Plasma Cutting	3

[1] Required for graduation.

[2] If not taken as required course.

For more information contact the Manufacturing and Engineering Technology Department:

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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.

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:

Set up, operate, and program manual 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.

Operate and program CNC mills and lathes to print specifications.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

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

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MEC102	Mechanical Fabrication	3
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**3-17**

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.

For more information contact the Manufacturing and Engineering Technology Department:

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Manufacturing/Engineering Technology: Computer Numerical Control (CNC) Operator

Career Pathway Certificate

About the Program

This Career Pathway two-term certificate integrates conventional manufacturing techniques with computer numerical control (CNC) manufacturing skills. This training is 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.

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:

Set up, operate, and program manual 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.

Operate and program CNC mills and lathes to print specifications.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

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

Completion Requirements

Students 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
MEC102	Mechanical Fabrication	3
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**3-15**

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:

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MECHATRONICS

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.

Demonstrate skills and ability to design and troubleshoot, rebuild projects, processes and procedures.

Organize, interpret, and use technical information and documentation.

Practice energy efficiency and industrial sustainability.

Identify and demonstrate procedures for personal safety during interaction with automated systems.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MEC102	Mechanical Fabrication	3
MTH63	Applied Algebra I or higher level math or designated placement test [1]	4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement score	0-8
Total Prerequisite Credits		**7-17**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
EET104	Fundamentals of Manufacturing Electronics	4
MEC103	Industrial Safety	1
MEC110	AC/DC Electrical Systems for Manufacturing	3
MEC125	Pneumatics I	3
MET105	Blueprint Reading – Mechanical	3
MFG116	Metrology	2
WR115	Introduction to Expository Writing or	
	BT113 Business English I or higher level composition	3-4
		19-20
Second Term		
MEC115	Electrical Control Systems and Sensors for Manufacturing	3
MEC124	Hoisting and Rigging	3
MFG121	Manufacturing Processes I	4

WLD111	Technology of Industrial Welding I or WLD101 Welding Fundamentals I and WLD102 Welding Fundamentals II	6
		16

Third Term

BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
HE112	Emergency First Aid	1
MEC130	Hydraulics I	3
MEC135	Mechanical Drives I	4
MEC149	Electric Motor Control	4
		15

Total First Year Credits **50-51**

Second Year Required Courses

Fourth Term

Course No.	Course Title	Credits
MEC150	PLC Motor Control	3
MEC231	Hydraulics II	4
MEC236	Mechanical Drives II	4
——	Approved program elective	3-5
		14-16

Fifth Term

LIB127	Introduction to Academic Research, or LIB101 Introduction to Information Literacy	1
MEC151	Programming PLC's I	3
WR121	English Composition I or BT114 Business English II or higher level composition	4
——	Approved program elective	4-8
		12-16

Sixth Term

MEC251	Programming PLC's II	3
MFG280	Cooperative Work Experience/Manufacturing	3
——	Approved program electives	8-11
		14-17

Total Second Year Credits **40-49**

TOTAL PROGRAM CREDITS **90-100**

Approved Program Electives

(15-23 credits required)

Mechanical Focus (Hydraulics, PNL, Drives)

Course No.	Course Title	Credits
CIS140	Introduction to Operating Systems	4
CIS179	Introduction to Networks	4
MEC114	Safety for Industry	3
MEC116	Quality Practices and Measurement	3
MEC118	Manufacturing Processes and Production	3
MEC120	Maintenance Awareness	4
MEC140	Green Production	2
MEC154	Computer Control	3
MEC210	Variable Frequency A/C Drives	2
MEC226	Pneumatics II [3]	2
MEC227	Pneumatics III	2
MEC228	Pneumatic Troubleshooting	3
MEC233	Hydraulic Troubleshooting	4
MEC238	Mechanical Drives III	4
MEC254	PLC Troubleshooting	3
MEC260A	Automation Operations	2-6
MEC260B	Basic Component Adjustments	2-6
MEC260C	Pick and Place Feeding	2-6
MEC260D	Gauging	2-6
MEC260E	Indexing	2-6
MEC260F	Sorting and Queuing	2-6
MEC260G	Servo Robotic Assembly	2-6
MEC260H	Torqueing	2-6
MEC260I	Parts Storage	2-6
MEC260J	Electro Hydraulic Testing	2-6
MEC260K	Multiple Station Control	2-6
MET101	Mechanical Drafting	3
MFG122	Manufacturing Processes II	4
MFG211	Manufacturing Power and Control Electronics	4
WLD112	Technology of Industrial Welding II	6
WLD250A	Selected Topics in Welding: FCAW	2
WLD250B	Selected Topics in Welding: GTAW	2
WLD250C	Selected Topics in Welding: SMAW	2
WLD250D	Selected Topics in Welding: GMAW	2
WLD250P	Selected Topics in Welding: CNC Plasma Cutting	3

Electronics Focus

Course No.	Course Title	Credits
EET105	Digital for Manufacturing	4
EET125	Electronics Fundamentals I (DC)	6
EET129	Introduction to Embedded Systems	3
EET130	Digital Fundamentals I	6
EET131	Digital Fundamentals II	6

Robotics Focus

Course No.	Course Title	Credits
MEC240	Robotics I	3

[1] Required for graduation.

For more information contact the Manufacturing and Engineering Technology Department:

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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.

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.

Demonstrate skills and ability to design and troubleshoot, rebuild projects, processes and procedures.

Organize, interpret, and use technical information and documentation.

Practice 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.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with the Manufacturing/Engineering Technology Department chair's recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. Each College Now credit student must meet with the department chair to determine placement.

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MEC102	Mechanical Fabrication	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		**10-13**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
EET104	Fundamentals of Manufacturing Electronics	4
MEC103	Industrial Safety	1
MEC110	AC/DC Electrical Systems for Manufacturing	3
MEC125	Pneumatics I	3
MET105	Blueprint Reading – Mechanical	3
MFG116	Metrology	2
		16
Second Term		
MEC115	Electronic Control Systems	3
MEC124	Hoisting and Rigging	3
MFG121	Manufacturing Processes I	4
WLD111	Technology of Industrial Welding I or WLD101 Welding Fundamentals I and WLD102 Welding Fundamentals II	6
		16
Third Term		
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
HE112	Emergency First Aid	1
MEC130	Hydraulics I	3
MEC135	Mechanical Drives I	4
MEC149	Electric Motor Control	4
____	Approved Program Electives	0-4
		15-19
TOTAL PROGRAM CREDITS		**47-51**
MEC114	Safety for Industry	3
MEC116	Quality Practices and Measurement	3
MEC118	Manufacturing Processes and Production	3
MEC120	Maintenance Awareness	4
MEC140	Green Production	2
MEC154	Computer Control	3
MEC210	Variable Frequency A/C Drives	2
MEC226	Pneumatics II	2
MEC240	Robotics I	3

[1] Required for graduation.

For more information contact the Manufacturing and Engineering Technology Department:

Grants Pass or Medford. 541-245-7902
Toll free in Oregon . . . . . 800-411-6508, Ext. 7902
email . . . . . manufacturing@roguecc.edu
Web address . . . . . www.roguecc.edu/manufacturing
TTY . . . . . Oregon Telecom Relay Service, 711

Mechatronics: PLC Programming

Certificate of Completion

About the Program

This program is designed to equip the novice with no prior PLC programming experience with the basic tools necessary to create a complete PLC program using ladder logic common to most current platforms. Using the Rockwell software RSLogix 500, Studio 5000and FactoryTalk View Studio, we will be covering such topics as general controls, digital and analog IO, ladder logic programming, alarm / notification handling, HMI, emulation, best practices and more. In the end, we will go through an entire, working PLC program and HMI line by line to solidify comprehension of the learning objectives.

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.

Demonstrate skills and ability to design and troubleshoot, rebuild projects,processes and procedures.

Organize, interpret, and use technical information and documentation.

Practice energy efficiency and industrial sustainability.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with the Manufacturing/Engineering Technology Department chair's recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. Each College Now credit student must meet with the department chair to determine placement.

Graduation Requirements

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

Prerequisites

CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MTH63	Applied Algebra I or higher level math or designated placement score [1]	4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placementscore	0-8
Total Prerequisite Credits		**0-14**

First Term

Course No.	Course Title	Credits
MEC102	Mechanical Fabrication	3
MEC103	Industrial Safety	1
CIS140	Introduction to Operating Systems	4
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition	3-4
		11-12

Second Term

BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
CIS179	Introduction to Networks	4
EET104	Fundamentals of Manufacturing Electronics	4
MEC149	Electric Motor Control	4
		15

Third Term

MEC110	AC/DC Electrical Systems for Manufacturing	3
MEC150	PLC Motor Control	3
MEC151	Programming PLC's I	3
MEC154	Computer Control	3
MEC210	Variable Frequency AC Drives	2
		14

Fourth Term

EET105	Digital for Manufacturing	4
MEC115	Electrical Control Systemsand Sensors for Manufacturing	3
MEC251	PLC Programming II(formerly MEC152)	3
MEC254	PLC Troubleshooting	3
_____	Approved Program Electives	2-6
		15-19

TOTAL PROGRAM CREDITS **55-60**

Approved Program Electives

MEC260A	Automation Operations	2-6
MEC260B	Basic Component Adjustments	2-6
MEC260C	Pick and Place Feeding	2-6
MEC260D	Gauging	2-6
MEC260E	Indexing	2-6
MEC260F	Sorting and Queuing	2-6
MEC260G	Servo Robotic Assembly	2-6
MEC260H	Torqueing	2-6
MEC260I	Parts Storage	2-6
MEC260J	Electro Hydraulic Testing	2-6
MEC260K	Multiple Station Control	2-6

[1] Required for graduation.

For more information,contact the Manufacturing and Engineering Technology Department:

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Mechatronics: Maintenance Technician

Career Pathway Certificate

About the Program

Today's manufacturing industry uses robots and other advanced fabrication and assembly equipment to produce a wide variety of products. All of these systems rely on digital controls including programmable logic controllers. Mechatronics technicians calibrate, troubleshoot, and repair both the manufacturing equipment and the controllers. Mechatronic technicians in southern Oregon are needed by manufacturers in the food processing, wood products, and metal fabrication industries.

The Mechatronics Specialist Career Pathway two-term certificate program is designed to recognize students' accomplishments in manufacturing, welding, and/or electronics, and prepare them for entry-level work experiences in the mechatronics field. Students begin with applied mathematics, industrial safety and tool use, and can then select from electronics, mechanical technology, welding, and other electives to complete the pathways certificate. Credits from this certificate will transfer to the one-year Mechatronics Specialist Certificate and/or the Mechatronics Associate of Applied Science degree.

Foundational skills in math, technical writing, safety, workplace survival, and workplace expectations are combined with welding, hydraulics, and other applied courses. Most of the courses in the program are hands-on, open-lab courses supported by online instruction providing students exceptional flexibility when working around family, employment, or other commitments.

Program Learning Outcomes

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

Install, troubleshoot, maintain and repair mechatronic systems using industry-standard tools, practices and procedures.

Demonstrate skills and ability to design and troubleshoot, rebuild projects, processes and procedures.

Organize, interpret, and use technical information and documentation.

Practice energy efficiency and industrial sustainability.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with the Manufacturing/Engineering Technology Department chair's recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward

core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. Each College Now credit student must meet with the department chair to determine placement.

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

Completion Requirements

Students 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MEC102	Mechanical Fabrication	3
MTH63	Applied Algebra I or designated placement 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 score	0-8
Total Prerequisite Credits		**3-17**

Approved Program Electives

(choose a minimum of 12 credits from the list)

Course No.	Course Title	Credits
MEC103	Industrial Safety	1
MEC125	Pneumatics I	3
MEC130	Hydraulics I	3
MEC135	Mechanical Drives I	4
MEC149	Electric Motor Control	4
MET105	Blueprint Reading – Mechanical	3
WLD111	Technology of Industrial Welding or WLD101 Welding Fundamentals I and WLD102 Welding Fundamentals II	6
TOTAL PROGRAM CREDITS		**24**

For more information contact the Manufacturing Engineering Technology Department:

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Mechatronics: Fluid Power Specialist

Career Pathway Certificate

About the Program

Fluid power is a term describing hydraulics and pneumatics technologies. Both technologies use a fluid (liquid or gas) to transmit power from one location to another. With hydraulics, the fluid is a liquid (usually oil), whereas pneumatics uses a gas (usually compressed air). Pneumatics and hydraulics have powered machines in innumerable applications across manufacturing, industry, agriculture, power generation, and many more for decades. These power sources are utilized all over the world in countless fields, so a strong theoretical understanding combined with hands-on training in pneumatic and hydraulic applications is indispensable for nearly any industry. Both are forms of power transmission, which is the technology of converting power to a more useable form and distributing it to where it is needed. The common methods of power transmission are electrical, mechanical, and fluid power.

The Fluid Power Specialist certificate prepares students for entry-level positions in today's fast-paced mechanical and 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.

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.

Demonstrate skills and ability to design and troubleshoot, rebuild projects,processes and procedures.

Organize, interpret, and use technical information and documentation.

Practice energy efficiency and industrial sustainability.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with the Manufacturing/Engineering Technology Department chair's recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chairbefore being accepted toward core requirements. Students must complete coursework in theirmajor at a "C" or better level before proceeding to advanced coursework. Each College Now credit student must meet with the department chairto 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH63	Applied Algebra Ior higher level mathor designated placement	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 score	0-8
Total Prerequisite Credits		**0-14**

Required Courses

Course No.	Course Title	Credits
First Term		
MEC102	Mechanical Fabrication	3
MEC103	Industrial Safety	1
MEC125	Pneumatics I	3
MEC130	Hydraulics I	3
_____	Approved Program Electives	2-4
		12-14
Second Term		
MEC226	Pneumatics II	2
MEC231	Hydraulics II	4
MEC232	Hydraulics III	2
MEC233	Hydraulic Troubleshooting	4
		12
TOTAL PROGRAM CREDITS		**24-26**

Approved Program Electives

(minimum one course)

Course No.	Course Title	Credits
MEC124	Hoisting and Rigging	3
MEC135	Mechanical Drives I	3
MEC227	Pneumatics III	2
MEC228	Pneumatic Troubleshooting	4

For more information contact the Manufacturing Engineering Technology Department:

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Mechatronics: Power Transmission

Career Pathway Certificate

About the Program

Power Transmission is an engineering method that matches the power machine and the working part of the machine in terms of energy configuration, movement speed and motion form.Of the four major types of transmissions (mechanicaldrives, hydraulic, pneumaticand motor controls) that are currently in use, none of the power transmissionsare perfect.

Electric motor control teaches electric relay control of AC electric motors found in industrial, commercial, and residential applications. Learners gain understanding of the operation, installation, design, and troubleshooting of AC electric motor control circuits for many common applications.

Students will develop skills in interpreting schematics, system design, motor start / stop circuits, motorsequence control, reversing motor control, and motor jogging. Safety is emphasized throughout, highlighting motor safety, lockout / tagout and safety interlocks.

Mechanical drives introduces mechanical systems and develops fundamental knowledge of mechanical systems and practices. The program 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.

Basic hydraulics introduces hydraulic safety, power use and application, allowing learners to develop skills and knowledge needed to apply hydraulics in modern industry. It 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. It covers pumps, fluid friction, how to connect hydraulic circuits, hydraulic cylinders and valves (including needle valves), and a wide array of hydraulic applications.

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.

Demonstrate skills and ability to design and troubleshoot, rebuild projects,processes and procedures.

Organize, interpret, and use technical information and documentation.

Practice energy efficiency and industrial sustainability.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with the Manufacturing/Engineering Technology Department chair's recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chairbefore 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 chairto 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH63	Applied Algebra Ior higher level mathor designated placement	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 score	0-8
Total Prerequisite Credits		**0-14**

Required Courses

Course No.	Course Title	Credits
First Term		
MEC102	Mechanical Fabrication	3
MEC103	Industrial Safety	1
MEC125	Pneumatics I	3
MEC130	Hydraulics I	3
MEC135	Mechanical Drives I	4
		14
Second Term		
MEC226	Pneumatics II	2
MEC231	Hydraulics II	4
_____	Approved Program Electives[1]	6-8
		12-14
Third Term		
MEC149	Electric Motor Controls	4
MEC150	PLC Motor controls	3
MEC154	Computer control	3
MEC236	Mechanical Drives II	4
		14
TOTAL PROGRAM CREDITS		**40-42**

[1] Elective maximum 8 credits.

Approved Program Electives

(total of 6 to 8 credits)

Course No.	Course Title	Credits
MEC124	Hoisting and Rigging	3
MEC227	Pneumatics III	2
MEC228	Pneumatic Troubleshooting	4
MEC236	Mechanical Drives II	3

For more information contact the Manufacturing Engineering Technology Department:
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Mechatronics: Production Technician
Career Pathway Certificate

About the Program

The purpose of the Production Technician program is to recognize through certification individuals who demonstrate mastery of the core competencies of manufacturing production at the front-line (entry-level through front-line supervisor) through successful completion of the certification assessments. The goal of the program is to raise the level of performance of production workers both to assist the individuals in finding higher-wage jobs and to help employers ensure their workforce increases the company's productivity and competitiveness.

The Production Technician program consists of five individual certificate modules: Safety; Quality Practices & Measurement; Manufacturing Processes & Production; Maintenance Awareness and Green Production. Students must earn the first four certificates to receive the full Certified Production Technician certification. (Note: At this time Green is not required for full-CPT certification.)

Program Learning Outcomes

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

Demonstrate skills and ability to design and troubleshoot, rebuild projects, 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.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with the Manufacturing/Engineering Technology Department chair's recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. Each College Now credit student must meet with the department chair to determine placement.

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

Completion Requirements

Students 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MEC102	Mechanical Fabrication	3
MTH63	Applied Algebra I or designated placement 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 score	0-8
Total Prerequisite Credits		**3-17**

Required Courses

Course No.	Course Title	Credits
MEC114	Safety for Industry	3
MEC116	Quality Practices and Measurements	3
MEC118	Manufacturing Processes and Production	3
MEC120	Maintenance Awareness	4

Optional Elective

Course No.	Course Title	Credits
MEC140	Green Production	2
TOTAL PROGRAM CREDITS		**13-15**

For more information contact the Manufacturing and Engineering Technology Department:
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Graduates, 1980s

DIGITAL AND DESIGN MEDIA

Digital Cinema 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 Digital Cinema. Students completing this degree will meet the requirements for the foundation courses within the Digital Cinema degree requirements. Students must work closely with advisors in their areas of interest to ensure electives are appropriate.

The curriculum allows for 30 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 Digital Cinema Transfer to Southern Oregon University degree is:

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 creative 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, aesthetics, and the construction of original meaningful narratives.

Technique: Understand tools and technology, including their roles in the creation, reproduction, and distribution of visual messages. Relevant tools and technologies include drawing, photography, 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.

Aesthetic Fluency: Recognize and apply aesthetic principles of 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 objects.

Professionalism: Employ the basic business practices and trade ethics related to the video arts, including the ability to organize projects and to work productively in client 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 film 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 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MTH95	Intermediate Algebra or MTH96 Applied Algebra II or designated placement score	0-4
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits		**0-9**

General Education Requirements

Course No.	Course Title	Credits
ART131	Introduction to Drawing	3
COMM225	Small Group Communication and Problem-solving or COMM111 Fundamentals of Public Speaking or COMM218 Interpersonal Communication	3-4
CIS195	Web Authoring I (HTML/CSS)	4
LIB127	Introduction to Academic Research	1
MTH105	Introduction to Contemporary Mathematics or higher level math [2]	4-5
MUS208	Film Music	3
WR121	English Composition I	4
WR122	English Composition II	4
WR241	Imaginative Writing I	4
——	Approved humanities electives [3]	9-12
——	Approved science electives w/lab [4]	8-10
——	Approved social science electives [5]	12-16
Total General Education Requirements		**60-70**

Core Requirements

Course No.	Course Title	Credits
DDM125	Introduction to Digital Photography	3
DDM130	Introduction to Web Graphics	3
DDM160	Digital Imaging (Photoshop)	3
DDM170	Motion Graphics (After-Effects)	3
DDM180	Introduction to Digital Video (Premiere)	3
DDM181	Advanced Digital Video	3
DDM190	Introduction to Animation (Animate)	3
DDM200	Survey of Design and Film History	3
DDM229	Portfolio and Professional Practices	3
DDM230	Studio Capstone	3
Total Core Credits		**30**
TOTAL PROGRAM CREDITS		**90-100**

[1] Required for graduation.

[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, 9-12 credits, or a sufficient number of electives to meet the total degree requirements of at least 90 credits, if not taken as a general education requirement.)

Course No.	Course Title	Credits
ART132	Introduction to Drawing	3
ART204,205,206	History of Art I, II, III	4-4-4
COMM115	Introduction to Intercultural Communication	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 Literature4	-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
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
TA141	Fundamentals of Acting	4
WR242,243	Imaginative Writing II, III	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 four courses from the following list, 12-16 credits)

Course No.	Course Title	Credits
ANTH110,150	Introduction to Cultural Anthropology/Archaeology	4-4
BA101	Introduction to Business	4
BA218	Personal Finance	3
CJ120	Introduction to the Judicial Process	4
CJ200/SOC244	Introduction to Criminology	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	Introduction to International Studies I	4
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

For more information, contact the Visual Arts and Design Department:

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email . . . . . vad@roguecc.edu
Web address . . . . . www.roguecc.edu/landing/designDigitalMedia
TTY . . . . . Oregon Telecom Relay Service, 711

Emerging Media and Digital Arts Transfer to Southern Oregon University

Associate of Science Degree

Final articulation agreement pending at time of catalog print. See program advisor for updated information.

About the Program

This Associate of Science (AS) degree is based on a signed articulation agreement with Southern Oregon University (SOU). The program is designed for students transferring to its baccalaureate degree program in Emerging Media and Digital Arts (EMDA). Students completing this degree will meet the requirements for the foundation courses within the EMDA degree requirements. Students must work closely with advisors in their areas of interest to ensure electives are appropriate.

The curriculum allows for 44 core credits within the major area. By completing all appropriate credits (including electives), students will fulfill required lower division coursework for transfer to SOU. Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the transfer requirements of the college of their choice.

Program Learning Outcome

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. The program learning outcome for the Emerging Media and Digital Arts Transfer to Southern Oregon University degree is:

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. Operate 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. Employ the basic business practices and trade ethics related to graphic arts, including the ability to organize design projects and to work productively in client-designer and team relationships in the implementation and evaluation of projects.

Portfolio. Organize and present a portfolio of work that gives evidence of the skills, knowledge, and abilities to begin a graphic design career or transfer to a four-year college for additional study.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH95	Intermediate Algebra or MTH96 Applied Algebra II or designated placement score	0-4
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits		**0-9**

General Education Requirements

Course No.	Course Title	Credits
ART131	Introduction to Drawing	3
COMM225	Small Group Communication and Problem-solving or COMM100 Basic Communication or COMM111 Fundamentals of Public Speaking or COMM218 Interpersonal Communication	3-4
CIS195	Web Authoring I (HTML/CSS)	4
LIB127	Introduction to Academic Research	1
MTH105	Introduction to Contemporary Mathematics or higher level math [1]	4-5
WR121	English Composition I	4
WR122	English Composition II	4
___	Approved humanities electives [2]	6-8
___	Approved science electives with lab [3]	8-10
___	Approved social science electives [4]	9-12
Total General Education Requirements		**46-55**

Core Requirements

Course No.	Course Title	Credits
DDM120	Digital Graphic Design I	3
DDM125	Introduction to Digital Photography	3
DDM130	Introduction to Web Tools	3
DDM140	Electronic Publishing I (InDesign)	3
DDM150	Computer Illustration (Illustrator)	3
DDM160	Digital Imaging (Photoshop)	3
DDM180	Introduction to Digital Video (Premiere)	3
DDM190	Introduction to Animation (Animate)	3
DDM220	Digital Graphic Design II	3
DDM229	Portfolio and Professional Practices	3
___	Approved Computer Science/ Design and Digital Media electives [5]	14
Total Core Credits		**44**
TOTAL PROGRAM CREDITS		**90-99**

[1] 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.

[2] Approved Humanities Electives

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

Course No.	Course Title	Credits
ART204,205,206	History of Art I, II, III	4-4-4
COMM115	Introduction to Intercultural Communication	4
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
IS110	Introduction to International Studies I	4
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3

MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141	Fundamentals of Acting	4
WR241,242,243	Imaginative Writing I, II, III	4-4-4

[3] Approved Science Electives

(Complete at least two lab courses from the following list, 8-10 credits. Note that one course can be a regional field studies course.)

Course No.	Course Title	Credits
BI100GB	Introductory Biology (non-lab course)	3
BI100SB	Biology of Human Body Systems (non-lab course)	3
BI101,102,103	Introduction to Biology I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM106	Introductory Biochemistry with lab	4
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
ENV111	Introduction to Environmental Science (non-lab course)	3
G100	Fundamentals of Geology (non-lab course)	3
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GEOG100	Introduction to Physical Geography (non-lab course)	3
GS104,106,107,108	Physical Science with lab	4-4-4-4
GS170	Regional Field Studies with lab	4
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

[4] Approved Social Science Electives

(complete at least three courses from the following list, 9-12 credits)

Course No.	Course Title	Credits
ANTH110,150	Introduction to Cultural Anthropology/Archaeology	4-4
BA101	Introduction to Business	4
BA218	Personal Finance	3
CJ120	Introduction to the Judicial Process	4
CJ200/SOC244	Introduction to Criminology	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
PS201,202,203	American Government I, II, III	3-3-3
PSY101	Psychology of Human Relations	3
PSY119	Psychology of Personal Growth	4
PSY201,202	General Psychology I, II	4-4
PSY215	Life Span Human Development	4
PSY219	Introduction to Abnormal Psychology	4
PSY231	Human Sexuality	3
SOC204,205	Introduction to Sociology, American Society	4-4
SOC211	Social Deviance and Social Control	3
SOC213	Race and Ethnicity in the U.S.	4
SOC218	Sociology of Gender	4
SOC225	Social Problems and Solutions	4
SOC228	Environment and Society	4
SOC230	Introduction to Gerontology	4
SOC235/HST259	The Chicano/Latino Historical Experience	4

[5] Approved Design and Digital Media Electives

(Complete 14 credits or a sufficient number of electives to meet the total degree requirements of at least 90 credits.)

Course No.	Course Title	Credits
DDM141	Electronic Publishing II	3
DDM161	Advanced Digital Imaging	4
DDM170	Motion Graphics (After Effects)	3
DDM181	Advanced Digital Video	3
DDM200	Survey of Design and Film History	3
DDM221	Production Graphics	3
DDM225	3D Graphics I (Blender)	3
DDM230	Studio Capstone, or	
	DDM280 Cooperative Work Experience/Graphic Design	3
DDM235	Website Design I	4

For more information contact the Visual Arts and Design Department:

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email . . . . . vad@roguecc.edu
Web address . . . . . https://www.roguecc.edu/landing/designDigitalMedia.html

Design and Digital Media
Associate of Applied Science Degree

About the Program

This program is for students interested in visual communication and digital arts and prepares them for entry-level employment in graphic design, Web design and advertising design positions within organizations. Courses cover principles of design, creative problem solving, art/design history, drawing, typography, and portfolio building. With core instruction based in aesthetic concepts and computer graphics applications, students learn to develop and integrate strong design technique with computer skill sets. These include instruction in digital imaging, graphic illustration, publication design, and Web authoring, as well as opportunities for instruction in video production, social media, 3D modeling, digital animation and digital photography.

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for Design and Digital Media programs are:

Problem Solving: Solve communication problems and carry projects from creation through to the production process; including the skills of problem identification, research and information gathering, analysis, generation of alternative solutions, prototyping, user testing, integration of feedback and the evaluation of outcomes.

Communication. Describe and respond to the audiences and contexts, which communication solutions must address, including recognition of the physical, cognitive, cultural, and social human factors that shape design decisions.

Demonstration. Create and develop visual concepts in response to communication problems, including an understanding of the principles of visual organization, information hierarchy, symbolic representation, typography, aesthetics, and the construction of original meaningful forms.

Technique. Operate tools and technology, and recognize 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. 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. Employ basic business practices and trade ethics related to graphic arts, including the ability to organize design projects and to work productively in client-designer and team relationships in the implementation and evaluation of projects.

Portfolio. Organize and present a portfolio of work that gives evidence of the skills, knowledge, and abilities to begin a graphic design career or transfer to a four-year college for additional study.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

If students intend to transfer to SOU's Bachelor of Applied Science degree program, transfer courses should be chosen from the list of electives where possible. See an advisor for more information or visit www.sou.edu/degreecompletion.

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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH20	Pre-algebra or designated placement score	0-4
WR115	Introduction to Expository Writing or BT113 Business English I or designated placement score	0-4
Total Prerequisite Credits		**0-10**

General Education Requirements

Course No.	Course Title	Credits
COMM111	Fundamentals of Public Speaking or COMM218 Interpersonal Communication	4
HE250	Personal Health or HE112 Emergency First Aid or HE252 First Aid/CPR or HE261 CPR/Basic Life Support Provider or HPE295 Health and Fitness for Life	1-3
LIB127	Introduction to Academic Research	1
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
PSY101	Psychology of Human Relations	3
WR121	English Composition I	4
Total General Education Credits		**17-19**

Required Core Courses

Course No.	Course Title	Credits
ART115	Basic Design (Composition)	3
ART116	Basic Design (Color Theory)	3
ART245	Drawing for Graphic Design or ART222 Graphic Design (Typography)	3
BT106	Advertising or BA243 Social Media Marketing	3
CIS195	Web Authoring I (HTML/CSS)	4
DDM120	Digital Graphic Design I	3
DDM130	Intro to Web Tools	3
DDM131	Content Management Systems (Word Press)	3
DDM140	Electronic Publishing I (InDesign)	3
DDM141	Electronic Publishing II	3
DDM150	Computer Illustration (Illustrator)	3
DDM160	Digital Imaging (Photoshop)	3
DDM200	Survey of Design and Film History	3
DDM220	Digital Graphic Design II	3
DDM221	Production Graphics	3
DDM223	Digital Graphic Design III	3
DDM224	Digital Graphic Design IV	3
DDM229	Portfolio and Professional Practices	3
DDM230	Design Studio Capstone or DDM280 Cooperative Work Experience/Design and Digital Media	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) (if not taken as core requirement)	3
ART234	Figure Drawing	3
ART237	Illustration (Black and White Media)	3
ART238	Illustration (Color Media)	3
ART239	Illustration (Perspective)	3
ART281	Painting I	3
ART294	Watercolor I	3
BA223	Principles of Marketing or BT250 Entrepreneurship	3
BT121	Digital Marketing and e-Commerce	4
CIS196	Web Authoring II (HTML/CSS)	4
DDM125	Digital Photography	3
DDM161	Advanced Digital Imaging	4
DDM170	Motion Graphics (After Effects)	3
DDM180	Introduction to Digital Video (Premiere)	3
DDM181	Advanced Digital Video	3
DDM190	Introduction to Animation (Animate)	3
DDM225	3D Graphics I (Blender)	3
DDM235	Website Design I	4
DDM280	Cooperative Work Experience/Graphic Design	variable
MTH	Any math course, MTH65 or higher	variable

For more information contact the Visual Arts and Design Department:

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Web address . . . . . https://www.roguecc.edu/landing/designDigitalMedia.html

Design and Digital Media
Certificate of Completion

About the Program

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

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

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 Design and Digital Media are:

Problem Solving: Solve communication problems and carry projects from creation through to the production process; including the skills of problem identification, research and information gathering, analysis, generation of alternative solutions, prototyping, user testing, integration of feedback and the evaluation of outcomes.

Demonstration. Create and develop visual concepts in response to communication problems, including an understanding of the principles of visual organization, information hierarchy, symbolic representation, typography, aesthetics, and the construction of original meaningful forms.

Technique. Operate tools and technology, and recognize roles in the creation, reproduction, and distribution of visual messages. Relevant tools and technologies include drawing, offset printing, photography, and time-based and interactive media.

Professionalism. Employ the basic business practices and trade ethics related to graphic arts, including the ability to organize design projects and to work productively in client-designer and team relationships in the implementation and evaluation of projects.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

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

Graduation Requirements

Students 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH20	Pre-algebra or designated placement score	0-4
WR115	Introduction to Expository Writing or BT113 Business English I or designated placement score	0-4
Total Prerequisite Credits		**0-10**

Required Technical Courses

Course No.	Course Title	Credits
Fall Term		
ART115	Basic Design (Composition)	3
DDM120	Digital Graphic Design I	3
DDM140	Electronic Publishing I (InDesign)	3
DDM160	Digital Imaging (Photoshop)	3
WR121	English Composition I	4
		16
Winter Term		
ART116	Basic Design (Color Theory)	3
ART131	Introduction to Drawing I (Value) or ART222 Graphic Design (Typography)3	
DDM141	Electronic Publishing II	3
DDM150	Computer Illustration (Illustrator)	3
PSY101	Psychology of Human Relations	3
		15
Spring Term		
ART245	Drawing for Graphic Design or ART237 Illustration (Black and White Media)	3
DDM130	Intro to Web Tools	3
DDM220	Digital Graphic Design II	3
DDM221	Production Graphics	3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
		16
TOTAL PROGRAM CREDITS		**47**

For more information contact the Visual Arts and Design Department:

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Web address . . . . . https://www.roguecc.edu/landing/designDigitalMedia.html

Design and Digital Media: Adobe® Applications Technician
Career Pathway 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 Cloud applications is required. It is the first step to the one-year Design and Digital Media certificate and the Associate of Applied Science (AAS) degree in Design and Digital Media. The AAS is designed to prepare students for employment in various design-related industries and fields, including Web design, graphic design, publishing, advertising, media/printing/editing, or begin careers as freelance designers.

Students 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 Design and Digital Media programs are:

Technique. Operate tools and technology, and recognize 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. Determine the mode(s) of production required to achieve a specific product and to demonstrate level-appropriate mastery of skills, manual and/or digital, necessary to achieve those products. Apply the principles of color, composition, hierarchy, typography as they relate in the various media—digital, print, motion, 3-D, etc.—that exist in design.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

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

Completion Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-14**

Required Courses

Course No.	Course Title	Credit
DDM140	Electronic Publishing I (InDesign)	3
DDM150	Computer Illustration (Illustrator)	3
DDM160	Digital Imaging (Photoshop)	3
DDM180	Introduction to Digital Video (Premiere)	3
DDM190	Introduction to Animation (Animate) or DDM170 Motion Graphics (After Effects)	3
TOTAL PROGRAM CREDITS		**15**

For more information contact the Visual Art and Design Department:

Grants Pass 541-956-7140
Medford 541-245-7527
Toll free in Oregon . . . . . 800-411-6508, Ext. 7140 or Ext. 7527
email . . . . . vad@roguecc.edu
Web address . . . . . https://www.roguecc.edu/landing/designDigitalMedia.html

Design and Digital Media: Social Media Technician

Career Pathway Certificate

About the Program

The Social Media Technician Career Pathway one-term certificate prepares students for work in entry-level positions in the social media industry where a working knowledge of Social Media Design applications and skills is required. It is the first step to the one-year Design and Digital Media certificate and the Associate of Applied Science (AAS) degree in Design and Digital Media. The AAS is designed to prepare students for employment in various design-related industries and fields, including Web design, graphic design, publishing, advertising, media/printing/editing, or to begin careers as freelance designers.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for Design and Digital Media programs are:

Technique. Operate tools and technology, recognize 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. Determine the mode(s) of production required to achieve a specific product and to demonstrate level-appropriate mastery of skills, manual and/or digital, necessary to achieve those products. Apply the principles of color, composition, hierarchy, typography as they relate in the various media—digital, print, motion, 3-D, etc.—that exist in design.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

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

Completion Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-14**

Required Courses

Course No.	Course Title	Credit
BA243	Social Media Marketing	3
DDM120	Digital Graphic Design I	3

DDM130	Intro to Web Tools	3
DDM131	Content Management Systems (Word Press)	3
DDM160	Digital Imaging (Photoshop)	3
TOTAL PROGRAM CREDITS		**15**

For more information contact the Visual Arts and Design Department:

Grants Pass 541-956-7140
Medford 541-245-7527
Toll free in Oregon . . . . . 800-411-6508, Ext. 7140 or Ext. 7527
email . . . . . vad@roguecc.edu
Web address . . . . . https://www.roguecc.edu/landing/designDigitalMedia.html

Design and Digital Media: UI-UX Technician
Career Pathway Certificate

About the Program

The UI-UX Technician Career Pathway one-term certificate prepares students for work in entry-level positions in the social media industry where a working knowledge of Web Development applications and skills is required. It is the first step to the two-year Associate of Applied Science (AAS) degree in Design and Digital Media. The AAS is designed to prepare students for employment in various design-related industries and fields, including Web design, graphic design, publishing, advertising, media/printing/editing, or begin careers as freelance designers.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for Design and Digital Media programs are:

Technique. Operate tools and technology, recognize 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. Determine the mode(s) of production required to achieve a specific product and to demonstrate level-appropriate mastery of skills, manual and/or digital, necessary to achieve those products. Apply the principles of color, composition, hierarchy, typography as they relate in the various media—digital, print, motion, 3-D, etc.—that exist in design.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

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

Completion Requirements

Students completing the required credits in this program with a grade of "C" or better will receive a Career Pathway certificate in DDM UI-UX. 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-14**

Required Courses

Course No.	Course Title	Credit
CIS195	Web Authoring I (HTML/CSS)	4
DDM120	Digital Graphic Design I	3
DDM130	Intro to Web Tools	3
DDM131	Content Management Systems (Word Press)	3
DDM160	Digital Imaging (Photoshop)	3
TOTAL PROGRAM CREDITS		**16**

For more information contact the Visual Art and Design Department:

Grants Pass 541-956-7140
Medford 541-245-7527
Toll free in Oregon . . . . . 800-411-6508, Ext. 7140 or Ext. 7527
email . . . . . vad@roguecc.edu
Web address . . . . . www.roguecc.edu/landing/designDigitalMedia

Design and Digital Media: Video Production Technician
Career Pathway Certificate

About the Program

The Video Production Technician Career Pathway one-term certificate prepares students for work in entry-level positions in the social media industry where a working knowledge of Video Production applications and skills is required. It is the first step to the two-year Associate of Science (AS) transfer degree in Digital Cinema. The AS is designed to prepare students for employment in various design-related industries and fields, including Web design, graphic design, publishing, advertising, media/printing/editing, or begin careers as freelance designers.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for Design and Digital Media programs are:

Technique. Operate tools and technology, recognize 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. Determine the mode(s) of production required to achieve a specific product and to demonstrate level-appropriate mastery of skills, manual and/or digital, necessary to achieve those products. Apply the principles of color, composition, hierarchy, typography as they relate in the various media—digital, print, motion, 3-D, etc.—that exist in design.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

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

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

Completion Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-14**

Required Courses

Course No.	Course Title	Credit
DDM125	Introduction to Digital Photography	3
DDM160	Digital Imaging (Photoshop)	3
DDM170	Motion Graphics (After-Effects)	3
DDM180	Introduction to Digital Video (Premiere)	3
DDM181	Advanced Digital Video	3
TOTAL PROGRAM CREDITS		**15**

For more information contact the Visual Arts and Design Department:

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Web address . . . . . https://www.roguecc.edu/landing/designDigitalMedia.html

BUSINESS TECHNOLOGY

Business Technology
Associate of Applied Science Degree

About the Program

The Business Technology two-year degree provides an opportunity for students to learn about the business enterprises in society as well as prepare for various careers. This degree provides for flexibility in selecting elective classes while allowing students to investigate a wide range of areas within the business field. Students who want a general business foundation will be well served by the Business Technology AAS degree. There are also two program options should students want to pursue a specialized focus area.

For students who desire employment as bookkeepers, accounting assistants and billing clerks, the Accounting Option provides advanced study in practical accounting using both manual and computerized accounting systems.

Students who plan to supervise other workers, start their own business enterprises, or work in the sales, advertising or e-commerce sectors, will find the Management and Marketing Option well suited to those career goals.

Program Learning Outcomes

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

Business Ethics: Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

Communication/Information Literacy: Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

Critical Evaluation/Decision Making: Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

Interpersonal Skills: Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department head before being accepted toward core 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.

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
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-12**

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
CIS125WW	Word Processing Applications (Word)	3
COMM111	Fundamentals of Public Speaking or COMM100 Basic Communication or COMM115 Intercultural Communication or COMM218 Interpersonal Communication or COMM225 Small Group Communication and Problem-solving	3-4
ECON115	Introduction to Economics	3
HE112	Emergency First Aid or HE250 Personal Health or HE252 First Aid/CPR or HE261 CPR/Basic Life Support Provider or HPE295 Health and Fitness for Life	1-3
LIB127	Introduction to Academic Research	1
	Approved program electives [2]	14-15
TOTAL BUSINESS TECHNOLOGY PROGRAM CREDITS		**90-94**

Required Courses – Accounting Option

Course No.	Course Title	Credit
BA177	Payroll and Tax Procedures	3
BA213	Managerial Accounting	4
BA228	Computer Accounting Applications	2
	Approved program electives	5-6
		14-15
TOTAL BUSINESS TECHNOLOGY ACCOUNTING OPTION CREDITS		**90-94**

Required Courses – Management & Marketing Option

Course No.	Course Title	Credit
BA206	Management Fundamentals	3
BT102	Introduction to Supervision	3
BT106	Advertising	3
BT121	Digital Marketing and e-Commerce	4
	Approved program electives	1-3
		14-16

TOTAL BUSINESS TECHNOLOGY MANAGEMENT & MARKETING OPTION CREDITS 90-95

Approved Program Electives

(Select 1-15 credits from courses not otherwise required within the base program or option area.)

Course No.	Course Title	Credit
BA177	Payroll and Tax Procedures	3
BA199	Special Studies in Business	variable
BA206	Management Fundamentals	3
BA213	Managerial Accounting	4
BA224	Human Resource Management	3
BA228	Computer Accounting Applications	2
BA238	The Art of Selling	3
BA249	Retail Management	3
BA280	Cooperative Work Experience/Business	1-9
BT102	Introduction to Supervision	3
BT106	Advertising	3
BT121	Digital Marketing and e-Commerce	
BT250	Entrepreneurship	3
——	Any CIS125 applications course (except those taken to fulfill core requirements)	1-6
ECON201	Introduction to Microeconomics	4
ECON202	Introduction to Macroeconomics	4
WR110	Understanding English Grammar	2
WR227	Technical Writing	4
——	Any world language	4-12

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

2 Not required for students completing the Accounting or Management and Marketing options. They will complete 1-6 elective credits and the option area coursework listed.

For more information contact the Business Department:

Grants Pass 541-956-7066
Medford 541-245-7527
Toll free in Oregon . . . . . 800-411-6508, Ext. 7066 or Ext. 7527
email . . . . . .rwcbusiness@roguecc.edu or rvcbusiness@roguecc.edu
Web address . . . . . www.roguecc.edu/business
TTY . . . . . Oregon Telecom Relay Service, 711

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 must work closely with advisors in their areas of interest to ensure electives are appropriate. The curriculum allows for 45 core credits within the major area. By completing all appropriate credits (including electives), students will fulfill required lower division coursework for transfer to Oregon Tech.

If students transfer before completing this degree or transfer in a major not covered by prior agreements, courses will be evaluated individually toward the transfer requirements of the college of their choice. Students are advised to obtain written approval from Oregon Tech to guarantee their catalog of transfer for three years. Courses in this program may also be applied to Oregon Tech's Bachelor of Science in Healthcare Management, Administration Option. See a Business Advisor for more information.

Program Learning Outcomes

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

Business Ethics: Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

Communication/Information Literacy: Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

Critical Evaluation/Decision Making: Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

Interpersonal Skills: Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over four years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
MTH95	Intermediate Algebra or designated placement score	0-4
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits		**0-7**

General Education Requirements

Course No.	Course Title	Credits
COMM111	Fundamentals of Public Speaking	4
BA214	Business Communications or	
	SP115 Introduction to Intercultural Communication or	
	SP218 Interpersonal Communication	4
LIB127	Introduction to Academic Research	1
MTH111	College Algebra	4
MTH243	Probability and Statistics with lab	4
MTH244	Inferential Statistics	4
PSY202	General Psychology II	4
WR121	English Composition I [1]	4
WR122	English Composition II [1]	4
WR227	Technical Writing	4
	Approved humanities electives [2]	3-4
	Approved lab science elective [3]	8
Total General Education Credits		**48-49**

Core Requirements

Course No.	Course Title	Credits
BA101	Introduction to Business	4
BA131	Introduction to Business Computing	4
BA206	Management Fundamentals	3
BA211	Financial Accounting I	4
BA212	Financial Accounting II [4]	4
BA213	Managerial Accounting	4
BA223	Principles of Marketing	3
BA224	Human Resource Management	3
BA226	Business Law	4
BA285	Advanced Business Applications: Excel [5]	4
ECON201	Microeconomics	4
ECON202	Macroeconomics	4
Total Core Credits		**45**
TOTAL PROGRAM CREDITS		**93-94**

[1] 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 93 transfer-level, applicable credits to receive this degree.

[2] Approved Humanities Electives

(Complete 3-4 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

[3] Approved Lab Science Electives

(Complete at least 8 credits 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

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

[5] Students who have previously taken CIS125SS Spreadsheet Applications, 3 credits, will have met the requirement, but still need at least 93-94 applicable credits to receive this degree.

For more information contact the Business Technology Department:

Grants Pass 541-956-7066
Medford 541-245-7527
Toll free in Oregon . . . . . 800-411-6508, Ext. 7066 or 7527
email . . . . . rwcbusiness@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 articulated with SOU's Business program. The program offers an excellent balance of business and general education courses that support advanced study in the field of business.

Students should contact the SOU School of Business early in the first year of the program to be advised about additional requirements and procedures for admission to the school or program. Students transferring to SOU will be required to complete BA100 at SOU during the first quarter.

Students should be aware that if they transfer before completing this degree, courses will be evaluated individually toward the general education requirements in effect at SOU.

Program Learning Outcomes

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

Business Ethics: Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

Communication/Information Literacy: Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

Critical Evaluation/Decision Making: Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

Interpersonal Skills: Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department chair's approval. In order to ensure coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward course requirements.

Graduation Requirements

Students must complete a minimum of 90 term credits of lower division collegiate courses with a minimum grade of "C" or better.

Prerequisites

Course No.	Course Title	Credits
MTH95	Intermediate Algebra or designated placement score	0-4
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits		**0-7**

General Education Requirements 16

Course No.	Course Title	Credits
Writing Skills and Oral Communication		
COMM111	Fundamentals of Public Speaking or COMM225 Small Group Communication or COMM218 Interpersonal Communication	4
WR121	English Composition I	4
WR122	English Composition II or WR227 Technical Writing	4
Mathematics		**4**
MTH243	Probability and Statistics with lab	4

Distribution/Explorations Requirements 31-38

Humanities 9-12

(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
COMM115	Introduction to Intercultural Communication	4
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
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 with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM106	Introductory Biochemistry with lab	4
CIS195	Web Authoring I (non-lab course)	4
ENV111	Introduction to Environmental Science (non-lab)	3
G100	Fundamentals of Geology (non-lab course)	3
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GEOG100	Introduction to Physical Geography (non-lab course)	3
GS104,106,107,108	Physical Science with lab	4-4-4-4
GS170 *	Regional Field Studies with lab	4
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5
Total Distribution/Explorations Requirements		**31-38**

Business-Specific Requirements

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 [1]	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
Total Business-Specific Requirements		**33**

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 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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Medford 541-245-7527
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TTY . . . . . Oregon Telecom Relay Service, 711

Business
Associate of Science
Oregon Transfer Degree

About the Program

The statewide Associate of Science Oregon Transfer degree in Business is designed for students transferring to baccalaureate degree programs as business majors. Those completing the ASOT–Business degree are assured junior level standing for registration purposes and will have met the lower division general education requirements of any Oregon public university. Grade point average requirements for entry into the university's major are not necessarily satisfied by the ASOT – Business degree. Students should be aware that if they transfer before completing this degree, courses will be evaluated individually toward the general education requirements of the college of their choice.

Program Learning Outcomes

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

Business Ethics: Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

Communication/Information Literacy: Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience and situation.

Critical Evaluation/Decision Making: Demonstrate critical thinking and problem-solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

Interpersonal Skills: Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department chair's approval. In order to ensure coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward course requirements.

Graduation Requirements

Students must complete a minimum of 90 term credits of lower division collegiate courses with a minimum grade of "C" or better.

General Requirements 27-30

Course No.	Course Title	Credits
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**
COMM100	Basic Communication [1]	3
COMM111	Fundamentals of Public Speaking	4
COMM115	Intercultural Communication [1, 2]	4
COMM218	Interpersonal Communication	4
Mathematics (three courses required)		**12-14**

Students should consult university-specific information to determine any additional mathematics requirements.

MTH243	Probability and Statistics	4

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		**38-48**

(must include one course from any discipline that meets the statewide criteria for cultural literacy – see catalog for details)

Humanities (9-12 credits)

Choose three courses from at least two disciplines/prefixes. Courses must be at least 3 credits each and exclude first-year world language courses; second-year world language is acceptable; American Sign Language is considered a world language (see catalog for approved list of humanities electives).

Social Science (14-16 credits)

Complete four courses from the following list:

ECON201	Principles of Microeconomics	4
ECON202	Principles of Macroeconomics	4
—	Approved social science elective (see catalog for approved list of social science electives)	6-8

Science (15-20 credits)

Complete four courses from at least two disciplines/prefixes from the following list, three of which must be lab courses.

BI100GB	Introductory Biology (non-lab course)	3
BI100SB	Biology of Human Body Systems (non-lab course)	3
BI101,102,103	Introduction to Biology I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM106	Introductory Biochemistry with lab	4
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
G100	Fundamentals of Geology (non-lab course)	3
G101,102,103	Introduction to Geology with lab	4-4-4
GS104	Physical Science with lab	4
GS106	Physical Science: Earth Science with lab	4
GS107	Physical Science: Astronomy with lab	4

GS108	Physical Science: Oceanography with lab	4
PH201,202,203	General Physics, I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

Business-specific Requirements (minimum of 20 credits)

BA101	Introduction to Business [3]	4
BA211	Financial Accounting I	4
BA212	Financial Accounting II [4]	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] COMM100 and COMM115 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 completed BA101 as a 3 credit course have met this requirement.

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

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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).

Program Learning Outcomes

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

Business Ethics: Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team oriented business environment.

Communication/Information Literacy: Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

Critical Evaluation/Decision Making: Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

Interpersonal Skills: Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. College Now credit will be accepted in accordance with the current articulation agreement.

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

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
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-12**

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
CIS125WW	Word Processing Applications (Word)	3
LIB127	Introduction to Academic Research	1
Total Required Core Credits		**39**

Students enrolled in the Business Assistant program must select one of the following specialties:

Accounting Assistant Specialty Track

Course No.	Course Title	Credits
BA177	Payroll and Tax	3
BA212	Financial Accounting II [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
BT105	Business Ethics	3
BT111	Conflict Management	2
——	Approved program electives	2-4
		11-13

Assistant Manager Specialty Track

Course No.	Course Title	Credits
BA206	Management Fundamentals	3
BA226	Business Law	4
BT102	Introduction to Supervision	3
——	Approved program electives	2-4
		12-14
TOTAL PROGRAM CREDITS		**50-53**

Approved Program Electives

(2-4 credits required for Administrative Support Specialty and for the Assistant Manager Specialty)

Course No.	Course Title	Credits
BA199	Special Studies in Business	variable
BA206	Management Fundamentals	3
BA212	Financial Accounting II [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 CIS125 application class not taken to fulfill core or specialty requirements	1-4
ECON115	Introduction to Economics	3
WR110	Understanding English Grammar	2
——	Any world language	4

[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.

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Business Assistant: Business and Information Specialist

Career Pathway Certificate

About the Program

The Business and Information Specialist Career Pathway three-term certificate prepares students for entry-level office positions requiring "soft skills" in dealing with clients, customers, vendors and the public, as well as filing, records management, computer applications, and basic written communication duties. Courses included in this pathway can be applied toward completion of the one-year Business Assistant certificate and the Associate of Applied Science in Business Technology degree.

Program Learning Outcomes

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

Business Ethics: Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

Communication/Information Literacy: Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

Critical Evaluation/Decision Making: Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

Interpersonal Skills: Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. High school College Now credit will be accepted in accordance with the current articulation agreement.

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

Completion Requirements

Students 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
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-12**

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
CIS125WW	Word Processing Applications	3
TOTAL PROGRAM CREDITS		**31**

[1] Students who have successfully completed the 3-credit version of CIS125SS 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.

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Business Assistant: Customer Service
Career Pathway Certificate

About the Program

The Customer Service Career Pathway three-term certificate prepares students for entry-level customer service positions in a variety of fields where the ability to effectively deal with the public is required. Courses included in this pathway can be applied toward completion of the one-year Business Assistant certificate and the Associate of Applied Science in Business Technology degree.

Program Learning Outcomes

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

Business Ethics: Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

Communication/Information Literacy: Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

Critical Evaluation/Decision Making: Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

Interpersonal Skills: Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. High school College Now credit will be accepted in accordance with the current articulation agreement.

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

Completion Requirements

Students 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
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-12**

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.

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Business Assistant: Retail Sales and Service
Career Pathway 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.

Program Learning Outcomes

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

Business Ethics: Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

Communication/Information Literacy: Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

Critical Evaluation/Decision Making: Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

Interpersonal Skills: Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. High

school College Now credit will be accepted in accordance with the current articulation agreement.

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

Completion Requirements

Students 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
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-12**

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.

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Business Assistant: Small Business Management

Career Pathway 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.

Program Learning Outcomes

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

Business Ethics: Demonstrate knowledge of ethical, legal, and socially responsible business behavior, while maintaining high levels of personal and professional integrity in today's rapidly changing multi-cultural, team-oriented business environment.

Communication/Information Literacy: Develop and deliver professional oral and written communications (using technology) that are appropriate to the topic, audience, and situation.

Critical Evaluation/Decision Making: Demonstrate critical thinking and problem solving skills by identifying, understanding, and applying basic theories, terminology, and practices related to each functional area of business.

Interpersonal Skills: Develop the interpersonal ("soft") skills necessary to build and maintain effective working relationships with internal and external business stakeholders.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Business Technology Department chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. High school College Now credit will be accepted in accordance with the current articulation agreement.

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

Completion Requirements

Students 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
MTH20	Pre-algebra or designated placement 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 score	0-8
Total Prerequisite Credits		**0-12**

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

Computer class, 1980s

ALLIED HEALTH

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.

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.

Develop 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. Gain awareness of current issues and trends within the healthcare industry as well as the knowledge to locate current information concerning these topics.

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.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

It is important that students work closely with an adviser to select courses appropriate to their career goals. Students who are enrolled in the Basic Health Care certificate are not given advanced placement into limited-entry programs described in the specialty tracks. Some tracks have limits and restrictions that could impede placement.

Advanced Standing

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

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math or designated placement 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 score	0-8
Total Prerequisite Credits		**0-14**

Required Courses

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
BI100SB	Biology of Human Body Systems [1]	3
CG155	Exploring Careers in Health Care [2] or BT101 Human Relations in Organizations or PSY101 Psychology of Human Relations	3
HCI120	Introduction to Health Care Industry [2]	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
COMM111	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

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 [1, 3] (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 [3]	3
MT101	Asian Bodywork I [3]	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
COMM100	Basic Communication	3
SRV101	Service Learning	1
WR110	Understanding English Grammar	2

Nursing 1 (Choose 8 credits)

BI211	General Biology I with lab	4
COMM111	Fundamentals of Public Speaking	4
NFM225	Nutrition	4
PSY201	General Psychology I	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] 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.

[2] Corequisite: WR115.

[3] 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

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.

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.

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 to accomplish health care office tasks.

Store, retrieve, distribute, and manage information and supplies as per clinic protocol.

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 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.

Entry Requirements

This is a competitive-entry program because of limited clinical space in medical offices as well as the delicate balance of job opportunities in medical administrative assisting. Enrollment is limited.

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Cohort students must meet certain minimum academic requirements (MTH20 and RD90/WR90 or WR91 or designated placement scores) before starting the program. Students must complete specific health and immunization requirements and background check prior to starting the program, and a drug screen prior to starting practicum experience. This screening process has an associated fee. Contact the Allied Health Department for more information. Visit www.roguecc.edu/alliedhealth/maa for program application details.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the program coordinator's recommendation. In order to ensure coursework is current, program courses over seven years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. College Now credit earned in conjunction with local high schools will be accepted in accordance with the current agreement.

Graduation Requirements

These requirements apply only to students admitted to the program during the current academic year. Students contemplating admission in a later year may have different requirements and must obtain the graduation guide or catalog for that year. Students must complete all courses on this graduation guide with a grade of "C" or better to continue in and complete the program and receive their certificates. If certain required courses are graded only on a pass/no pass basis, a grade of "P" for these courses indicate a student earned the equivalent of a "C" or better grade.

Prerequisites

Course No.	Course Title	Credits
BT113	Business English I or WR115 Introduction to Expository Writing or higher level composition or designated placement score	0-4
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2

HE252	First Aid/CPR or HE112 Emergency First Aid [1] and HE261 CPR/Basic Life Support Provider	2-3
MTH20	Pre-algebra I or designated placement score	0-4
Total Prerequisite Credits		**2-13**

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
BA109	Ready, Set, Work: Techniques for Landing a Job	2
MAA150	Medical Administrative Assistant Practicum and Seminar	1
——	Approved program elective(s)	0-4
		12-16
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
AH170MAA	Medical Administrative Assistant Practicum	2
		12
TOTAL PROGRAM CREDITS		**24-28**

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
COMM100	Basic Communication	3
EMS165	Introduction to Pharmacology for Health Occupations	2
HCI120	Introduction to the Health Care Industry	3
SPAN101,102,103	First Year Spanish I, II, III	4-4-4
SRV101	Service Learning	1
WR110	Understanding English Grammar	2

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

[2] Additional prerequisites may apply.

For more information regarding the program and selection process, contact the Allied Health Occupations Department:

Grants Pass or Medford. 541-245-7560
Toll free in Oregon . . . . . 800-460-6766, Ext. 7560
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 screening. Other duties may include point of care testing, phlebotomy and specimen collection. Medical assistants are responsible for recording patient information into the electronic medical records systems and must be able to master various computer software programs.

Successful completion of this three-term program prepares students to be eligible for the Certified Medical Assistant (CCMA) exam through the National Healthcareer Association (NHA), or other national medical assisting accrediting agencies, and the American Society of Clinical Pathologists (ASCP) phlebotomy certification exam. Since January 2015, most medical practices require medical assistants to have certification. The phlebotomy certification is not required but will strongly improve employability. The curriculum for the program is based on the standards and guidelines for the CMA and ASCP phlebotomy certifications, which can be reviewed on the following websites: NHA www.nhanow.com and ASCP www.ascp.org/. Students attend classes within a cohort structure, and courses are offered during the daytime or evening based on initial application preference and availability.

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:

Perform and document routine administrative procedures according to current office protocol.

Collect, process, and test diagnostic specimens.

Maintain industry standards of quality control and safety principles in the workplace.

Uphold legal and ethical standards and confidentiality for patient privacy.

Effectively apply verbal, nonverbal, and written communication principles and skills in the workplace.

Demonstrate professionalism through acceptable attitude, organization and time management skills, and attire.

Students may opt to continue their education by transferring to Oregon Tech for a bachelor's degree in Healthcare Management with a clinical option or by completing additional requirements and applying to the Nursing program at either RCC or Oregon Health and Science University.

Entry Requirements/Application Process

This is a competitive-entry program because of limited clinical space in medical offices as well as the delicate balance of job opportunities in medical assisting. Enrollment is limited. Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success. Cohort students must meet certain minimum academic requirements before the program start date.

Program admission occurs two times per year. Visit www.roguecc.edu/alliedhealth/ma for program application details. Students must complete specific health and immunization requirements and background check prior to starting the program, and a drug screen prior to starting practicum experience. This screening process has an associated fee. Contact the Allied Health Department for more information.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the program coordinator's recommendation. In order to ensure coursework is current, program courses over seven years old must be reviewed and approved by the appropriate department coordinator before being accepted toward core requirements. College Now credit earned in conjunction with local high schools will be accepted in accordance with the current agreement.

Graduation Requirements

These requirements apply only to Medical Assistant students admitted to the program during the current academic year. The program of study, graduation requirements, and courses are under constant review and are subject to revision. Students contemplating admission in a later year may have different requirements and must obtain the graduation guide or catalog for that year. Students must complete all courses on this graduation guide with a grade of "C" or better to continue in and complete the program and receive their certificates. If certain required courses are graded only on a pass/no pass basis, a grade of "P" for these courses indicate a student earned a the equivalent of a "C" or better grade.

Prerequisites to Cohort Acceptance

Course No.	Course Title	Credits
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations [1]	3
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
HE252	First Aid/CPR or HE112 Emergency First Aid [1,2] and HE261 CPR/Basic Life Support Provider	2-3
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I [1]	4
WR115	Introductory to Expository Writing or BT113 Business English I 1 or higher level composition class	3-4
Total Prerequisite to Cohort Credits		**12-16**

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
MA150	Medical Assistant pre-Practicum and Seminar	1
		15
Second Term		
AH103	Medical Assistant III: Specialty	3
AH104	Phlebotomy	3
AH105	Communication and Professional Behavior	2
AH110	Medical Terminology: Clinical	3
AH170MAP	Medical Assistant Practicum I	4
		15
Third Term		
AH171MAP	Medical Assistant II	8
EMS160	Electrocardiogram (ECG) Interpretation	2
EMS165	Introduction to Pharmacology for Health Occupations	2
——	Approved program elective(s)	3
		15
TOTAL PROGRAM CREDITS		**45**

Approved Program Electives

(3 credits required):

Course No.	Course Title	Credits
AH170PHL	Phlebotomy Practicum	2
BT111	Conflict Management	2
CG144	Introduction to Assertiveness	1
CG155	Exploring Careers in Health Care	3
COMM100	Basic Communication	3
HCI120	Introduction to the Health Care Industry	3
PRX64	Pharmacy Calculations	2
SRV101	Service Learning	1

[1] Required for graduation.

[2] American Heart Association (AHA) certification must remain current for the duration of the program.[3]

[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 Department:

Grants Pass or Medford 541-245-7560
Toll free in Oregon . . . . . 800-460-6766, Ext. 7560
email . . . . . alliedhealth@roguecc.edu
Web address . . . . . www.roguecc.edu/AlliedHealth/MA
TTY . . . . . Oregon Telecom Relay Service, 711

Pharmacy Technician
Certificate of Completion

About the Program

The Pharmacy Technician two-term certificate program prepares students for work in entry-level positions in hospitals and retail pharmacy settings. Students will learn to prepare prescription orders under the supervision of a licensed pharmacist, perform applicable pharmacy calculations, and comply with federal and state regulatory agency laws and regulations. Upon completion of this program students will be able to perform all the duties required in any pharmacy practice setting. Students completing this program will be prepared to take the national Certified Pharmacy Technician (CPhT) exam.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Pharmacy Technician Certificate 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 while maintaining industry standards of quality control and safety principles in the workplace.

Perform accurate pharmacy calculations and proficiently apply computer skills, record keeping and billing in adherence to applicable industry regulations.

Apply verbal, nonverbal, and written communication principles and skills effectively and compassionately within a team setting.

Uphold legal and ethical standards and adhere to principles of patient confidentiality within the health care and community environment as defined by HIPAA.

Maintain industry standards of quality control and safety principles in the workplace.

Demonstrate professionalism through acceptable attitude, organization and time management skills, and attire.

Prepare for the national pharmacy technician certification and licensure as required by state of Oregon regulations.

Entry Requirements

This is a competitive-entry, cohort-based program because of limited space in both hospital and retail pharmacies, as well as the delicate balance of job opportunities in this field. Enrollment is limited.

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Cohort students must meet certain minimum academic requirements (AH100, BT113 or WR115 or designated placement score, CIS120 or documented proficiency, MTH60 or MTH63 or designated placement score), before starting the program. Students must complete specific health and immunization requirements and a background check prior to starting the program, and a drug screen prior to starting practicum experience. This screening process has an associated fee. Contact the Allied Health Department for more information. Visit www.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
AAH100	Medical Terminology: Introduction 1	3
BT113	Business English I or	
	WR115 Introductory to Expository Writing or designated placement score	0-4
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH60	Fundamentals of Algebra I or	
	MTH63 Applied Algebra I or designated placement score	0-4
Total Prerequisite Credits		**3-13**

Required Courses

Course No.	Course Title	Credits
First Term		
BI100SB	Biology of Human Systems [2]	3
HCI120	Introduction to the Health Care Industry	3
HE252	First Aid/CPR or	
	HE112 Emergency First Aid and	
	HE261 CPR/Basic Life Support Provider [2]	2-3
PRX100	Occupational Safety	2
PRX101	Pharmacy Technician I	4
PRX150	Introduction to Practicum and Seminar	1
		15-16
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
PRX64	Pharmacy Calculations	2
PRX102	Pharmacy Technician II	4
PRX123	Law and Ethical Issues for Pharmacy Technicians	2
PRX170	Pharmacy Technician pre-Practicum and Seminar	2
		16
TOTAL PROGRAM CREDITS		**31-32**

[1] Required for graduation.

[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. 541-245-7560
Toll free in Oregon . . . . . 800-460-6766, Ext. 7560
email . . . . . alliedhealth@roguecc.edu
Web address . . . . . www.roguecc.edu/alliedhealth/prx
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.

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.

Work independently in a team of sterile processing technicians to collaborate in maintaining sterilization and storage.

Effectively apply verbal, nonverbal, and written communication principles and skills in the workplace.

Maintain industry standards of quality control and safety principles in the workplace.

Uphold legal and ethical standards and adhere to principles of patient confidentiality within the health care community environment as defined by HIPAA.

Entry Requirements

This is a competitive-entry, cohort-based program because of limited clinical space as well as the delicate balance of job opportunities in this field. Enrollment is limited.

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Cohort students must meet certain minimum academic requirements (BT113 or WR115 or designated placement score, CS120 or documented proficiency, and MTH60 or MTH63 or designated placement score) before starting the program. Students must complete specific health and immunization requirements and a background check prior to starting the program, and a drug screen prior to starting the practicum experience. This screening process has an associated fee. Please visit www.roguecc.edu/alliedhealth/spt for program application details.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the program coordinator's recommendation. In order to ensure coursework is current, program courses over seven years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. College Now credit earned in conjunction with local high schools will be accepted in accordance with the current agreement.

Graduation Requirements

These requirements apply only to students admitted to the program during the current academic year. Students contemplating admission in a later year may have different requirements and must obtain the graduation guide or catalog for that year. Students must complete all courses on this graduation guide with a grade of "C" or better to continue in and complete the program and receive their certificates. If certain required courses are graded only on a pass/no pass basis, a grade of "P" for these courses indicate a student earned the equivalent of a "C" or better grade.

Prerequisites

Course No.	Course Title	Credits
BT113	Business English I or	
	WR115 Introductory to Expository Writing or designated placement score	0-4
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH60	Fundamentals of Algebra I or	
	MTH63 Applied Algebra I or designated placement score	0-4
Total Prerequisite Credits		**0-10**

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 [1]	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 [2]	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 [3]

(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
COMM100	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] American Heart Association (AHA) Certification must remain current for the duration of the program.

[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.

[3] 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/spt
TTY . . . . . Oregon Telecom Relay Service, 711

Medical Assistant: Phlebotomy
Career Pathway Certificate

About the Program

The phlebotomy program is a one-term program that prepares students to become licensed phlebotomists. Phlebotomists use proper prioritization procedures and coordinate collection of all phlebotomy specimens with other lab personnel. They must consistently provide phlebotomy services appropriate to the age and condition of patients to minimize re-draws (i.e., proper amounts, correct samples) and must strictly adhere to patient identification protocols as specified by regulatory requirements. This includes demonstrating knowledge of all patient safety precautions such as isolations and safety devices. In this role, it is important to use independent judgment in following established venipuncture procedures along with the ability to inspire confidence in, and communicate effectively with, unit secretaries, therapists, medical staff and visitors. This means demonstrating composure and organizational skills in handling crisis situations and effectively handling multiple tasks simultaneously in times of heavy workload.

Classes will be delivered in the evening and online. Successful completion of the program prepares students to sit for the National Healthcareer Association (NHA) phlebotomy certification exam. Students do not automatically become certified through this program but may take the appropriate tests through NHA after completing the program. The curriculum was written using the standards and guidelines for the NHA phlebotomy certifications and can be reviewed at www.hanow.com.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Medical Assistant: Phlebotomy Career Pathway Certificate program are:

Draw blood from patients in preparation for medical testing in a variety of medical settings.

Demonstrate workplace skills of attention to detail, manual dexterity, work under pressure, and show excellent communication and interpersonal skills.

Prepare to take the NHA Phlebotomy exam.

Entry Requirements/Application Process

Program admission occurs once per year. Visit www.roguecc.edu/alliedhealth for program application details. All program prerequisite/preparatory courses must be completed with a grade of "C" or better by the start of the program to be considered eligible. All applications will be date stamped and reviewed in the order received. Applicants will be selected by committee on criteria developed in advance.

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the program coordinator's recommendation. In order to ensure coursework is current, program courses over seven years old must be reviewed and approved by the appropriate coordinator before being accepted toward core requirements. College Now credit earned in conjunction with local high schools will be accepted in accordance with the current agreement.

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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
HE252	First Aid/CPR or HE112 Emergency First Aid [1] and HE261 CPR/Basic Life Support Provider	2-3
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement score	0-8
Total Prerequisite Credits		**2-13**

Required Core Courses

Course No.	Course Title	Credits
First Term		
AH100	Medical Terminology: Introduction	3
AH104	Phlebotomy	3
AH105	Communication and Professional Behavior	2
AH170PHL	Phlebotomy Practicum	2
BI100SB	Biology of Human Body Systems [2]	3
TOTAL PROGRAM CREDITS		**13**

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

[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 Department:

Grants Pass or Medford. 541-245-7560
Toll free in Oregon . . . . . 800-460-6766, Ext. 7560
email . . . . . alliedhealth@roguecc.edu
Web address . . . . . www.roguecc.edu/phlebotomy
TTY . . . . . Oregon Telecom Relay Service, 711

COMPUTER SCIENCE

Health Informatics - Transfer to Oregon Tech

Associate of Science Degree

About the Program

This Associate of Science (AS) degree is based on a signed articulation agreement with Oregon Tech. The program is designed for students transferring to its baccalaureate degree program in Information Technology/Health Informatics Option. Students must work closely with advisors in their areas of interest to ensure electives are appropriate. The curriculum allows for 48 core credits within the major area. By completing all appropriate credits (including electives), students will fulfill required lower division coursework for transfer to Oregon Tech.

Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the transfer requirements of the college of their choice.

Program Learning Outcome

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. The program learning outcome for the Health Informatics - Transfer to Oregon Tech degree is:

Demonstrate the knowledge, techniques, skills, and modern tools of the discipline to defined health systems technology.

Ability to design and implement health systems using the last technology and standard best practices.

Ability to function effectively as a member of a technical team.

Ability to identify, analyze, and solve technical issues with the use of health systems and technology.

Ability to demonstrate written, oral, and graphical communication in both technical and non-technical; and an ability to identify and use appropriate technical literature.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH95	Intermediate Algebra or designated placement score	0-4
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits:		**0-9**

General Education Requirements

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
BI102	Introduction to Biology II with lab	4
COMM111	Fundamentals of Public Speaking	4
ECON201	Principles of Microeconomics	4
ECON202	Principles of Macroeconomics	4
LIB127	Introduction to Academic Research	1
MTH111	College Algebra	4
PSY202	General Psychology II	4
WR121	English Composition I	4
WR122	English Composition II	4
WR227	Technical Writing	4
	Approved humanities electives [1]	9-12
Total General Education Requirements		**49-52**

Core Requirements

Course No.	Course Title	Credits
BA206	Management Fundamentals	3
BA211	Financial Accounting I	4
BA212	Financial Accounting II	4
BA213	Managerial Accounting	4
BA223	Principles of Marketing	3
CIS125DB	Data Base Management Systems	3
CIS125SS	Spreadsheet Applications or BA285 Advanced Business Applications: Excel	4
CIS140	Operating Systems	4

CIS179	Introduction to Networks	4
CIS227	PC Hardware Fundamentals and Repair	3
CS133C#	Programming Fundamentals Using C#	4
CS275	Data Base Development I	4
Total Core Credits		**44**
TOTAL PROGRAM CREDITS		**93-98**

[1] Approved Humanities Electives

(Complete at least three courses from the following list, 9-12 credits. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design (Composition/Color Theory)	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

For more information contact the Computer Science Department:

Grants Pass 541-956-7213
Medford 541-245-7527
Toll free in Oregon . . . . . 800-411-6508, Ext. 7213 or Ext. 7527
email . . . . . cs@roguecc.edu
Web address . . . . . www.roguecc.edu/cs
TTY . . . . . Oregon Telecom Relay Service, 711

CRIMINAL JUSTICE

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 complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. A Criminal Justice program advisor must provide advising and approval of a student's program prior to registration. In addition, students may also be required to enroll in classes that would increase their employability and success.

Prospective students should be aware of entry requirements of criminal justice agencies prior to considering criminal justice fields as career choices. Conditions such as impaired hearing and/or eyesight, impaired physical agility, or a criminal history may preclude employment in some agencies. Students should discuss their individual circumstances with advisors and determine if any issues might preclude employment in the field.

Advanced Standing

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

Reserve Officer Law Enforcement Academy

The Criminal Justice Associate of Applied Science Degree offers a limited number of students the option of enrolling in the Reserve Officer Law Enforcement Academy (ROLEA) and applying credits to degree requirements. The ROLEA option is available to Criminal Justice students and does not require agency sponsorship. Students must apply for admission into ROLEA. Contact faculty in the Criminal Justice Department for more information.

Graduation Requirements

Students must successfully complete the credits in this program with a grade of "C" or better to receive their degrees. Certain 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 score	0-4
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits		**0-9**

Required Courses

Course No.	Course Title	Credits
CJ100	Foundations and Ethics in Criminal Justice	4
CJ110	Introduction to Law Enforcement (ROLEA credits may besubstituted with advisor approval)	4
CJ120	Introduction to Judicial Process	4
CJ130	Introduction to Corrections	4
CJ200/SOC244	Introduction to Criminology	4
CJ201/SOC221	Juvenile Delinquency	4
CJ214	Crime, Justice and Diversity	4
CJ220	Substantive Law and Liability (ROLEA credits may be substituted with advisor approval)	4
CJ221	Constitutional Criminal Procedure	4
CJ223	Evidence and Trial Process	4
CJ270	Capstone Project in Criminal Justice	4
CJ280	Cooperative Work Experience/Criminal Justice (ROLEA credits may be substituted with advisor approval)	4
COMM111	Fundamentals of Public Speaking or COMM218 Interpersonal Communication	4
HE112	Emergency First Aid or HE261 CPR/Basic Life Support Provider (ROLEA credits may be substituted with advisor approval)	1
LIB127	Introduction to Library Research Methods	1
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
PSY101	Psychology of Human Relations [2] or BT101 Human Relations in Organizations	3
PSY201	General Psychology I	4
WR121	English Composition I	4
_____	Approved social science elective (see this catalog for approved list of electives)	9-12
_____	Approved program elective [3]	12
TOTAL PROGRAM CREDITS		**90-93**

[1] Required for graduation.

[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

(12 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
BA214	Business Communications	4
BA226	Business Law	4
BT111	Conflict Management	2
CJ191	ROLEA Module 1	4
CJ192	ROLEA Module 2	4
CJ193	ROLEA Module 3	4
CJ194	ROLEA Module 4	4
CJ195	ROLEA Module 5	4
CJ196	ROLEA Module 6	4
CJ197	ROLEA Module 7	4
CJ198	ROLEA Module 8	4
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
ES205	Crisis Management	3
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

Criminal Justice Experience and Inservice Training

Up to 18 credits may be applied to the Criminal Justice AAS degree program for students that have completed certified law enforcement or corrections academies, and inservice training in criminal justice fields in recognition of career experiences. See a program advisor for more information.

For more information contact the Criminal Justice Department:

Grants Pass or Medford. 541-245-7965
Toll free in Oregon . . . . . 800-411-6508, Ext. 7965
email . . . . . criminaljustice@roguecc·edu
Web address . . . . . www·roguecc·edu/criminaljustice
TTY . . . . . Oregon Telecom Relay Service· 711

Criminal Justice Transfer to Southern Oregon University

Associate of Science Degree

Final articulation agreement pending at time of catalog print. See program advisor for updated information.

About the Program

This Associate of Science degree has been developed with the cooperation and support of Southern Oregon University (SOU). The degree is fully articulated with SOU's Criminal Justice program and allows students to transfer directly to SOU without loss of credits to pursue a bachelor's degree. The program offers an excellent balance of criminal justice and liberal education courses that support advanced study in criminal justice.

Students should contact the SOU Criminal Justice Department early in the first year of the program to be advised about additional requirements and procedures for admission to SOU. Students transferring to SOU will be required to complete CCJ198 Orientation to the SOU Criminal Justice Major at SOU during the first term. For more information contact Tanya Blakeley at 541-552-8095 or your RCC advisor.

Program Learning Outcomes

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

Integrate and apply acquired knowledge and skills related to justice administration systems, crime control policy, theory, law, and technology to effectively manage and control problems related to crime and public safety in jurisdictions of employment.

Work in teams and in collaborative environments with stakeholders in communities of interest to develop solutions to problems of crime and public safety within those communities of interest.

Apply a strong ethic of public service, personal, and professional growth, in their respective roles to include a commitment to apply culturally sensitive strategies of communication and problem-solving in the process.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

A Criminal Justice program advisor must provide advising and approval of a student's program prior to registration.

Prospective students should be aware of entry requirements of criminal justice agencies prior to considering criminal justice fields as a career choice. Conditions such as impaired hearing and/or eyesight, impaired physical agility, or a criminal history may preclude employment in some agencies. Students should discuss their individual circumstances with advisors and determine if any issues might preclude employment in the field.

Advanced Standing

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

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH95	Intermediate Algebra or MTH96 Applied Algebra II or designated placement score	0-4
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits		**0-9**

General Education Requirements

Course No.	Course Title	Credits
COMM225	Small Group Communication and Problem-solving or COMM111 Fundamentals of Public Speaking or COMM218 Interpersonal Communication	4
LIB127	Introduction to Academic Research	1
MTH243	Probability and Statistics	4
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 [1]	9-12
——	Approved lab science electives [2]	8-10
——	Approved science elective [2]	4
Total General Education Credits		**46-51**

Required Core Courses

Course No.	Course Title	Credits
CJ100	Foundations and Ethics in Criminal Justice	4
CJ110	Introduction to Law Enforcement	4
CJ120	Introduction to the Judicial Process	4
CJ130	Introduction to Corrections	4
CJ200/SOC244	Introduction to Criminology	4
CJ201/SOC221	Juvenile Delinquency	4
CJ214	Crime, Justice and Diversity	4
CJ220	Substantive Law and Liability	4
CJ221	Constitutional Criminal Procedure	4
CJ223	Evidence and Trial Process	4
CJ270	Capstone Project in Criminal Justice	4
Total Core Credits		**44**
TOTAL PROGRAM CREDITS		**90-95**

[1] Approved Humanities Electives

(complete at least three courses from the following list, 9-12 credits)

Course No.	Course Title	Credits
ART131	Introduction to Drawing	3
ENG253,254,255	Survey of American Literature	4-4-4
MUS105	Music Appreciation	3
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS264,265,266	History of Rock I, II, III	3-3-3

[2] Approved Science Electives

(Complete at least three courses – two of which must have labs – from the following list, 11-15 credits; a three-term lab science sequence is recommended for transfer but not required. Note that only one course can be a regional field studies course indicated by asterisk.)

Course No.	Course Title	Credits
BI100GB	Introductory Biology (non-lab course)	3
BI100SB	Biology of Human Body Systems (non-lab course)	3
BI101,102,103	Introduction to Biology with lab I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM105	Introductory Organic Chemistry with lab	4
CHEM106	Introductory Biochemistry with lab	4
CIS195	Web Authoring I (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
GS104,106,107,108	Physical Science with lab	4-4-4-4
GS170 *	Regional Field Studies with lab	4

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 ASSISTING

Dental Assistant
Certificate of Completion

About the Program

This four-term certificate program prepares students to meet the requirements to become dental assistants with expanded functions (EFDA). Successful completion of the program leads to eligibility to sit for the Dental Assisting National Board's (DANB) certified dental assisting (CDA) exam. The curriculum is based in general dentistry; students are trained in four-handed chair-side assisting techniques to work with general dentists during all phases of patient examination and treatment.

Program students attend classes as part of a structured cohort that begins each year in summer term. Students should apply early as the required mandatory orientation is scheduled several months prior to the summer start. Note: Students may still be working on prerequisites to cohort acceptance classes when applying.

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 administrative office skills.

Demonstrate occupational safety skills.

Demonstrate general chair-side and laboratory sciences skills.

Demonstrate fluency and competency dealing with legal and ethical issues.

Demonstrate radiographic proficiencies.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

This is a limited-entry program. Cohort students must meet certain minimum academic requirements (MTH20, RD90 and WR90, or WR91) before the program application due date. All listed program prerequisites must be satisfactorily completed before beginning the cohort.

Selection Process

All applications will be date stamped and reviewed in the order received. Applicants will be selected by committee. The screening process includes a mandatory information session and an interview. A criminal background check and drug screening will be required for all students. 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 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 score	0-8
Total Prerequisite Credits		**0-12**

Prerequisites to Cohort Acceptance [1]

Course No.	Course Title	Credit
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
BT113	Business English I or WR115 Introduction to Expository Writing or higher level composition class [2]	3-4
COMM100	Basic Communication or COMM111 Fundamentals of Public Speaking or COMM218 Interpersonal Communication	3-4
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or BT160 Business Math or higher level math	4
Total Prerequisite to Cohort Credits		**13-17**

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
DA101L	Dental Assisting I Lab	1
DA202	Infection Control	2
HE252	First Aid/CPR 1 or HE112 Emergency First Aid and HE261 CPR/Basic Life Support Provider	2-3
		14-15
Second Term (Fall)		
DA102	Dental Assisting II	4
DA102L	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
DA152P	Practicum in Dental Assisting I	3
DA152S	Seminar in Dental Assisting I	1
DA201L	Radiology Lab	2
DA203	Chair-side Assisting	2
		12
Fourth Term (Spring)		
DA153P	Practicum in Dental Assisting II	3
DA153S	Seminar in Dental Assisting II	1
DA204	Expanded Functions Dental Assistant	2
DA204L	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
COMM100	Basic Communication (if not taken as prerequisite)	3
COMM111	Fundamentals of Public Speaking (if not taken as prerequisite)	4
COMM218	Interpersonal Communication	4
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
SPAN101,102,103	First Year Spanish I, II, III	4-4-4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
SRV101	Service Learning	1-3
WR110	Understanding English Grammar	2
WR121	English Composition I (if not taken to fulfill writing requirement)	4
WR122	English Composition II	4
WR227	Technical Writing	4
——	Any college-level science course numbered 100 and above	3-5
——	Any health or physical education course	variable

[1] Required for graduation.

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

For more information contact the Dental Assistant program coordinator:

Grants Pass or Medford. 541-245-7750
Toll free in Oregon . . . . . 800-411-6508, Ext. 7750
email . . . . . dental@roguecc.edu
Web address . . . . . www.roguecc.edu/alliedhealth/dental
TTY . . . . . Oregon Telecom Relay Service, 711

EMERGENCY SERVICES

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 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.

Demonstrate workplace expectations regarding attendance, safety, conduct, and professionalism.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

This program requires an application and satisfaction of certain course admission criteria prior to enrolling in paramedic courses. Information is available on the Emergency Services (ES) Department website (www.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 will be required to complete all screening requirements outlined in OAR 409-030-0190 and additional RCC requirements.

Graduation Requirements

Students completing the credits outlined in this program with a grade of "C" or better and successfully certifying at the EMT level, will earn an Associate of Applied Science degree in Paramedicine. Certain required courses may be graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade.

Students are strongly encouraged to meet with an Emergency Services Department advisor prior to beginning any coursework.

Prerequisites

Course No.	Course Title	Credits
BI211	General Biology I with lab [1]	4
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [2]	0-2
MTH63	Applied Algebra I, or MTH60: Fundamentals of Algebra I, or higher level math [2]	4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement score	0-8
Total Prerequisite Credits		**8-18**

First Year Courses

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
COMM100	Basic Communication, or higher level communication	3-4
WR115	Intro to Expository Writing, or BT113, or higher level writing [3]	3-4
ES105	Introduction to Emergency Services	4
ES131	EMT Part I	5
ES131L	EMT Part I Lab	1
ES132	EMT Part II	4
ES132L	EMT Part II Lab	2
ES171	Emergency Vehicle Operations	2
ES205	Crisis Intervention and Management for Emergency Services Workers	3
ES268	Emergency Service Rescue	3
Total First Year Credits		**45-47**

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 45 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.

Paramedic Courses (Second Year)

Course No.	Course Title	Credits
First Term		
EEMS271	Paramedic Part I [4]	8
EMS271L	Paramedic Lab Part I	2
EMS281	Paramedic Clinical Practice I	2
ES295	Health and Fitness for Emergency Service Workers or HPE295 Health and Fitness For Life	3
LIB127	Introduction to Academic Research [4 1]	16
Second Term		
EMS272	Paramedic Part II	8
EMS272L	Paramedic Lab Part II	2
EMS282	Paramedic Clinical Practice II	3
		13
Third Term		
EMS273	Paramedic Part III	7
EMS273L	Paramedic Lab Part III	2
EMS283	Paramedic Clinical Practice III	3
		12
Fourth Term		
EMS284	Paramedic Clinical Practice IV	9
—	Approved program elective	0-3
		9-12
Total Second Year Credits		**50-53**
TOTAL PROGRAM CREDITS		**95-100**

Approved Program Electives

0-3 credits required)

Course No.	Course Title	Credits
AH110	Medical Terminology: Clinical	3
BT102	Introduction to Supervision	3
BT111	Conflict Management	2
CG144	Introduction to Assertiveness	1
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
ES280	Cooperative Work Experience/EMS	1-3
FRP261	Hazardous Materials First Responder Operations	1
FRP285	Fire Instructor I	3
HCI120	Introduction to Healthcare Industry	3
WR110	Understanding English Grammar	2

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] Alternative to Speech and Writing requirements above: 7-8 credits, WR115 and WR121, OR WR115 (or higher) and COMM100, 111, 115, or 218.

[4] LIB127 is a corequisite to EMS271.

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
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.

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 a 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.

Demonstrate workplace expectations regarding attendance, safety, conduct, and professionalism.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

This program requires an application and satisfaction of certain course admission criteria prior to enrolling in the EMT courses (ES131, ES132). Information is available on the Emergency Medical Services (EMS) Department website (www.roguecc.edu/EmergencyServices/EMS) or at the Emergency Services Department office located at the RCC Table Rock Campus. Students are strongly encouraged to meet with an Emergency Services Department advisor prior to beginning any coursework.

Students must be at least 17 years old to apply to the EMT course. Students must be a high school graduate or have a GED or equivalent for certification. In addition, students will be required to complete all screening requirements outlined in OAR 409-030-0190 and additional RCC requirements.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Emergency Services Department chair's recommendation. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the Emergency Services Department chair before being accepted toward core requirements.

Graduation Requirements

Students completing all credits outlined in this program with a grade of "C" or better will earn a certificate in Emergency Medical Services. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade.

Students are strongly encouraged to meet with an Emergency Services Department adviser prior to beginning any coursework.

Prerequisites

Course No.	Course Title	Credits
BI211	General Biology I [1]	4
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [2]	0-2
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math [2]	4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement score	0-8
Total Prerequisite Credits		**8-18**

Required Courses

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
COMM100	Basic Communication, or higher level speech [3]	3-4
ES105	Introduction to Emergency Services	4
ES131	EMT Part I	5
ES131L	EMT Part I Lab	1
ES132	EMT Part II	4
ES132L	EMT Part II Lab	2
ES171	Emergency Vehicle Operation	2
ES205	Crisis Intervention and Management for Emergency Services Workers	3
ES268	Emergency Service Rescue	3
WR115	Intro to Expository Writing, or BT113, or higher level writing [3]	3-4
——	Approved program elective(s)	0-8
TOTAL PROGRAM CREDITS		**45-55**

Approved Program Electives

Course No.	Course Title	Credits
AH110	Medical Terminology: Clinical	3
BT102	Introduction to Supervision	3
BT111	Conflict Management	2
CG144	Introduction to Assertiveness	1
EMS160	Electrocardiogram (ECG) Interpretation	2
EMS165	Introduction to Pharmacology for Health Occupations	2
ES280	Cooperative Work Experience/Emergency Services	1-3
ES295	Health and Fitness for Emergency Services Workers	3
FRP261	Hazardous Materials First Responder Operations	1
FRP285	Fire Instructor I	3
HCI120	Introduction to the Health Care Industry	3
HPE295	Health and Fitness for Life	3
WR110	Understanding English Grammar	2

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

[2] Required for graduation.

[3] Alternative to Speech and Writing requirements above: 7-8 credits, WR115 and WR121, or WR115 (or higher) and COMM100, 111, 115, or 218.

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 Pathway Certificate

About the Program

The Emergency Medical Technician (EMT) two-term pathway certificate offers career training for entry-level personnel in EMT. Successful completion of the EMT course leads to eligibility to sit for the state and National Registry EMT exams. Successful completion of the curriculum leads to a two-term RCC pathway certificate and the ability to apply for positions as an EMT in hospital emergency departments and ambulance services. It is also the minimum requirement for some firefighter positions.

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 workplace expectations regarding attendance, safety, conduct, and professionalism.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

This program requires an application and satisfaction of certain course admission criteria prior to enrolling in the EMT courses (ES131, ES132). Information is available on the Emergency Medical Services (EMS) 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 will be required to complete all screening requirements outlined in OAR 409-030-0190 and additional RCC requirements.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the 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 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 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 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	5
ES131L	EMT Part I Lab	1
ES268	Emergency Service Rescue	3
		13
Second Term		
ES132	EMT Part II	4
ES132L	EMT Part II Lab	2
ES171	Emergency Vehicle Operations	2
ES295	Health and Fitness for Emergency Service Workers or HPE295 Health and Fitness For Life	3
—	Approved program elective(s)	1-8
		12-19
TOTAL CREDITS		**25-32**

Approved Pathway Electives

(1-8 credits allowed)

Course No.	Course Title	Credits
AH100	Medical Terminology	3
BI211	General Biology I	4
COMM111	Fundamentals of Public Speaking or COMM218 Interpersonal Communication	4
EMS160	Electrocardiogram (ECG) Interpretation	2
ES205	Crisis Intervention and Management for Emergency Services Workers	3
FRP261	Hazardous Materials First Responder Operations	1
HCI120	Introduction to the Health Care Industry	3
MTH60	Fundamentals of Algebra I or higher level math	4
MTH63	Applied Algebra I or higher level math	4
WR115	Introduction to Expository Writing	3

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

FIRE SCIENCE

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.

Demonstrate leadership, teamwork and decision making in the management of multiple personnel on emergency scenes.

Describe and use defensive and safe driving techniques and the operation of emergency vehicles and fire pumps.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

The Fire Science program advisor will work with each student to design an individualized sequence of instruction.

Students must be at least 17 years old to apply to the EMT course. Students must be a high school graduate or have a GED or equivalent for certification. In addition, students will be required to complete all screening requirements outlined in OAR 409-030-0190 and additional RCC requirements.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Fire Science program coordinator's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MTH20	Pre-algebra or designated placement score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90/WR90) or designated placement score	0-8
Total Prerequisite Credits		**0-14**

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	5
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
		16
Third Term		
COMM100	Basic Communication or higher level speech [3]	3-4
ES132	EMT Part II	4
ES132L	EMT Part II Lab	2
LIB127	Introduction to Academic Research	1
MTH63	Applied Algebra I or	
	MTH60 Fundamentals of Algebra I or higher level math	4
		14-15
Total First Year Credits		**46-47**

Second Year Required Courses

Course No.	Course Title	Credits
Fourth Term		
ES171	Emergency Vehicle Operations	2
ES268	Emergency Service Rescue	3
ES295	Health and Fitness for Emergency Service Workers or HPE295 Health and Fitness for Life	3
FRP242	Introduction to Codes and Ordinances	3
WR115	Introduction to Expository Writing or	
	BT113 Business English or higher level writing [3]	3-4
		14-15
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]	3-4
		15-16
Sixth Term		
ES205	Crisis Intervention and Management for Emergency Services Workers	3
ES280	Cooperative Work Experience/Fire Science or practicum [4]	0-3
FRP259	Water Supply Operations	3
FRP264	Building Construction for Fire Protection	3
FRP274	Firefighting Strategy and Tactics	3
——	Approved program elective [3]	3-4
		15-19
Total Second Year Credits		**44-50**
TOTAL PROGRAM CREDITS		**90-97**

Approved Program Electives

(a minimum of 6 credits required) [3]

Course No.	Course Title	Credits
BA214	Business Communications	4
FRP199	Workshop: Selected Topic	1-3
FRP211	Hiring Practices in the Fire Service	3
FRP238	Public Education, Relations and Information	3
FRP241	Fire Prevention Inspections	3
FRP243	Introduction to Codes and Ordinances	3
FRP285	Fire Instructor I	3
PS203	United States Government III	3
WR227	Technical Writing	4

[1] Required for graduation.

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

[3] A minimum of 6 total elective credits are required and a maximum of 8 elective credits are allowed.

[4] Students with documented practicum experience need to complete electives to meet the minimum program total requirement.

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.

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.

Demonstrate leadership, teamwork and decision making in the management of multiple personnel on emergency scenes.

Describe and use defensive and safe driving techniques and the operation of emergency vehicles and fire pumps.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

The Fire Science program advisor will work with each student to design an individualized sequence of instruction.

Students must be at least 17 years old to apply to the EMT course. Students must be a high school graduate or have a GED or equivalent for certification. In addition, students will be required to complete all screening requirements outlined in OAR 409-030-0190 and additional RCC requirements .

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Fire Science program coordinator's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
MMTH20	Pre-algebra or designated placement test score	0-4
RD90/WR90	College Reading/Fundamentals of Composition or WR91 Fundamentals of Academic Literacy (WR91 substitutes for both RD90 and WR90) or designated placement score	0-8
Total Prerequisite Credits		**0-12**

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	5
ES131L	EMT Part I Lab	1
FRP233	Firefighter Safety and Survival	3
FRP252	Firefighter Level II	4
		13
Third Term		
ES105	Introduction to Emergency Services	4
ES132	EMT Part II	4
ES132L	EMT Part II Lab	2
ES295	Health and Fitness for Emergency Services	3
		13
TOTAL PROGRAM CREDITS		**38**

[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
Web address . . . . . www.roguecc.edu/emergencyservices
email . . . . . emergencyservicesadvisors@roguecc.edu
TTY . . . . . Oregon Telecom Relay Service, 711

HEALTH AND PHYSICAL EDUCATION

Health and Physical Education Transfer to Southern Oregon University

Associate of Science Degree

Final articulation agreement pending at time of catalog print. See program advisor for updated information.

About the Program

The Associate of Science (AS) degree is based on a signed articulation agreement with Southern Oregon University (SOU). The program is designed for students transferring to SOU's bachelor's degree program in health and physical education. Students must work closely with advisors in their areas of interest to ensure electives are appropriate.

The curriculum allows for 48 core credits within the major area. By completing all appropriate credits (including electives), students will fulfill required lower division coursework for transfer to SOU. Students should be aware, however, that if they transfer before completing this degree, their courses will be evaluated individually toward the transfer requirements of the college of their choice.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Health and Physical Education Transfer to Southern Oregon University degree are:

Document a personal knowledge of demographic health changes and trends in chronic and acute diseases in the U.S. over the last 100 years.

Describe the correlations between nutrition, stress, exercise, healthy living and the human body.

Describe the connections between emotional well-being and physical wellness.

Demonstrate proficient understanding of rules and etiquette for physical activities to encourage lifelong physical engagement in the wellness activity.

Exhibit improvement in skills or body mechanics, and model correct functional movement appropriate to activity to encourage lifelong enjoyment, prevent injury, and respond to emergency situations.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over 3 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C" or better. Certain required courses are also graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade.

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2

MTH95	Intermediate Algebra or designated placement score	0-4
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits		**0-9**

General Education Requirements

Course No.	Course Title	Credits
BI211	General Biology I with lab	4
BI212	General Biology II with lab (highly recommended) or any other science or non-science lower division transfer course	4
COMM225	Small Group Communication and Problem-solving or COMM111 Fundamentals of Public Speaking or COMM218 Interpersonal Communication	4
LIB127	Introduction to Academic Research	1
MTH243	Probability and Statistics	4
NFM225	Nutrition	4
WR121	English Composition I	4
WR122	English Composition II or WR227 Technical Writing	4
——	Approved humanities electives 1	10-12
——	Approved social science electives [2]	3-4
Total General Education Requirements		**42-45**

Core Requirements

Course No.	Course Title	Credits
BI231	Anatomy and Physiology I with lab	4
BI232	Anatomy and Physiology II with lab	4
BI233	Anatomy and Physiology III with lab	4
HE131	Introduction to Exercise and Sport Science	3
HE199	Special Studies in Health or PE199 Special Studies in Physical Education	1
HE208	HIV and Other Epidemics	1
HE250	Personal Health	3
HE252	First Aid/CPR	3
HE253	Wilderness First Aid	3
HE259	Care and Prevention of Athletic Injury	3
HPE295	Health and Fitness for Life	3
PE185	Physical Education	7
PE280	CWE/Physical Education	2
——	Approved program electives [3]	7
Total Core Credits		**48**
TOTAL PROGRAM CREDITS		**90-93**

[1] Approved Humanities Electives

(Complete at least three courses from the following list, 10-12 credits.)

Course No.	Course Title	Credits
ART131	Introduction to Drawing	3
ART204,205,206	History of Art I, II, III	4-4-4
COMM115	Introduction to Intercultural Communication	4
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
IS110	Introduction to International Studies I	4
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141	Fundamentals of Acting	4
WR241,242,243	Imaginative Writing I, II, III	4-4-4

[2] Approved Social Science Electives

(Complete at least one course from the following list, 3-4 credits.)

Course No.	Course Title	Credits
ANTH110,150	Introduction to Cultural Anthropology/Archaeology	4-4
BA101	Introduction to Business	4
BA218	Personal Finance	3
CJ120	Introduction to the Judicial Process	4
CJ200/SOC244	Introduction to Criminology	4
CJ243/SOC243	Drugs, Crime and Addiction	4
COMM237	Communication and Gender	4
ECON115	Introduction to Economics	3
ECON201,202	Principles of Microeconomics/Macroeconomics	4-4
GEOG100	Introduction to Physical Geography	3
GEOG110	Introduction to Cultural and Human Geography	3
GEOG120	World Regional Geography	3
HST104	World Civilizations: Prehistory - Middle Ages	4
HST105	World Civilizations: Byzantium - Present	4
HST201	U.S. History through Reconstruction	4
HST202	U.S. History: Post-Reconstruction - Present	4
PS201,202	U. S. Government I, II	3-3
PSY101	Psychology of Human Relations	3
PSY119	Psychology of Personal Growth	4
PSY201,202	General Psychology I, II	4-4
PSY215	Life Span Human Development	4
PSY219	Introduction to Abnormal Psychology	4
PSY231	Human Sexuality	3
SOC204,205	Introduction to Sociology, American Society	4-4
SOC211	Social Deviance and Social Control	3
SOC213	Race and Ethnicity in the U.S.	4
SOC218	Sociology of Gender	4
SOC225	Social Problems and Solutions	4
SOC228	Environment and Society	4
SOC230	Introduction to Gerontology	4
SOC235/HST259	The Chicano/Latino Historical Experience	4

[3] Approved Program Electives

(Select 7 credits from a related field, not otherwise required within the base program or option area.)

For more information contact the Health/Physical Education/Recreation Department:

Grants Pass 541-956-7140
Medford 541-245-7504
Toll free in Oregon . . . . . 800-411-6508, Ext. 7140 or Ext. 7504
email . . . . . rwchealthpe@roguecc.edu or rvchealthpe@roguecc.edu
Web address . . . . . www.roguecc.edu/HPER
TTY . . . . . Oregon Telecom Relay Service, 711

Outdoor Adventure Leadership Transfer to Southern Oregon University

Associate of Science Degree

Final articulation agreement pending at time of catalog print. See program advisor for updated information.

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 complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C" or better. Certain required courses are also graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade.

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH95	Intermediate Algebra or MTH96 Applied Algebra II or designated placement score	0-4
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits		**0-9**

General Education Requirements

Course No.	Course Title	Credits
COMM225	Small Group Communication and Problem-solving or COMM111 Fundamentals of Public Speaking or COMM218 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 [1]	9-12
——	Approved social science electives [2]	6-8
	Approved science electives [3]	11-15
Total General Education Requirements		**43-52**

Core Requirements

Course No.	Course Title	Credits
ENV111	Introduction to Environmental Science, or GEOG110 Introduction to Cultural and Human Geography, or GEOG120 World Regional Geography	3
HE131	Introduction to Exercise and Sport Science	3
HE253	Wilderness First Aid	3
HE259	Care and Prevention of Athletic Injury	3
HPE295	Health and Fitness for Life	3
NFM225	Nutrition	4
OAL150	Outdoor Living Skills	2
OAL223	Wilderness Navigation	2
OAL250	Foundations in Outdoor Adventure Leadership	3
——	Approved program electives [4]	6-15
Land (choose a minimum of three classes from the following list):		
PE185BAP	Backpacking	1
PE185HKO	Hiking Oregon	1
PE185RCA	Rock Climbing, Adventure	1
PE185RCB	Rock Climbing, Beginning	1
PE185SSS	Snow Skiing/Snowboarding	1
PE185WSA	Winter Survival and Snow Camping	1
PE185ZLG	Zipline Guide Technical Skills	1
Water (choose a minimum of three classes from the following list):		
PE185SKSA	Kayaking the Sea Coast Adventure	1
PE185KWW	Kayaking Whitewater	1
PE185RRV	Rafting the Rive	1
PE185SCU	SCUBA Diving	1
PE185SUA	Surfing Adventure	1
Total Core Credits		**38-47**
TOTAL PROGRAM CREDITS		**90**

[1] Approved Humanities Electives

(Complete at least three courses from the following list, 9-12 credits.)

Course No.	Course Title	Credits
ART131	Introduction to Drawing	3
ART204,205,206	History of Art I, II, III	4-4-4
COMM115	Introduction to Intercultural Communication	4
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4

HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
IS110	Introduction to International Studies I	4
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141	Fundamentals of Acting	4
WR241,242,243	Imaginative Writing I, II, III	4-4-4

[2] Approved Social Science Electives

(Complete at least two courses from the following list, 6-8 credits.)

Course No.	Course Title	Credits
ANTH110,150	Introduction to Cultural Anthropology/Archaeology	4-4
BA101	Introduction to Business	4
BA218	Personal Finance	3
CJ120	Introduction to the Judicial Process	4
CJ200/SOC244	Introduction to Criminology	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
PS201,202	U. S. Government I, II	3-3
PSY101	Psychology of Human Relations	3
PSY119	Psychology of Personal Growth	4
PSY201,202	General Psychology I, II	4-4
PSY215	Life Span Human Development	4
PSY219	Introduction to Abnormal Psychology	4
PSY231	Human Sexuality	3
SOC204,205	Introduction to Sociology, American Society	4-4
SOC211	Social Deviance and Social Control	3
SOC213	Race and Ethnicity in the U.S.	4
SOC218	Sociology of Gender	4
SOC225	Social Problems and Solutions	4
SOC228	Environment and Society	4
SOC230	Introduction to Gerontology	4
SOC235/HST259	The Chicano/Latino Historical Experience	4

[3] Approved Science Electives

(Complete at least three courses, two of which must have labs, from the following list, 11-15 credits. Note that only one course can be a regional field studies course indicated by asterisk.)

Course No.	Course Title	Credits
BI100GB	Introductory Biology (non-lab course)	3
BI100SB	Biology of Human Body Systems (non-lab course)	3
BI101,102,103	Introduction to Biology I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM106	Introductory Biochemistry with lab	4
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CIS195	Web Authoring I (HTML/CSS) (non-lab course)	4
ENV111	Introduction to Environmental Science (non-lab course)	3
G100	Fundamentals of Geology (non-lab course)	3
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GEOG100	Introduction to Physical Geography (non-lab course)	3
GS104,106,107,108	Physical Science with lab	4-4-4-4
GS170 *	Regional Field Studies with lab	4
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

[4] Approved Program Electives

(complete 6-15 credits for a total of 90 program credits)

Course No.	Course Title	Credits
HE199	Special Studies in Health	1-3
HE208	HIV and Other Epidemics	1
HE250	Personal Health	3
HE252	First Aid/CPR	3
PE184	Adaptive Physical Education	1
PE185	Any physical education course not required within core requirements	variable
PE194	Principles of Exercise Training and Conditioning	2
PE199	Special Studies in Physical Education	1-3
PE264	Fundamentals of Personal Training	2
PE280	CWE/Physical Education	2
PE290	Fitness Instructor	2
	Any lower division transfer course not already required	variable

For more information contact the Health/Physical Education/Recreation Department:

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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

MASSAGE THERAPY

Massage Therapy
Certificate of Completion

Fall 2021 Program Admission

About the Program

The Massage Therapy four-term certificate program provides a comprehensive combination of classroom and hands-on experience in massage therapy. The courses and total hours meet the requirements for licensure application to the Oregon Board of Massage Therapists, the Federation of State Massage Therapy Board's Licensing Examination and National Certification Board for Therapeutic Massage and Body Work (NCBTMB) certification. Oregon law, however, sets the qualifications for certification of applicants. Grounds for denial of state licensure include physical or mental conditions that would make an applicant unable to safely conduct a massage, or conviction of a crime that bears a demonstrable relationship to the practice of massage. See Oregon Law 687.081.

Program Learning Outcomes

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

Communicate effectively in a professional manner with clients, members of the healthcare team, and others.

Demonstrate and document various assessment processes, recognizing health and non-health within the body.

Demonstrate ability to research pathologies and utilize clinical judgment using knowledge and problem-solving skills when creating and implementing a treatment plan.

Provide care for diverse populations of clientele and demonstrate a personal commitment to service and the profession of massage therapy.

Demonstrate ethical/legal behaviors and boundaries in the massage profession, identify and apply components of a business plan and the ability to bill insurance cases.

Utilize universal precautions and maintain a high level of sanitization of equipment and the facility.

Utilize a variety of soft tissue modalities to aid in the health and healing of one's body, and recognize how those modalities and massage skills combine to create different effects to meet the goals of clientele.

Use safe, efficient and effective body mechanics for injury prevention of the therapist and client as well as utilize, demonstrate, and instruct the client in self-care techniques.

Identify and describe components of the body systems, how homeostasis is maintained, effects of massage on the differing systems, and demonstrate safe movement through range of motion.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Massage Therapy is a limited-entry program. Interested applicants must attend a mandatory massage therapy information meeting. The timeline for submitting program application materials for fall 2020 admission is April 1-June 24, 2020. 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 score	0-4
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		**6-13**

Recommended Preparatory Courses

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

Required Courses

Course No.	Course Title	Credits
First Term		
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
HE261	CPR/Basic Life Support Provider or	
	HE252 First Aid/CPR	1-3
MTH63	Applied Algebra I	
	BT160 Business Math or higher level math OR	
	MTH60 Fundamentals of Algebra I	4
——	Approved program elective(s)	0-2
		5-11
Second Term		
BI121	Elementary Anatomy and Physiology I with lab or	
	BI231 Anatomy and Physiology I with lab [2]	4
MT100	Massage I – Basic Swedish	3
MT101	Asian Bodywork I	2
MT108	Kinesiology for Massage Therapists with lab	4
——	Approved program elective(s)	0-4
		13-17
Third Term		
BI122	Elementary Anatomy and Physiology II with lab or	
	BI232 Anatomy and Physiology II with lab and	
	BI233 Anatomy and Physiology III with lab [2]	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		**50-58**

Approved Program Electives

(4 credits required)

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] BI211 is a prerequisite for BI231. If BI231 is taken, students must also complete BI232 and BI233.

For more information contact the Massage Therapy Department:

Grants Pass or Medford 541-956-7066
Toll free in Oregon . . . . . 800-411-6508, Ext. 7066
email . . . . . massage@roguecc.edu
Website . . . . . www.roguecc.edu/massage
TTY . . . . . Oregon Telecom Relay Service, 711

Massage Therapy: Entry-level Therapist

Career Pathway Certificate

Fall 2020 Program Admission

About the Program

The Entry-level Massage Therapist three-term career pathways certificate meets the requirements for licensure application to the Oregon Board of Massage Therapists and the Federation of State Massage Therapy Board's Licensing Examination and National Certification Board for Therapeutic Massage and Body Work (NCBTMB) certification. Oregon law, however, sets the qualifications for certification of applicants. Grounds for denial of state licensure include physical or mental conditions that would make an applicant unable to safely conduct a massage, or conviction of a crime that bears a demonstrable relationship to the practice of massage. See Oregon Law 687.081.

Program Learning Outcomes

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

Communicate effectively in a professional manner with clients, members of the healthcare team, and others.

Demonstrate and document various assessment processes, recognizing health and non-health within the body.

Demonstrate ability to research pathologies and utilize clinical judgment using knowledge and problem-solving skills when creating and implementing a treatment plan.

Provide care for diverse populations of clientele and demonstrate a personal commitment to service and the profession of massage therapy.

Demonstrate ethical/legal behaviors and boundaries in the massage profession, identify and apply components of a business plan and the ability to bill insurance cases.

Utilize universal precautions and maintain a high level of sanitization of equipment and the facility.

Utilize a variety of soft tissue modalities to aid in the health and healing of one's body, and recognize how those modalities and massage skills combine to create different effects to meet the goals of clientele.

Use safe, efficient and effective body mechanics for injury prevention of the therapist and client as well as utilize, demonstrate, and instruct the client in self-care techniques.

Identify and describe components of the body systems, how homeostasis is maintained, effects of massage on the differing systems, and demonstrate safe movement through range of motion.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Massage Therapy is a limited-entry program. Interested applicants must attend a mandatory massage therapy information meeting. The timeline for submitting program application materials for fall 2020 admission is April 1 to June 24, 2020. 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.

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 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 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 with lab	4
MT100	Massage I – Basic Swedish	3
MT101	Asian Bodywork I	2
MT108	Kinesiology for Massage Therapists with lab	4
——	Approved program elective	2
		15
Second Term		
BI122	Elementary Anatomy and Physiology II with lab	4
MT102	Massage II – Swedish	2
MT105	Massage Therapeutics: Hydrotherapy and Massage for Cancer Patients	3
MT106	Integrated Studies in Massage I (Upper Body)	2
MT109	Pathology for Massage Therapists	4
		15
Third Term		
HE261	CPR/Basic Life Support Provider	1
MT103	Massage III – Swedish	2
MT107	Integrated Studies in Massage II (Lower Body)	2
MT116	Massage Exam Review	2
MT120A	Business for Massage Therapists	1
MT120B	Business for Massage Therapists	2
MT121	Asian Bodywork II	2
MT180	Cooperative Work Experience/Massage Practicum	1
MT180S	Cooperative Work Experience/Massage Seminar	1
		14
TOTAL PROGRAM CREDITS		**44**

Approved Program Electives

(2 credits required)

Course No.	Course Title	Credits
MT111	Sport Massage	2
MT112	Massage for Pregnancy and Infant/Child	2
MT113	Myofascial Release	2
MT114	Massage Therapy Study Skills Lab	1
MT115	Trigger Point Therapy	2
MT117	Body Maintenance for Massage Therapists	2
MT118	Deep Tissue Massage	2
MT119	Introduction to Craniosacral Therapy	2
MT180	Cooperative Work Experience/Massage	variable
MT199	Selected Topics: Massage	variable

For more information contact the Massage Therapy Department:

Grants Pass or Medford. 541-956-7066

Toll free in Oregon . . . . . .800-411-6508, Ext. 7066

email. . . . . .massage@roguecc.edu

Website. . . . . www.roguecc.edu/massage

TTY . . . . . Oregon Telecom Relay Service, 711

NURSING

Nursing
Associate of Applied Science Degree

Fall Term 2021 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 RCC Nursing program is a full-time commitment to two (2) years of nursing courses (after completing one (1) year of pre-requisite/preparatory course work of 45 credits minimum and application to the limited-entry program.) Applicants admitted to the RCC Nursing program are co-admitted to the OHSU Nursing programs and once students complete their Associate Degree in Nursing program at RCC, the OCNE curriculum provides entry to OHSU's Nursing program. Continued full-time study for four (4) more terms leads to a Bachelor of Science degree in Nursing.

Graduates of the Rogue Community College Nursing program are eligible to sit for the NCLEX-RN licensure testing. Students who choose to complete their BS,N through the OHSU School of Nursing program must complete an additional 15 credits of upper-division college credits in order to progress into nursing courses for the bachelor's degree through OHSU. RCC's Statistics course will apply, but all other upper-level courses must be taken at a college or university with 300+ level courses.

Options available for baccalaureate completion can be found at 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. Ten collaboratively created OCNE competencies drive the curriculum. Program learning outcomes for the nursing program are:

Base personal and professional actions on a set of shared core nursing values, including social justice, caring, advocacy, protection of patient autonomy, prevention of harm, respect for self and others, collegiality, authority, accountability, responsibility for nursing practice and ethical behavior.

Use reflection, self-analysis, and self-care to develop insight through reflection, self-analysis, and self-care.

Engage in intentional learning, developing self-awareness of the goals, processes, and potential actions of this learning and its effects on patient/client care.

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

Collaborate as part of a health care team, providing, receiving, using feedback in a constructive manner.

Practice within, utilize, and contribute to all health care systems.

Practice a relationship-centered approach, based on developing mutual trust and respect for the autonomy of the patient/client.

Communicate effectively, accurately and therapeutically, with attention to social and cultural influences, and using appropriate communication modalities and technologies to ensure patient safety and provide for comprehensive continuity of care.

Make sound clinical judgments through an iterative process of noticing, interpreting, responding and reflecting, using best available evidence, frameworks and systems to organize data and knowledge; accurately performing cognitive, affective and psychomotor skills in the delivery of care while maintaining safety of the patient/client, family, community, environment, and self.

Locate, evaluate, and use the best available evidence.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success, e.g. NUR100 (course for re-entry students only). Students who have failed any two nursing courses (RN level, any program) are disqualified from applying for entry or re-entry to the RCC Nursing Program.

Program admission occurs once per year. Deadline for submitting program application material is February 15, 2021, for fall term 2021 admission (see program website and/or application packet for more information). Transcripts showing satisfactory completion of the math and Anatomy and Physiology I prerequisites and at least 22 other credits of the prerequisite/preparatory courses (minimum of 30 credits) must be in the Enrollment Services office by the application deadline to be considered eligible. All prerequisite/preparatory courses must have been taken with a letter grade and completed with a "C" or better (C- grades are not accepted). Consortium partner schools will use shared standards in a point system and a set of core criteria for evaluation and selection of candidates to the consortium curriculum, but selection processes, acceptance decisions, and admissions will occur at individual schools. Application to the Nursing program requires a minimum GPA of 3.0 for all completed prerequisite/preparatory courses. Contact the Nursing Department or see the Nursing website for information regarding the application and selection process.

If an applicant has taken an equivalent course elsewhere which has a course number, title, or credit hour different from the RCC course, the applicant must contact RCC's Enrollment Services office for a transfer credit evaluation as far in advance of the application deadline as possible. To be 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. Information regarding required immunizations will be provided in the acceptance letter.

Internet and email access is an integral part of all nursing courses and access to a computer (at home or at the college) will be required on a daily basis. Beginning fall 2020, after completion of a new building, Nursing students will attend classes at the Table Rock Campus in White City and clinical practicum in both Josephine and Jackson Counties and will need reliable transportation. See the program website and/or program information for progression policies.

Graduation Requirements

These requirements apply only to nursing students admitted to the program during 2020-21 academic year. The program of study, graduation requirements, and courses are under constant review and are subject to revision. Students contemplating admission in a later year may have different requirements and must obtain the graduation guide or catalog for that year. If required courses (i.e., clinicals) are graded only on a pass/no pass basis, a grade of "P" for these courses indicate a student earned the equivalent of a "C" or better grade.

Students must complete all courses on this graduation guide with a grade of "C" or better to continue in and complete the program, receive their degrees, and meet the educational requirements to apply to take the national licensure exam (NCLEX-RN). The OSBN screens all applicants for licensure and may deny licensure applicants with a criminal offense or with a major physical or mental condition that could affect their ability to practice nursing safely. Contact the OSBN with any questions.

Prerequisites/Required Preparatory Courses[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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [3]	0-2
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, 5]	4
WR122	English Composition II [4, 5]	4
____	Any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science electives) [6]	0-6
Prerequisite/Preparatory Credits to be Eligible to Apply [1]		**30**
Remaining Prerequisite/Preparatory Credits to be Completed Before Admission to Nursing Courses		**15-16**
Minimum Number of Prerequisite Credits Required		**45-46**

First Year Nursing Course Requirements [7]

Course No.	Course Title	Credits
Fall Term		
NRS110	Foundations of Nursing – Health Promotion	4
NRS110C	Foundations of Nursing – Health Promotion	5
____	Any college-level (100 or 200 numbered) transferable social science elective [8]	3
		12
Winter Term		
NRS111	Foundations of Nursing in Chronic Illness [6]	2
NRS111C	Foundations of Nursing in Chronic Illness Clinical	4
NRS230	Clinical Pharmacology I	3
NRS232	Pathophysiological Processes I	3
		12
Spring Term		
NRS112	Foundations of Nursing in Acute Care I [6]	2
NRS112C	Foundations of Nursing in Acute Care I Clinical	4
NRS231	Clinical Pharmacology II	3
NRS233	Pathophysiological Processes II	3
WR___	Research Writing [5]	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	5
NRS221C	Nursing in Chronic Illness II and End-of-Life Clinical	4
____	Any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science electives [8]	6
		15
Winter Term		
NRS222	Nursing in Acute Care II and End-of-Life	5
NRS222C	Nursing in Acute Care II and End-of-Life Clinical	4
____	Any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science electives [8]	6
		15
Spring Term		
NRS224	Integrative Practicum	2
NRS224C	Integrative Practicum Clinical	7
____	Any college-level (100 or 200 numbered) transferable non-studio humanities, social science or science electives [8]	3
		12
TOTAL PROGRAM CREDITS BEYOND 30 PREREQUISITE CREDITS		**93-98**

[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. Minimum prerequisite GPA for eligibility is 3.0. C- (minus) grades are not accepted.

[2] Virtual labs are not accepted; see note at end of this footnote. Remote or distance labs not conducted in the physical presence of an instructor are also not accepted for lab science courses; see note at end of this footnote. 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. Due to the COVID pandemic, lab courses taken online during 2020/21 will be accepted.

[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] 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.

[6] 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.

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

[8] 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.

[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, 2021. 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

Practical Nursing
Certificate of Completion

2021 Year

About the Program

Rogue Community College offers a limited-entry, three-term (33 week) program leading to a certificate in Practical Nursing (PN), which meets the educational requirements for the national exam for PN licensure (NCLEX-PN). The program is located at the Table Rock Campus (TRC). The Practical Nursing program is approved by the Oregon State Board of Nursing (OSBN), 17938 SW Upper Boones Ferry Rd., Portland, OR, 971-673-0685, www.oregon.gov/OSBN.

The U.S. Department of Education requires disclosure of specific information about career and technical certificate programs to prospective students. Data includes Standard Occupational Classification (SOC) codes, graduation rates, tuition and fees, typical costs for books and supplies, job placement rates for students completing the programs, and median loan debt incurred by students completing the programs. For more information visit www.roguecc.edu/GainfulEmployment.

Program Learning Outcomes

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

Demonstrate a personal commitment to service and the profession of nursing

Demonstrate ethical and legal behavior in nursing practice.

Demonstrate clinical judgment using knowledge and problem solving skills when contributing to and implementing the plan of care.

Provide culturally sensitive care across the lifespan.

Apply established principles of health promotion and preventive health care.

Use technological resources effectively and appropriately.

Provide clinically competent care through use of established standards and practice guidelines.

Use clear and effective therapeutic communication with clients, families, members of the healthcare team, and others.

Apply concepts of resource utilization to practice cost-effective nursing care.

Functions as a member of the health care team.

Manage and coordinate care within organizational and regulatory constraints.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Program admission occurs once per year in winter term. The deadline for submitting program application material and completing the required program pre-admission test and other requirements is September 8, 2020, for January 2021 admission. The application deadline may be extended if there are an insufficient number of qualified applicants (watch program website for notification).

To be eligible, prerequisite classes must have been completed with a grade of "C" or better prior to the application deadline. For courses graded only as pass/no pass, a pass that is equal to a "C" is required. If a course is repeated, only the most recent grade will be considered for the selection process. Applicants must have a minimum 2.0 cumulative GPA (for all courses completed at RCC, or at college where anatomy and physiology completed if applicant is new to RCC) and be in good standing (not on academic warning or probation) at RCC to be eligible.

If an applicant has taken an equivalent course elsewhere which has a course number, title, or credit hour different from the RCC course, she or he must contact Enrollment Services for a transfer credit evaluation as far in advance of the application deadline as possible.

Accepted students must attend mandatory program orientations the last two Friday mornings of fall term prior to the beginning of Practical Nursing courses in winter term. A notice of dates, times, and place of the orientations will be emailed to accepted students. Accepted applicants (notification occurs by mid-November) must have proof of a valid unencumbered OSBN CNA certification current through November 1, 2020, and have completed required preparatory courses with a "C" or better by the end of fall term to retain acceptance and enter practical nursing courses in winter term.

Accepted students must pass a criminal history background check and urine drug screen (with negative results) to retain acceptance and enter the program in January. Information regarding both can be found on the program website and will be provided to students before winter practical nursing classes begin. Since applicants are or will be CNAs, failed criminal history checks or urine drug screens will be reported to the OSBN. Accepted students must successfully complete a CPR Health Care Provider course (adult/infant/child, one and two person, with AED; online courses are not accepted) within one year prior to the September application deadline (and must remain current throughout program). The CPR course must comply with the American Heart Association standards.

CNA work experience is recommended before application but not required. Practical nursing faculty will evaluate the CNA skills of all students admitted to PN101. More information is available by clicking on "enter here" on the program website at www.roguecc.edu/nursing/practicalnursing.

Graduation Requirements

These requirements apply only to students admitted to the Practical Nursing Certificate program courses in January 2021. Students contemplating admission in a later year may have different requirements and must obtain the graduation guide for that year. Successful completion means that students must complete all courses in this program with a grade of "C" or better to continue in and complete the program and receive a certificate. Accepted PN students will forfeit their acceptance unless a complete anatomy and physiology sequence and all other required preparatory courses have been successfully completed, and the criminal history background check and urine drug screen have been passed prior to the start of PN101 in January.

The OSBN screens all applicants for licensure and may deny licensure to applicants with a criminal offense or with a major physical or mental condition that could affect their ability to practice nursing safely. Licensure applicants with a history of chemical dependence may be required to have an assessment by a drug and alcohol counselor. Contact the OSBN with any questions.

Clinical (inclusive of skills lab) courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade.

Prerequisites

Course No.	Course Title	Credits
BI121	Elementary Anatomy and Physiology I with lab (within last seven years or BI231 and BI232 if both completed with labs within last seven years) [1]	4
MTH65	Fundamentals of Algebra II or higher level math [2]	4
PSY101	Psychology of Human Relations [3]	3
WR115	Introduction to Expository Writing (or designated placement score or completion of WR121)	0-3
CNA-1	OSBN-approved CNA-1 course with completion certificate; course proof waived for students with copy of current OSBN CNA-[1] certification attached to application [4]	–
TOTAL PREREQUISITE CREDITS		**11-14**

Required Preparatory Courses

Course No.	Course Title	Credits
BI122	Elementary Anatomy and Physiology II with lab or BI233 Human Anatomy and Physiology III within last seven years if student completed BI231 and BI232 as prerequisites [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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [5]	0-2
WR121	English Composition [6]	4
TOTAL PREPARATORY CREDITS		**8-11**

Required Courses

Course No.	Course Title	Credits
Winter (First) Term		
PN101	Practical Nursing I	8
PN101C	Practical Nursing I Clinical	4
		12
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) [7]	2
		14
TOTAL POST-PREREQ PROGRAM CREDITS		**46-52**

Approved Program Electives

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
CG100	College Success and Survival	2
EMS165	Introduction to Pharmacology for Health Occupations	
HE/PE	Health or Physical Education courses	1-3
LIB127	Introduction to Academic Research	1
NUR100	Scope of Practice and Safety Considerations (by permission only for students accepted for re-entry to the program)	1
RD115	Speedreading for College	3
RD120	Critical Reading and Thinking	3
WR110	Understanding English Grammar	2

[1] Virtual labs are not accepted; see end of this footnote. Remote or distance labs not conducted in the physical presence of an instructor are also not accepted for lab science courses. Note: due to the COVID pandemic, lab courses taken online during 2020-21 will be accepted.

[2] Transcripted course required for graduation.

[3] Required for graduation.

[4] 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.

[5] Successful completion of CIS120 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.

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

[7] Students must register for PN104C (summer session) at the same time they register for PN103 and PN103C. PN103, 103C and 104C are in a new academic/financial aid year.

For more information regarding the program, selection process, and points contact the Practical Nursing program:

Grants Pass or White City. 541-956-7308
Toll free in Oregon . . . . . .800-411-6508, Ext. 7308
Email . . . . . practical nursing@roguecc.edu
Web address . . . . . .www.roguecc.edu/nursing/practicalnursing
TTY . . . . . Oregon Telecom Relay Service, 711

COMPUTER SCIENCE

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 53 core credits within the major area.

Students must work closely with their advisors to ensure transferability. If students transfer before completing this degree or transfer in a major not covered by prior agreements, courses will be evaluated individually toward the transfer requirements of the college of their choice. Students are advised to obtain written approval from Oregon Tech to guarantee their catalog of transfer for three years.

Program Learning Outcome

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. The program learning outcome for the Computer and Embedded Systems Engineering Technology Transfer to Oregon Tech degree is:

Students will be prepared to transfer into Oregon Tech's Computer and Embedded Systems Engineering program.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over four years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C" or better. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade. Students should be aware that Oregon Tech requires a grade of "B" or better in CS161U and CS162U for transfer.

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH111	College Algebra or designated placement score	0-4
MTH112	Elementary Functions or designated placement score	0-4
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits		**0-13**

General Education Requirements

Course No.	Course Title	Credits
COMM111	Fundamentals of Public Speaking	4
LIB127	Introduction to Academic Research	1
MTH251	Calculus I (Differential) w/lab	5
MTH252	Calculus II (Integral) w/lab	5
MTH254	Vector Calculus w/lab	5
PH211	General Physics (Calculus Based) I w/Lab and Recitation	5
PSY202	General Psychology II	4
WR121	English Composition I [1]	4
WR227	Technical Writing	4
____	Approved humanities electives [2]	6
Total General Education Credits		**43**

Core Requirements

Course No.	Course Title	Credits
CS161U	Computer Science I (C++)	4
CS162U	Computer Science II (C++)	4
CS234U	Object Oriented Programming in C++	4
EET125	Electronics Fundamentals I (DC)	6
EET126	Electronics Fundamentals II (AC)	6
EET129	Introduction to Embedded Systems	3
EET130	Digital Fundamentals I	6
EET131	Digital Fundamentals II	5
EET132	Digital Fundamentals III	5
EET240	Microcontrollers I	5
EET241	Microcontrollers II	5
Total Core Credits		**53**
TOTAL PROGRAM CREDITS		**96**

[1] 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.

[2] Approved Humanities Electives

(Complete 9 credits from the following list. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4

MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

For more information contact the Electronics Technology Department:

Grants Pass or Medford 541-245-7809
Toll free in Oregon ..... 800-411-6508, Ext. 7809
email ..... electronics@roguecc.edu
Web Address ..... www.roguecc.edu/electronics
TTY ..... Oregon Telecom Relay Service, 711

Computer Science Transfer to Southern Oregon University

Associate of Science Degree

Final articulation agreement pending at time of catalog print. See program advisor for updated information.

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 23-31 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:

Demonstrate the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined technology activities.

Ability to develop a knowledge of mathematics, science, engineering, and technology to technology problems that require limited application of principles but extensive practical knowledge.

Ability to function effectively as a member of a technical team.

Ability to identify, analyze, and solve narrowly defined technology problems.

Ability to demonstrate written, oral, and graphical communication in both technical and non-technical; and an ability to identify and use appropriate technical literature.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C" or better. Students should be aware that SOU requires a grade of "B" in CS161 and CS162 for transfer. Certain required courses are also graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade.

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH95	Intermediate Algebra or designated placement score	0-4
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits		**0-9**

General Education Requirements

Course No.	Course Title	Credits
COMM225	Small Group Communication and Problem-solving or COMM100 Basic Communication or COMM111 Fundamentals of Public Speaking or COMM218 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 [1]	9-12
——	Approved science electives [2]	11-15
——	Approved social science electives [3]	9-12
Total General Education Requirements		**59-70**

Core Requirements

Course No.	Course Title	Credits
CIS125DB	Data Base Management Systems	3
CIS140	Introduction to Operating Systems	4
CS133/CS161U	Any CS133/CS161U programming language course	4
CS161J	Computer Science I	4
CS162J	Computer Science II	4
CS275	Data Base Development I	4
——	Approved computer science electives [4]	0-8
Total Core Credits		**23-31**
TOTAL PROGRAM CREDITS		**90-93**

[1] Approved Humanities Electives

(complete at least three courses from the following list, 9-12 credits)

Course No.	Course Title	Credits
ART131	Introduction to Drawing	3
ART204,205,206	History of Art I, II, III	4-4-4
COMM115	Introduction to Intercultural Communication	4
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4

HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
IS110	Introduction to International Studies I	4
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141	Fundamentals of Acting	4
WR241,242,243	Imaginative Writing I, II, III	4-4-4

[2] Approved Science Electives

(Complete at least three courses, two of which must have labs, from the following list, 11-15 credits. Note that only one course can be a regional field studies course indicated by asterisk.)

Course No.	Course Title	Credits
BI100GB	Introductory Biology (non-lab course)	3
BI100SB	Biology of Human Body Systems (non-lab course)	3
BI101,102,103	Introduction to Biology I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM106	Introductory Biochemistry with lab	4
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CIS195	Web Authoring I (HTML/CSS) (non-lab course)	4
ENV111	Introduction to Environmental Science (non-lab course)	3
G100	Fundamentals of Geology (non-lab course)	3
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GEOG100	Introduction to Physical Geography (non-lab course)	3
GS104,106,107,108	Physical Science with lab	4-4-4-4
GS170 *	Regional Field Studies with lab	4
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

[3] Approved Social Science Electives

(complete at least three courses from the following list, 9-12 credits)

Course No.	Course Title	Credits
ANTH110,150	Introduction to Cultural Anthropology/Archaeology	4-4
BA101	Introduction to Business	4
BA218	Personal Finance	3
CJ200/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
PS201,202,203	American Government I, II, III	3-3-3
PSY101	Psychology of Human Relations	3
PSY119	Psychology of Personal Growth	4
PSY201,202	General Psychology I, II	4-4
PSY215	Life Span Human Development	4
PSY219	Introduction to Abnormal Psychology	4
PSY231	Human Sexuality	3
SOC204,205	Introduction to Sociology, American Society	4-4
SOC211	Social Deviance and Social Control	3
SOC213	Race and Ethnicity in the U.S.	4
SOC218	Sociology of Gender	4
SOC225	Social Problems and Solutions	4
SOC228	Environment and Society	4
SOC230	Introduction to Gerontology	4
SOC235/HST259	The Chicano/Latino Historical Experience	4

[4] Approved Computer Science Electives

(Minimum 0-8 credits required.) Complete sufficient number of courses from the list below to meet total degree requirement of at least 90 credits.

Course No.	Course Title	Credits
CIS179	Introduction to Networks	4
CIS240LX	Advanced Operating Systems: Linux	4
CIS279	Network Operating Systems	4
CS133	Any CS133 programming language not taken as core requirement	4
CS160	Introduction to Computer Science	4
CS161U	Computer Science I (C++) (if not taken as part of core)	4
CS162U	Computer Science II (C++)	4
CS234U	Object Oriented Programming with C++	4
CS260	Data Structures	4
EET240	Microcontrollers I	5
MTH253	Calculus III	5
MTH254	Calculus IV	5

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

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 system. Students should be aware that if they transfer before completing this degree, courses will be evaluated individually toward the general education requirements of the college of their choice. Students should use the ASOT-Computer Science university-specific degree requirements guide for specific transfer requirements for individual schools.

Program Learning 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:

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; and

Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Computer Science Department chair's approval. In order to ensure coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward course requirements.

Graduation Requirements

Students must complete a minimum of 90 term credits of lower division collegiate courses with a minimum grade of "C" or better.

General Education Requirements

Course No.	Course Title	Credits
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**
COMM100	Basic Communication [1]	3
COMM111	Fundamentals of Public Speaking	4
COMM115	Intercultural Communication [2]	4
COMM218	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 **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 [3] **12-15**

Complete three biological and/or physical science laboratory courses.

Total Distribution Credits **33-43**

Computer Science-specific Requirements

Course No.	Course Title	Credits
CS160	Introduction to Computer Science	4
CS161U	Computer Science I (C++) or	
	CS161J Computer Science I (Java) [4]	4
CS162U	Computer Science II (C++) or	
	CS162J Computer Science II (Java) [4]	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] COMM100 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] 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.

[4] The language taken will depend on the school being transferred to.

For more information contact the Computer Science Department:

Grants Pass 541-956-7213
Medford 541-245-7527
Toll free in Oregon . . . . . 800-411-6508, Ext. 7213 or Ext. 7527
email . . . . . cs@roguecc.edu
Web address . . . . . .www.roguecc.edu/computerscience
TTY . . . . . Oregon Telecom Relay Service, 711

Cybersecurity Transfer to Oregon Tech

Associate of Science Degree

Final articulation agreement pending at time of catalog print. See program advisor for updated information.

About the Program

The Associate of Science (AS) degree is based on a signed articulation agreement with Oregon Tech. The program is designed for students transferring to its baccalaureate degree program in Cybersecurity. Students must work closely with advisors in their areas of interest to ensure electives are appropriate. The curriculum allows for 53 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 Cybersecurity Transfer to Oregon Tech degree is:

Demonstrate the knowledge, techniques, skills, and modern tools of the discipline to defined information systems technology.

Ability to design and implement information systems using the latest technology and standard best practices.

Ability to function effectively as a member of a technical team.

Ability to identify, analyze, and solve technical issues with the use of information systems and technology.

Ability to demonstrate written, oral, and graphical communication in both technical and non-technical; and an ability to identify and use appropriate technical literature.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH95	Intermediate Algebra or designated placement score	0-4
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits		**0-9**

General Education Requirements

Course No.	Course Title	Credits
COMM111	Fundamentals of Public Speaking	4
ECON201	Principles of Microeconomics	4
ECON202	Principles of Macroeconomics	4
LIB127	Introduction to Academic Research	1
MTH111	College Algebra	4
MTH112	Elementary Functions	4
PSY202	General Psychology II	4
WR121	English Composition I	4
WR227	Technical Writing	4
———	Approved humanities electives [1]	6-8
———	Approved science electives [2]	4
Total General Education Requirements		**43-45**

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
BA226	Business Law	4
CIS125DB	Data Base Management Systems	3
CIS140	Operating Systems	4
CIS179	Introduction to Networks	4
CIS227	PC Hardware Fundamentals and Repai	r3
CIS279	Network Operating Systems	4
CIS240LX	Advanced Operation Systems – Linux	4
CIS284	Network Security Fundamentals	4
CS133C#	Programming Fundamentals Using C#	4
CS275	Database Development I	4
Total Core Credits		**53**
TOTAL PROGRAM CREDITS		**96-100**

[1] Approved Humanities Electives

(Complete at least two courses from the following list, 6-8 credits. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design (Composition/Color Theory)	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature I, II, III4	-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 Writer	s4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities I, II, III	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

[2] Approved Science Electives

At least four credits must be completed from a laboratory-based science course in BI, CHEM or PH.

For more information, contact the Computer Science Department:

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Medford 541-245-7527
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TTY . . . . . Oregon Telecom Relay Service, 711

Information Technology Transfer to Oregon Tech
Associate of Science Degree

About the Program

The Associate of Science (AS) degree is based on a signed articulation agreement with Oregon Tech. The program is designed for students transferring to its baccalaureate degree program in Information Technology. Students must work closely with advisors in their areas of interest to ensure electives are appropriate. The curriculum allows for 52 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:

Demonstrate the knowledge, techniques, skills, and modern tools of the discipline to defined information systems technology.

Ability to design and implement information systems using the last technology and standard best practices.

Ability to function effectively as a member of a technical team.

Ability to identify, analyze, and solve technical issues with the use of information systems and technology.

Ability to demonstrate written, oral, and graphical communication in both technical and non-technical; and an ability to identify and use appropriate technical literature.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH95	Intermediate Algebra or designated placement score	0-4
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits:		**0-9**

General Education Requirements

Course No.	Course Title	Credits
COMM111	Fundamentals of Public Speaking	4
ECON201	Principles of Microeconomics	4
ECON202	Principles of Macroeconomics	4
LIB127	Introduction to Academic Research	1
MTH111	College Algebra	4
MTH112	Elementary Functions	4
PSY202	General Psychology II	4
WR121	English Composition I	4
WR227	Technical Writing	4
——	Approved humanities electives [1]	6-8
——	Approved science electives [2]	4
Total General Education Requirements		**43-45**

Core Requirements

Course No.	Course Title	Credits
BA206	Management Fundamentals	3
BA211	Financial Accounting I	4
BA212	Financial Accounting II	4
BA213	Managerial Accounting	4
BA223	Principles of Marketing	3
BA226	Business Law	4
CIS125DB	Data Base Management Systems	3
CIS140	Operating Systems	4
CIS179	Introduction to Networks	4
CIS227	PC Hardware Fundamentals and Repair	3
CIS279	Network Operating Systems	4
CIS284	Network Security Fundamentals	4
CS133C#	Programming Fundamentals Using C#	4
CS275	Database Development I	4
Total Core Credits		**52**
TOTAL PROGRAM CREDITS		**95-97**

[1] Approved Humanities Electives

(Complete at least three courses from the following list, 9-12 credits. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design (Composition/Color Theory)	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature I, II, III	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature I, II, III	4-4-4
ENG253,254,255	Survey of American Literature I, II, III	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities I, II, III	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4

REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

[2] Approved Science Electives

At least four credits must be completed from a laboratory-based science course in BI, CHEM or PH.

For more information contact the Computer Science Department:

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TTY . . . . . Oregon Telecom Relay Service, 711

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. Students must work closely with advisors in their areas of interest to ensure electives are appropriate. The curriculum allows for 35 core credits within the major area. By completing all appropriate credits (including electives), students will fulfill required lower division coursework for transfer to OT.

Students must work closely with their advisors to ensure transferability of this program. If students transfer before completing this degree or transfer in a major not covered by prior agreements, courses will be evaluated individually toward the transfer requirements of the college of their choice. Students are advised to obtain written approval from Oregon Tech to guarantee their catalog of transfer for three years.

Program Learning 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:

Demonstrate the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities.

Ability to develop a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge.

Ability to function effectively as a member of a technical team.

Ability to identify, analyze, and solve narrowly defined technology problems.

Ability to demonstrate written, oral, and graphical communication in both technical and non-technical; and an ability to identify and use appropriate technical literature.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over five years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C" or better. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade. Students should be aware that Oregon Tech requires a grade of "B" in CS162U and CS234U for transfer.

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
MTH111/112	College Algebra/Elementary Functions	0-8
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits		**0-13**

General Education Requirements

Course No.	Course Title	Credits
COMM111	Fundamentals of Public Speaking	4
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
WR121	English Composition I	4
WR227	Technical Report Writing	4
——	Approved humanities electives [1]	9-12
TOTAL GENERAL EDUCATION REQUIREMENTS		**56-59**

Core Requirements

Course	Title	Credits
CS161U	Computer Science I (C++)	4
CS162U	Computer Science II (C++)	4
CS234U	Object Oriented Programming with C++	4
CS260	Data Structures	4
EET129	Introduction to Embedded Systems	3
EET125	Electronics Fundamentals I (DC)	5
EET130	Digital Fundamentals I	6
EET240	Microcontrollers I	5
TOTAL CORE CREDITS		**35**
TOTAL PROGRAM CREDITS		**91-94**

[1] Approved Humanities Electives

(Complete three courses. 9-12 credits from the following list. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4

ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

For more information contact the Computer Science Department:

Grants Pass 541-956-7213
Medford 541-245-7527
Toll free in Oregon ..... 800-411-6508, Ext. 7213 or Ext. 7527
email ..... cs@roguecc.edu
Web address .....www.roguecc.edu/computerscience
TTY .....Oregon Telecom Relay Service, 711

SCIENCE

Engineering Transfer to Oregon Tech – Civil

Associate of Science Degree

About the Program

The Associate of Science – Civil Engineering is for students interested in transferring to a bachelor's degree program at Oregon Tech.

Program Learning Outcomes

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

Identify the broad context of engineering problems, including describing the problem conditions, identifying possible contributing factors, and generating alternative solution strategies.

Identify the fundamental elements of engineering design including associated safety, quality, schedule and cost considerations.

Employ mathematics, science, and computing techniques in a systematic and rigorous manner to support the study and solution of engineering problems.

Write and solve applicable equations of equilibrium for statically determinate objects.

Entry Requirements

Students in engineering majors are asked to work closely with Dusty Rittenbach, Science Department Chair, jrittenbach@roguecc.edu, to ensure success in academic planning.

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with a Science Department recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced course-work. 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 score	0-4
WR115	Introduction to Expository Writing or higher level composition placement score	0-3
Total Prerequisite Credits		**0-7**

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) with lab	5
PH211	General Physics (Calculus Based) I with lab and recitation	5
WR121	English Composition I	4
		16
Second Term		
ENGR102	Engineering Orientation II: Careers, Skills, and Computer Tools	2
MTH252	Calculus II (Integral) with lab	5
PH212	General Physics (Calculus Based) II with lab and recitation	5
WR122	English Composition II	4
		16
Third Term		
ENGR103	Engineering Orientation III: Careers, Skills, and Computer Tools	2
MTH261	Linear Algebra with lab	5
PH213	General Physics (Calculus Based) III with lab and recitation	5
		12
Fourth Term (Summer)		
MTH254	Vector Calculus with lab	5
MTH256	Differential Equations with lab	5
		10
Total First Year Credits		**54**

Second Year Required Courses

Course No.	Course Title	Credits
Fifth Term		
CHEM221	General Chemistry I with lab and recitation	5
COMM111	Fundamentals of Public Speaking	4
ECON201	Principles of Microeconomics	4
		13
Sixth Term		
CHEM222	General Chemistry II with lab and recitation	5
ENGR211	Statics	3
_____	Approved humanities elective [2]	3-4
		11-12

Seventh Term

ENGR213	Strength of Materials	3
WR227	Technical Writing	4
_____	Approved humanities elective [2]	3-4
_____	Approved social science elective [3]	3-8
		13-19

Total Second Year Credits 37-44

Total Credits 91-98

[1] Prerequisite courses may have additional requirements.

[2] Approved Humanities Electives

(Complete up to 8 credits. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design (Composition/Color Theory)	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature I, II, III	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature I, II, III	4-4-4
ENG253,254,255	Survey of American Literature I, II, III	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities I, II, III	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

[3] Approved Social Science Electives

Select up to 8 credits from the following RCC prefixes: ANTH, ECON, GEOG (EXCEPT GEOG100), HST, PS, PSY, SOC or others designated as Social Science Electives by the Oregon Tech Registrar's Office.

For more information contact the Science Department:

Grants Pass or Medford. 541.956.7066
Toll free in Oregon . . . . . 800.411.6508, Ext. 7527
email . . . . . jrittenbach@roguecc.edu
website . . . . . http://go.rogue.edu/department/science
TTY . . . . . Oregon Telecom Relay Service, 711

Engineering Transfer to Oregon Tech – Electrical

Associate of Science Degree

About the Program

The Associate of Science – Electrical Engineering is for students interested in transferring to a bachelor's degree program at Oregon Tech.

Program Learning Outcomes

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

Identify the broad context of engineering problems, including describing the problem conditions, identifying possible contributing factors, and generating alternative solution strategies.

Identify the fundamental elements of engineering design including associated safety, quality, schedule and cost considerations.

Employ mathematics, science, and computing techniques in a systematic and rigorous manner to support the study and solution of engineering problems.

Define voltage, current, power and energy for both DC and AC circuits, and how they relate with each other via sinusoids and phasors.

Entry Requirements

Students in engineering majors are asked to work closely with Dusty Rittenbach, Science Department Chair, jrittenbach@roguecc.edu, to ensure success in academic planning.

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with a Science Department recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. Engineering requires advanced coursework, and may take additional time for an associate's degree. The preparatory transfer course-work, which can be taken at RCC, may take up to three years.

Graduation Requirements

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

Prerequisites [1]

Course No.	Course Title	Credits
MTH112	Elementary Functions or higher level math placement score	0-4
WR115	Introduction to Expository Writing or higher level composition placement score	0-3
_____	Approved social science elective [2]	0-8

Total Prerequisite Credits 0-15

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) with lab	5
PH211	General Physics (Calculus Based) I with lab and recitation	5

WR121	English Composition I	4
		16

Second Term

ENGR102	Engineering Orientation II: Careers, Skills, and Computer Tools	2
MTH252	Calculus II (Integral) with lab	5
PH212	General Physics (Calculus Based) II with lab and recitation	5
WR122	English Composition II	4
		16

Third Term

ENGR103	Engineering Orientation III: Careers, Skills, and Computer Tools	2
MTH261	Linear Algebra with lab	5
PH213	General Physics (Calculus Based) III with lab and Recitation	5
		12

Fourth Term (Summer)

MTH254	Vector Calculus with lab	5
MTH256	Differential Equations with lab	5
		10

Total First Year Credits **54**

Second Year Required Courses

Course No.	Course Title	Credits
Fifth Term		
CHEM221	General Chemistry I with lab and recitation	5
COMM111	Fundamentals of Public Speaking	4
WR227	Technical Writing	4
		13
Sixth Term		
CHEM222	General Chemistry II with lab and recitation	5
CS161U	Computer Science I (C++)	4
ENGR201	Electrical Fundamentals I with lab	3
		12
Seventh Term		
CS162U	Computer Science II (C++)	4
ENGR202	Electrical Fundamentals II with lab	3
MTH253	Calculus III with lab	5
———	Approved humanities elective [3]	3-4
		15-16
Total Second Year Credits		**40-41**
Total Credits		**94-95**

1 Prerequisite courses may have additional requirements.

[2] Approved Social Science Electives

Select courses from the following RCC prefixes: ANTH, ECON, GEOG (EXCEPT GEOG100), HST, PS, PSY, SOC or others designated as Social Science Electives by the Oregon Tech Registrar's Office.

[3] Approved Humanities Electives

(Complete up to 4 credits. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design (Composition/Color Theory)	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature I, II, III	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature I, II, III	4-4-4
ENG253,254,255	Survey of American Literature I, II, III	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities I, II, III	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

For more information contact the Science Department:

Grants Pass or Medford. 541.956.7066
Toll free in Oregon . . . . . 800.411.6508, Ext. 7527
email . . . . . .jrittenbach@roguecc.edu
website . . . . . http://go.rogue.edu/department/science
TTY . . . . . Oregon Telecom Relay Service, 711

Engineering Transfer to Oregon Tech – Mechanical

Associate of Science Degree

About the Program

The Associate of Science – Mechanical Engineering is for students interested in transferring to a bachelor's degree program at Oregon Tech.

Program Learning Outcomes

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

Identify the broad context of engineering problems, including describing the problem conditions, identifying possible contributing factors, and generating alternative solution strategies.

Identify the fundamental elements of engineering design including associated safety, quality, schedule and cost considerations.

Employ mathematics, science, and computing techniques in a systematic and rigorous manner to support the study and solution of engineering problems.

Apply understanding of statics, calculus, physics, chemistry, and probability/statistics to analyze and design simple mechanical systems with engineering materials.

Entry Requirements

Students in engineering majors are asked to work closely with Dusty Rittenbach, Science Department Chair, jrittenbach@roguecc.edu, to ensure success in academic planning.

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with a Science Department recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced course-work. 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 score	0-4
WR115	Introduction to Expository Writing or higher level composition placement score	0-3
____	Approved social science elective [2]	0-8
Total Prerequisite Credits		**0-15**

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) with lab	5
PH211	General Physics (Calculus Based) I with lab and recitation	5
WR121	English Composition I	4
		16
Second Term		
ENGR102	Engineering Orientation II: Careers, Skills, and Computer Tools	2
MTH252	Calculus II (Integral) with lab	5
PH212	General Physics (Calculus Based) II with lab and recitation	5
WR122	English Composition II	4
		16
Third Term		
ENGR103	Engineering Orientation III: Careers, Skills, and Computer Tools	2
MTH261	Linear Algebra with lab	5
PH213	General Physics (Calculus Based) III with lab and recitation	5
		12
Fourth Term (Summer)		
MTH254	Vector Calculus with lab	5
MTH256	Differential Equations with lab	5
		10
Total First Year Credits		**54**

Second Year Required Courses

Course No.	Course Title	Credits
Fifth Term		
CHEM221	General Chemistry I with lab and Recitation	5
COMM111	Fundamentals of Public Speaking	4
ECON201	Principles of Microeconomics	4
		13
Sixth Term		
CHEM222	General Chemistry II with lab and Recitation	5
ENGR201	Electrical Fundamentals with lab	3
ENGR211	Statics	3
		11
Seventh Term		
ENGR202	Electrical Fundamentals II with lab	3
ENGR212	Dynamics	3
ENGR213	Strength of Materials	3
WR227	Technical Writing	4
____	Approved humanities elective [3]	3-4
		16-17
Total Second Year Credits		**40-41**
Total Credits		**94-95**

[1] Prerequisite courses may have additional requirements.

[2] Approved Social Science Electives

Select courses from the following RCC prefixes: ANTH, ECON, GEOG (EXCEPT GEOG100), HST, PS, PSY, SOC or others designated as Social Science Electives by the Oregon Tech Registrar's Office.

[3] Approved Humanities Electives

(Complete 3-4 credits. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design (Composition/Color Theory)	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature I, II, III	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature I, II, III	4-4-4
ENG253,254,255	Survey of American Literature I, II, III	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities I, II, III	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

For more information contact the Science Department:

Grants Pass or Medford. 541.956.7066
Toll free in Oregon . . . . . 800.411.6508, Ext. 7527
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TTY . . . . . Oregon Telecom Relay Service, 711

Engineering Transfer to Oregon Tech – Renewable Energy

Associate of Science Degree

About the Program

The Associate of Science – Renewable Energy Engineering is for students interested in transferring to a bachelor's degree program at Oregon Tech.

Program Learning Outcomes

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

Identify the broad context of engineering problems, including describing the problem conditions, identifying possible contributing factors, and generating alternative solution strategies.

Identify the fundamental elements of engineering design including associated safety, quality, schedule and cost considerations.

Employ mathematics, science, and computing techniques in a systematic and rigorous manner to support the study and solution of engineering problems.

Write and solve applicable equations of equilibrium for statically determinate objects.

Apply statics concepts to trusses, frames and machines, and calculation of internal forces.

Define voltage, current, power and energy for both DC and AC circuits, and how they relate with each other via sinusoids and phasors.

Entry Requirements

Students in engineering majors are asked to work closely with Dusty Rittenbach, Science Department Chair, jrittenbach@roguecc.edu, to ensure success in academic planning.

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and with a Science Department recommendation. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate program coordinator before being accepted toward core requirements. Students must complete coursework in their major at a "C" or better level before proceeding to advanced coursework. Engineering requires advanced coursework, and may take additional time for an associate's degree. The preparatory transfer course-work, which can be taken at RCC, may take up to three years.

Graduation Requirements

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

Prerequisites [1]

Course No.	Course Title	Credits
MTH112	Elementary Functions or higher level math placement score	0-4
WR115	Introduction to Expository Writing or higher level composition placement score	0-3
____	Approved social science elective [2]	0-8
Total Prerequisite Credits		**0-15**

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) with lab	5
PH211	General Physics (Calculus Based) I with lab and recitation	5
WR121	English Composition I	4
		16
Second Term		
ENGR102	Engineering Orientation II: Careers, Skills, and Computer Tools	2
MTH252	Calculus II (Integral) with lab	5
PH212	General Physics (Calculus Based) II with lab and recitation	5
WR122	English Composition II	4
		16
Third Term		
ENGR103	Engineering Orientation III: Careers, Skills, and Computer Tools	2
MTH261	Linear Algebra with lab	5
PH213	General Physics (Calculus Based) III with lab and recitation	5
		12
Fourth Term (Summer)		
MTH254	Vector Calculus with lab	5
MTH256	Differential Equations with lab	5
		10
Total First Year Credits		**54**

Second Year Required Courses

Course No.	Course Title	Credits
Fifth Term		
CHEM221	General Chemistry I with lab and recitation	5
COMM111	Fundamentals of Public Speaking	4
WR227	Technical Writing	4
		13
Sixth Term		
CHEM222	General Chemistry II with lab and recitation	5
ENGR201	Electrical Fundamentals I with lab	3
ENGR211	Statics	3
		11
Seventh Term		
ECON201	Principles of Microeconomics	4
ENGR202	Electrical Fundamentals II with lab	3
____	Approved humanities elective [3]	6-8
		13-15
Total Second Year Credits		**37-39**
Total Credits		**91-93**

1 Prerequisite courses may have additional requirements.

[2] Approved Social Science Electives

Select courses from the following RCC prefixes: ANTH, ECON, GEOG (EXCEPT GEOG100), HST, PS, PSY, SOC or others designated as Social Science Electives by the Oregon Tech Registrar's Office.

[3] Approved Humanities Electives

(Complete up to 8 credits. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design (Composition/Color Theory)	3-3
ART131,132,133*	Introduction to Drawing	3-3-3

ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature I, II, III	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature I, II, III	4-4-4
ENG253,254,255	Survey of American Literature I, II, III	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities I, II, III	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

For more information contact the Science Department:

Grants Pass or Medford. 541.956.7066
Toll free in Oregon . . . . . 800.411.6508, Ext. 7527
email . . . . . .jrittenbach@roguecc.edu
website . . . . . http://go.rogue.edu/department/science
TTY . . . . . Oregon Telecom Relay Service, 711

MANUFACTURING/ENGINEERING TECHNOLOGY

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.

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:

Set up, operate, and program manual 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.

Operate and program CNC mills and lathes to print specifications.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Advanced Standing

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over four years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

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

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MTH111	College Algebra or designated placement score	0-4
MTH112	Elementary Functions or designated placement score	0-4
WR115	Introduction to Expository Writing or designated placement score	0-3
Total Prerequisite Credits		**0-13**

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
WR121	English Composition I	4
		11
Third Term		
MET122	Computer Aided Drafting II: Mechanical (SolidWorks)	3
MFG241	Computer Numerical Control Programming – Mill	4
		7
Fourth Term		
CIS125SS	Spreadsheet Applications or BA285 Advanced Business Applications: Excel	4
WLD101	Welding Fundamentals I	3
——	Social science elective [3]	6-8
		13-15

Total First Year Credits **44-48**

Second Year Required Courses

Course No.	Course Title	Credits
Fifth Term		
MFG242	Computer Aided Manufacturing I: Mastercam	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
		14
Sixth Term		
ENGR211	Statics	3
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
		20
Seventh Term		
CHEM221	Introductory Chemistry with lab and recitation or	
	CHEM221 General Chemistry I with lab and recitation	5
COMM111	Fundamentals of Public Speaking	4
WR227	Technical Writing	4
		13
Total Second Year Credits		**47**
TOTAL PROGRAM CREDITS		**91-95**

[1] Required for graduation.

[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, 6-8 credits.)

Course No.	Course Title	Credits
ANTH110,150	Introduction to Cultural Anthropology/Archaeology	4-4
CJ100	Foundations and Ethics in Criminal Justice	4
CJ110	Introduction to Law Enforcement	4
CJ120	Introduction to the Judicial Process	4
CJ130	Introduction to Corrections	4
CJ200/SOC244	Introduction to Criminology	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
PS201,202,203	U. S. Government I, II, III	3-3-3
PSY101	Psychology of Human Relations	3
PSY119	Psychology of Personal Growth	4
PSY201,202	General Psychology I, II	4-4
PSY219	Introduction to Abnormal Psychology	4
PSY231	Human Sexuality	3
SOC204,205	Introduction to Sociology, American Society	4-4
SOC211	Social Deviance and Social Control	3
SOC213	Race and Ethnicity in the U.S.	4
SOC218	Sociology of Gender	4
SOC225	Social Problems and Solutions	4
SOC228	Environment and Society	4
SOC230	Introduction to Gerontology	4

For more information contact the Manufacturing/Engineering Technology Department:

Grants Pass or Medford 541-245-7902

Toll free in Oregon . . . . . .800-411-6508, Ext. 7902

email . . . . . manufacturing@roguecc.edu

Web address . . . . . www.roguecc.edu/manufacturing

TTY . . . . . Oregon Telecom Relay Service, 711

EARLY CHILDHOOD EDUCATION

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/steps-credentials-oro/#Community%20Colleges and click on Rogue Community College.

Program Learning Outcomes

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

Promote child development and learning across developmental domains in context.

Build family and community partnerships based on understanding and valuing the complex characteristics of children's families and communities.

Utilize child observation, documentation, and assessment in appropriate ways to promote positive outcomes for children.

Implement developmentally, culturally, and linguistically appropriate teaching practices depending on children's ages and characteristics and on the settings in which teaching and learning occur.

Use content knowledge to build meaningful curriculum by designing, implementing and evaluating experiences that promote positive development and learning for each child.

Identify and conduct themselves as members of the early childhood and/or elementary education field and be continuous collaborative learners.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Students are also required to provide information regarding their measles immunization status by completing the form found on the RCC Early Childhood and Elementary Education Department website and clicking on ECEE Department Requirements. 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 Pathway Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students completing the required credits in this program with a grade of "C" or better will receive 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
WR115	Introduction to Expository Writing or BT113 Business English I or designated placement score	0-4
Total Prerequisite Credits		**0-6**

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)		
COMM111	Fundamentals of Public Speaking or COMM218 Interpersonal Communication	4
HE250	Personal Health or HPE295 Health and Fitness for Life	3
		7
Fifth Term		
ECE243	Promoting Child Health and Physical Development	3
ECE244	Observation and Assessment	3
ECE254	Preschool Curriculum or ECE255 Infant/Toddler Materials and Activities or ECE256 Primary Curriculum	3
ECE275	Anti-bias Education	3
ED170	Introductory Practicum	1
LIB101	Introduction to Information Literacy, or 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 BT160 Business Math or MTH60 Fundamentals of Algebra I or higher level math as designated by placement score (MTH105 or higher recommended for transfer)	4
		16

Total Second Year Credits **53**

TOTAL PROGRAM CREDITS **96-100**

Approved Program Electives

(one or more courses for a maximum of 4 credits)

Course No.	Course Title	Credits
ECE199	Selected Topics in Early Childhood Education	1-3
ECE242	Parenting Education and Family Support	3
ECE258	Early Childhood Home Visitation	3
ECE295	Management of Early Childhood Programs	3
ED165	Child Development	3
FR101,102,103	First Year French I, II, III	4-4-4
PSY202	General Psychology II	4
SOC204	Introduction to Sociology	4
SOC213	Race and Ethnicity in the U.S.	4
SPAN101,102,103	First Year Spanish I, II, III	4-4-4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
SRV101	Service Learning	1-3
WR110	Understanding English Grammar	2

[1] Required for graduation.

[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 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 completion program was developed as a cooperative venture between SOU and RCC and offers knowledge and application components drawn from curriculum at both institutions.

The Associate of Science degree articulates directly into a bachelor's degree program at SOU that will fulfill the standards of the National Association for the Education of Young Children, as the program objectives are designed to align with the national professional standards.

Students should work closely with their advisors to ensure transferability of this program. They should also contact the SOU School of Education early in the first year of the program to be advised about additional requirements and procedures for admission to SOU. Students transferring to SOU will be required to complete ECE300 at SOU during their first quarter. If students transfer before completing this degree or transfer in a major not covered by prior agreements, their courses will be evaluated individually toward the transfer requirements of the college of their choice.

Program Learning Outcomes

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

Promote child development and learning across developmental domains in context.

Build family and community partnerships based on understanding and valuing the complex characteristics of children's families and communities.

Utilize child observation, documentation, and assessment in appropriate ways to promote positive outcomes for children.

Implement developmentally, culturally, and linguistically appropriate teaching practices depending on children's ages and characteristics and on the settings in which teaching and learning occur.

Use content knowledge to build meaningful curriculum by designing, implementing and evaluating experiences that promote positive development and learning for each child.

Identify and conduct themselves as members of the early childhood and/or elementary education field and be continuous collaborative learners.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Students are also required to provide information regarding their measles immunization status by completing the form found on the RCC ECEE Department website and clicking on ECEE Department Requirements. 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MTH96	Applied Algebra II or MTH95 Intermediate Algebra or designated placement score	0-4
PSY101	Psychology of Human Relations [1]	3
WR115	Introduction to Expository Writing or BT113 Business English I or designated placement score	0-4
Total Prerequisite Credits		**3-13**

General Education Requirements

Course No.	Course Title	Credits
COMM111	Fundamentals of Public Speaking or COMM218 Interpersonal Communication	4
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 [2]	4
GEOG110	Introduction to Cultural and Human Geography	3
WR121	English Composition I	4
WR122	English Composition II or WR227 Technical Writing	4
——	Approved humanities elective [3]	9-12
——	Approved science elective [4]	11
Total General Education Requirements		**43-46**

Core Requirements

Course No.	Course Title	Credits
ECE100	Introduction to Early Childhood Education	3
ECE151	Guiding Children in Group Settings	3
ECE152	Fostering Creativity	3
ECE154	Children's Literature and Literacy	3
ECE161	Infant/Toddler Development	3
ECE163	Preschool/Primary Development	3
ECE175	Developmentally Appropriate Practices	3
ECE240	Play-based Learning	3
ECE241	Promoting Cognitive Development	3
ECE243	Promoting Child Health and Physical Development	3
ECE244	Observation and Assessment	3
ECE245	Promoting Social and Emotional Development of Young Children	3
ECE246	Child, Family and Community	3
ECE248	Children with Disabilities and Their Families or ECE265 Children at Risk	3
ECE250	Infant/Toddler Environment or ECE251 Preschool Environments	3
ECE254	Preschool Curriculum or ECE255 Infant/Toddler Materials and Activities or ECE256 Primary Curriculum	3
ECE261	Advanced Practicum I and Seminar	3
ECE266	Spanish for Early Childhood/Elementary Professionals	3
ECE275	Anti-bias Education	3
ECE285	The Early Childhood Professional	3
ED170	Introductory Practicum	2
Total Core Credits		**62**
TOTAL PROGRAM CREDITS		**105-108**

[1] Required for graduation.

[2] 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

[3] 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
COMM115	Introduction to Intercultural Communication	4
NG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4
ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
IS110	Introduction to International Studies I	4

MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SP115	Introduction to Intercultural Communication	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141	Fundamentals of Acting	4
WR241,242,243	Imaginative Writing I, II, III	4-4-4

[4] Approved Science/Lab Science Electives

(Complete at least three courses, two of which must have labs, from the following list for a minimum of 11 credits. Note that only one course can be a regional field studies course indicated by asterisk.)

Course No.	Course Title	Credits
BI100GB	Introductory Biology (non-lab course)	3
BI100SB	Biology of Human Body Systems (non-lab course)	3
BI101,102,103	Introduction to Biology I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM106	Introductory Biochemistry with lab	4
CHEM221,222,223	General Chemistry I, II, III with lab and recitation	5-5-5
CIS195	Web Authoring I (HTML/CSS) (non-lab course)	4
ENV111	Introduction to Environmental Science (non-lab course)	3
G100	Fundamentals of Geology (non-lab course)	3
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GEOG100	Introduction to Physical Geography (non-lab course)	3
GS104,106,107,108	Physical Science with lab	4-4-4-4
GS170*	Regional Field Studies with lab	4
PH201,202,203	General Physics I, II, III with lab and recitation	5-5-5
PH211,212 ,213	General Physics (Calculus Based) I, II, III with lab and recitation	5-5-5

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

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 across developmental domains in context.

Build family and community partnerships based on understanding and valuing the complex characteristics of children's families and communities.

Utilize child observation, documentation, and assessment in appropriate ways to promote positive outcomes for children.

Implement developmentally, culturally, and linguistically appropriate teaching practices depending on children's ages and characteristics and on the settings in which teaching and learning occur.

Use content knowledge to build meaningful curriculum by designing, implementing and evaluating experiences that promote positive development and learning for each child.

Identify and conduct themselves as members of the early childhood and/or elementary education field and be continuous collaborative learners.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Students are also required to provide information regarding their measles immunization status by completing the form found on the RCC ECEE Department website and clicking on ECEE Department Requirements. 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MTH96	Applied Algebra II [2] or MTH95 Intermediate Algebra or designated placement score	0-4
WR115	Introduction to Expository Writing or BT113 Business English I or designated placement score	0-4
Total Prerequisite Credits		**0-10**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
ED200	Introduction to Teaching or ECE100 Introduction to Early Childhood Education	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 [3]	4
		15
Second Term		
COMM111	Fundamentals of Public Speaking or COMM218 Interpersonal Communication	4
ECE151	Guiding Children in Group Settings	3
ED170	Introductory Practicum	1
WR122	English Composition II or WR227 Technical Writing	4
——	Approved history (social science) elective [4]	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 [5]	3-4
		13-19
Total First Year Credits		**44-50**

Second Year Required Courses

Course No.	Course Title	Credits
Fourth Term		
ECE246	Child, Family and Community	3
ED170	Introductory Practicum	1
MTH211	Fundamentals of Elementary Math I w/lab [6]	5
——	Approved humanities elective [3]	3-4
——	Approved lab science elective [5]	4-5
		16-18
Fifth Term		
ECE244	Observation and Assessment	3
ECE256	Primary Curriculum (ECE)	3
MTH212	Fundamentals of Elementary Math II w/lab [6]	5
——	Approved lab science elective [5]	4
		15
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 [3]	4
		16
Total Second Year Credits		**47-49**
TOTAL PROGRAM CREDITS		**91-99**

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] Required for graduation.

[2] MTH96 is not accepted as a pre-requisite for MTH211 at Southern Oregon University as it is at Rogue Community College. Students intending to take MTH211 at SOU, who take MTH96, will need to take the SOU Placement Test to determine that they have met the prerequisite.

[3] 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
COMM115	Introduction to Intercultural Communication	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
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 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

[5] Approved Science/Lab Science Electives

(Complete at least three courses, 11-15 credits, from the following list. At least two courses must have labs, and at least one course must be a physical science and one a biological science. Note that only one course can be a regional field studies course indicated by asterisk.)

Course No.	Course Title	Credits
BI100GB	Introductory Biology (non-lab course)	3
BI100SB	Biology of Human Body Systems (non-lab course)	3
BI101,102,103	Introduction to Biology I, II, III with lab	4-4-4
BI121,122	Elementary Anatomy and Physiology I, II with lab	4-4
BI211,212,213	General Biology I, II, III with lab	4-4-4
BI231,232,233	Anatomy and Physiology I, II, III with lab	4-4-4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
CHEM105	Introductory Organic Chemistry with lab	4
CHEM106	Introductory Biochemistry with lab	4
CIS195	Web Authoring I (HTML/CSS) (non-lab course)	4
ENV111	Introduction to Environmental Science (non-lab course)	3
G100	Fundamentals of Geology (non-lab course)	3
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GEOG100	Introduction to Physical Geography (non-lab course)	3
GS104,106,107,108	Physical Science with lab	4-4-4-4
GS170*	Regional Field Studies with lab	4

[6] MTH213 highly recommended for transfer.

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

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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/steps-credentials-oro/#Community%20Colleges and click on Rogue Community College.

Program Learning Outcomes

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

Promote child development and learning across developmental domains in context.

Build family and community partnerships based on understanding and valuing the complex characteristics of children's families and communities.

Utilize child observation, documentation, and assessment in appropriate ways to promote positive outcomes for children.

Implement developmentally, culturally, and linguistically appropriate teaching practices depending on children's ages and characteristics and on the settings in which teaching and learning occur.

Use content knowledge to build meaningful curriculum by designing, implementing and evaluating experiences that promote positive development and learning for each child.

Identify and conduct themselves as members of the early childhood and/or elementary education field and be continuous collaborative learners.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Students are also required to provide information regarding their measles immunization status by completing the form found on the RCC Early Childhood and Elementary Education Department website and clicking on ECEE Department Requirements. 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 Pathway Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

Students 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition [1]	3-4
Total Prerequisite Credits		**3-6**

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 [2]	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 BT160 Business Math or higher level math as designated by placement score or MTH60 Fundamentals of Algebra I (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] Required for graduation.

[2] 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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TTY . . . . . Oregon Telecom Relay Service, 711

Early Childhood Education (Intermediate)

Career Pathway Certificate

About the Program

The Early Childhood Education three-term program prepares students to work with young children from birth through 8 years of age and their families in a variety of settings including child care centers, family child care, preschools, Head Start, school age programs, home visiting, and parent education. It is planned to accommodate both full- and part-time students including those currently employed in the field.

The program has as its foundation the basic certificate which also fulfills the formal training requirement for the Child Development Associate (CDA) credential. The three-term intermediate certificate is the second step on the career pathway leading to the one-year certificate and the AAS degree. The intermediate certificate prepares students to work as teacher assistants in child care programs, Head Start, or other early childhood settings.

For the corresponding relationship of the early childhood education coursework to the Oregon Registry: Pathways to Professional Recognition in Childhood Care and Education, go to www.pdx.edu/occd/steps-credentials-oro/#Community%20Colleges and click on Rogue Community College.

Program Learning Outcomes

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

Promote child development and learning across developmental domains in context.

Build family and community partnerships based on understanding and valuing the complex characteristics of children's families and communities.

Utilize child observation, documentation, and assessment in appropriate ways to promote positive outcomes for children.

Implement developmentally, culturally, and linguistically appropriate teaching practices depending on children's ages and characteristics and on the settings in which teaching and learning occur.

Use content knowledge to build meaningful curriculum by designing, implementing and evaluating experiences that promote positive development and learning for each child.

Identify and conduct themselves as members of the early childhood and/or elementary education field and be continuous collaborative learners.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Students are also required to provide information regarding their measles immunization status by completing the form found on the RCC Early Childhood and Elementary Education Department website and clicking on ECEE Department Requirements. 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 Pathway Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

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

Prerequisites

Course No.	Course Title	Credits
WR115	Introduction to Expository Writing or	
	BT113 Business English I or designated placement score	0-4
Total Prerequisite Credits		**0-4**

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 score.

[2] Prerequisite WR90.

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

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TTY . . . . . Oregon Telecom Relay Service, 711

Early Childhood Education (Basic)

Career Pathway Certificate

About the Program

The Early Childhood Education program prepares students to work with young children from birth through 8 years of age and their families in a variety of settings including child care centers, family child care, preschools, Head Start, school age programs, home visiting, and parent education. It is planned to accommodate both full- and part-time students including those currently employed in the field.

The program has as its foundation the one-term basic certificate which also fulfills the formal training requirement for the Child Development Associate (CDA) credential. The basic certificate prepares students to work in entry-level positions in child care programs, Head Start, or other early childhood settings. Students may choose to complete the CDA assessment process to achieve the CDA credential. The early childhood basic certificate is the first step in the Early Childhood Education career pathway leading to the intermediate certificate, the one-year certificate, and the AAS degree.

For the corresponding relationship of the Early Childhood Education coursework to the Oregon Registry: Pathways to Professional Recognition in Childhood Care and Education, go to www.pdx.edu/occd/steps-credentials-oro/#Community%20Colleges and click on Rogue Community College.

Program Learning Outcomes

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

Promote child development and learning across developmental domains in context.

Build family and community partnerships based on understanding and valuing the complex characteristics of children's families and communities.

Utilize child observation, documentation, and assessment in appropriate ways to promote positive outcomes for children.

Implement developmentally, culturally, and linguistically appropriate teaching practices depending on children's ages and characteristics and on the settings in which teaching and learning occur.

Use content knowledge to build meaningful curriculum by designing, implementing and evaluating experiences that promote positive development and learning for each child.

Identify and conduct themselves as members of the early childhood and/or elementary education field and be continuous collaborative learners.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Students must score above RD90 and WR90 or WR91 in order to take ECE courses but no minimal score is required in math. 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 ECEE Department Requirements. 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 Pathway Certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Completion Requirements

Students completing the required credits in this program with a grade of "C" or better will receive 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 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:

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FAMILY SUPPORT SERVICES

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:

Exhibit understanding of a two-generation approach in creating healthy, stable, and attached families.

Effectively demonstrate understanding that positive reciprocal relationships are the foundation of work with children and families and demonstrate empathy and genuineness in the establishment of supportive partnerships.

Demonstrate an understanding of children's developmental characteristics and needs in context and the importance of fostering family and community engagement to promote children's positive development.

Function effectively as a member of a team in providing services, designing programs, and integrating knowledgeable, reflective, and critical perspectives on working with families.

Demonstrate effective collaboration with other agencies and organizations working and advocating for the benefit of families.

Demonstrate an understanding of ethical decision making principles and practices within the helping relationship.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Some of these sites may require a background check in order for a student to participate. Future employment serving children and families will require a background check. Students may wish to consider going through a background check process to be ready for potential observation, practicum, and employment experiences – check with an Early Childhood and Elementary Education advisor for additional information.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Early Childhood and Elementary Education Department chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with the Early Childhood and Elementary Education Department chair to determine placement.

Graduation Requirements

To graduate, students must complete all courses in this program with a grade of "C" or better. Certain prerequisite courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade.

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
PSY101	Psychology of Human Relations [1]	3
WR115	Introduction to Expository Writing or BT113 Business English I or designated placement score	0-4
Total Prerequisite Credits		**3-9**

First Year Required Courses

Course No.	Course Title	Credits
First Term		
ECE125	Early Childhood Development	3
LIB127	Introduction to Academic Research, or	

	LIB101 Introduction to Information Literacy	1
PSY201	General Psychology I	4
SOC243/CJ243	Drugs, Crime and Addiction	4
WR121	English Composition I or	
	BT114 Business English II	4
		16

Second Term

HE250	Personal Health or	
	HPE295 Health and Fitness for Life	3
HS155	Interviewing Theory and Techniques	4
PSY202	General Psychology II	4
		14

Third Term

ECE275	Anti-bias Education or	
	SOC213 Race and Ethnicity in America	3-4
HC100	Community Health Worker	6
HS158	Trauma-informed Care: Theory and Practice	3
PSY215	Lifespan Human Development	4
		16-17

Total First Year Credits **46-47**

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
		14
Sixth Term		
COMM111	Fundamentals of Public Speaking or	
	COMM115 Intercultural Communication or	
	COMM218 Interpersonal Communication	4
ECE242	Parent Education and Family Support	3
HS261	Human Services Practicum and Seminar	4
MTH63	Applied Algebra I or	
	BT160 Business Math I or higher level math or	
	MTH60 Fundamentals of Algebra I	4
——	Approved program elective	0-4
		15-19
Total Second Year Credits		**47-51**
TOTAL PROGRAM CREDITS		**93-98**

Approved Program Electives

Course No.	Course Title	Credits
ECE161	Infant/Toddler Development	3
ECE163	Preschool/Primary Development	3
ECE243	Promoting Child Health and Physical Development	3
ECE246	Child, Family and Community	3
ECE248	Children with Disabilities and Their Families	3
ECE266	Spanish for Early Childhood/Elementary Professionals	3
PHL101	Philosophical Problems	4
PHL102	Ethics	4
PHL103	Critical Reasoning	4
PSY219	Introduction to Abnormal Psychology	4
PSY228	Introduction to Positive Psychology	4
PSY231	Human Sexuality	3
SOC204	Introduction to Sociology	4
SOC205	American Society	4
SOC218	Sociology of Gender	4
SOC225	Social Problems and Solutions	4
SOC235/HST259	The Chicano/Latino Historical Experience	4
SPAN101,102,103	First Year Spanish I, II, III	4-4-4
FR101,102,103	First Year French I, II, III	4-4-4
WR110	Understanding English Grammar	2

[1] 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
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:

Exhibit understanding of a two-generation approach in creating healthy, stable, and attached families.

Effectively demonstrate understanding that positive reciprocal relationships are the foundation of work with children and families and demonstrate empathy and genuineness in the establishment of supportive partnerships.

Demonstrate an understanding of children's developmental characteristics and needs in context and the importance of fostering family and community engagement to promote children's positive development.

Function effectively as a member of a team in providing services, designing programs, and integrating knowledgeable, reflective, and critical perspectives on working with families.

Demonstrate effective collaboration with other agencies and organizations working and advocating for the benefit of families.

Demonstrate an understanding of ethical decision making principles and practices within the helping relationship.

Entry Requirements

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

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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MTH20	Pre-algebra or designated placement score	0-4
PSY101	Psychology of Human Relations	3
WR115	Introduction to Expository Writing or BT113 Business English I or higher level composition class [1]	3-4
Total Prerequisite Credits		**6-13**

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 BT160 Business Math or higher level math or MTH60 Fundamentals of Algebra I	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/HST259	The Chicano/Latino Historical Experience	4

[1] 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. 7066 or Ext. 7504
email . . . . . ecee@roguecc.edu
Web address . . . . . www.roguecc.edu/ecee
TTY . . . . . Oregon Telecom Relay Service, 711

Family Support Services
Career Pathway Certificate

About the Program

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

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

Program Learning Outcomes

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

Exhibit understanding of a two-generation approach in creating healthy, stable, and attached families.

Effectively demonstrate understanding that positive reciprocal relationships are the foundation of work with children and families and demonstrate empathy and genuineness in the establishment of supportive partnerships.

Demonstrate an understanding of children's developmental characteristics and needs in context and the importance of fostering family and community engagement to promote children's positive development.

Function effectively as a member of a team in providing services, designing programs, and integrating knowledgeable, reflective, and critical perspectives on working with families.

Demonstrate effective collaboration with other agencies and organizations working and advocating for the benefit of families.

Demonstrate an understanding of ethical decision making principles and practices within the helping relationship.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Many courses in this department require participation in community schools, programs, and agencies for observation and practicum experiences. Some of these sites may require a background check in order for a student to participate. Future employment serving children and families will require a background check. Students may wish to consider going through a background check process to be ready for potential observation, practicum, and employment experiences – check with an Early Childhood and Elementary Education advisor for additional information.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college policies and the Early Childhood and Elementary Education Department chair's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements. Each College Now credit student must meet with the Early Childhood and Elementary Education Department chair to determine placement.

Graduation Requirements

To graduate, students must complete all courses in this program with a grade of "C" or better. Certain prerequisite courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade.

Prerequisites

Course No.	Course Title	Credits
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
PSY101	Psychology of Human Relations	3
WR115	Introduction to Expository Writing or BT113 Business English I or designated placement score	0-4
Total Prerequisite Credits		**3-9**

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**

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

HUMAN SERVICES

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 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 require¬ments. 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
COMM111	Fundamentals of Public Speaking	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
WR121	English Composition I	4
Total Prerequisite Credits		**15-17**

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
HS158	Trauma-informed Care: Theory and Practice	3
HS202	Counseling the Chemically Dependent Client I	3
PSY228	Introduction to Positive Psychology	4
		16
Total First Year Credits		**52**

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. or SOC218 Sociology of Gender, or SOC235 The Chicano/Latino Historical Experience	4
		13
Total Second Year Credits		**48**
TOTAL PROGRAM CREDITS		**100**

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

For more information contact the Human Services Department:

Grants Pass or Medford. 541-245-7504
Toll free in Oregon . . . . . .800-411-6508, Ext. 7504
email . . . . . .humanservices@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

Final articulation agreement pending at time of catalog print. See program advisor for updated information.

About the Program

The Associate of Science degree is based on a signed articulation agreement with Southern Oregon University (SOU). It has been developed in close cooperation with the School of Social Sciences,

Health and Physical Education at SOU. The SOU departments of psychology and sociology/anthropology offer an interdisciplinary bachelor's degree program focusing on the needs of human service professionals, a Bachelor of Arts or Science in Social Science. RCC's Associate of Science (AS) degree is articulated with SOU's Human Service program.

Students should contact the SOU Human Services program early in the first year of the AS program to be advised about additional requirements and procedures for admission to the school or program. Students should be aware that if they transfer before completing this degree, courses will be evaluated individually toward the general education requirements in effect at SOU.

Program Learning Outcomes

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

Apply principals of ethical decision making in the human services field and practice ethical behavior in relation to self and others within the helping relationship.

Establish rapport and a therapeutic alliance with clients through the demonstration of empathy, genuineness, congruence, and unconditional positive regard.

Promote personal growth in self and others by practicing positive living, optimism, self-examination and willingness to change.

Exhibit sensitivity and insight into the wide variety of problems in living experienced by individuals and groups in contemporary society.

Demonstrate clinical skills of screening, assessment, treatment planning, termination and referral.

Incorporate knowledge about the interrelated effects of addictions, poverty, mental and physical illness, and homelessness on family dynamics and intimate relationships in an integrated approach to addressing issues of family and intimate partner violence, child abuse and neglect.

Demonstrate specific skills in active listening, motivational interviewing, group counseling, crisis intervention and management, and counseling chemically dependent, traumatized, mentally ill and emotionally disturbed clients, as well as those with co-occurring mental health and addictions diagnoses.

Function effectively as a member of a team in providing services, designing programs, and working collaboratively among agencies and organizations for the benefit of clients and the community.

Actively engage in continuing education, lifelong learning and pro-active self-care.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

Prospective students should be aware of entry requirements of human services agencies prior to considering human services as a career choice. Practicum placement may require passing a criminal history background check. The inability to pass this check may preclude completion of the program. Students in recovery seeking placement in substance abuse treatment programs may also be required to demonstrate two years' sobriety. More information is available from the Human Services Department.

Human Services is a limited-entry program requiring completion of an application that includes a writing sample and personal references. For more information on how to apply, including application deadlines, visit the Human Services website, www.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 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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
COMM111	Fundamentals of Public Speaking	4
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or designated placement score [2]	0-4
PSY101	Psychology of Human Relations	3
WR121	English Composition I	4
Total Prerequisite Credits		**11-17**

General Education Requirements

Course No.	Course Title	Credits
LIB127	Introduction to Academic Research	1
MTH243	Probability and Statistics with lab [2]	4
SOC204	Introduction to Sociology	4
WR122	English Composition II or WR227 Technical Writing	4
——	Approved humanities electives [3]	9-11
——	Approved science electives [4]	11-12
Total General Education Requirements		**33-36**

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		
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
		14
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
HS268	Co-occurring Disorders: Introductory Theory and Counseling	3
		7

Sixth Term

HS265	Counseling Theories	3
SOC230	Introduction to Gerontology	4
		7

Total Core Credits **64**

TOTAL PROGRAM CREDITS **97-100**

[1] Required for graduation.

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

[3] Approved Humanities Electives

(Complete at least three courses from the following list, 9-11 credits.)

Course No.	Course Title	Credits
ART131	Introduction to Drawing	3
ART204,205,206	History of Art I, II, III	4-4-4
COMM115	Introduction to Intercultural Communication	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
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4
TA141	Fundamentals of Acting	4
WR241,242,243	Imaginative Writing I, II, III	4-4-4

[4] Approved Science/Lab Science Electives

(Complete at least three courses 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
CIS195	Web Authoring I (HTML/CSS) (non-lab course)	4
G100	Fundamentals of Geology (non-lab course)	3
G101,102,103	Introduction to Geology I, II, III with lab	4-4-4
GEOG100	Introduction to Physical Geography (non-lab course)	3
GS104,106,107,108	Physical Science with lab	4-4-4-4
GS170 *	Regional Field Studies with lab	4

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

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 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.

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
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years	0-2
COMM111	Fundamentals of Public Speaking	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
WR121	English Composition I or higher level composition	4
Total Prerequisite Credits		**15-17**

Required Courses

Course No.	Course Title	Credits
HE208	HIV and Infectious Diseases [2]	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 [3]	7
HS268	Co-occurring Disorders: Introductory Theory and Counseling	3
PSY219	Introduction to Abnormal Psychology [4]	4
PSY231	Human Sexuality or HS204 Counseling Chemically Dependent Client II or PSY228 Introduction to Positive Psychology or SOC230 Introduction to Gerontology	3-4
SOC213	Race and Ethnicity in the U.S.	4
SOC243	Drugs, Crime and Addiction	4
TOTAL PROGRAM CREDITS		**51-52**

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

[2] May be completed fall or spring term.

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

[4] 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

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 in the twenty-first century. Diversity and sustainability are issues that present great challenges as well as incredible opportunities to create strong, thriving communities that meet the needs of their members and the environment.

Community development includes nurturing the integration of diverse groups to work together for common interests and the expansion of sustainable practices. Community development is studied holistically, including learning communication skills, how to effectively utilize the diversity inherent in American communities, and how people can live sustainably.

Completing the Sustainable Community Development focus award is an excellent addition to a resume. Knowledge of sustainability and diversity issues may be skills employers consider. Students should be aware that prerequisites exist for most courses, so they should plan accordingly.

Program Learning Outcomes

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

Communication and Community: Demonstrate the ability to communicate effectively within a group setting. Demonstrate knowledge of community issues, needs, strengths, problems and resources.

Diversity: Analyze the relationship between diversity and social inequality and demonstrate knowledge of ways diverse groups can work together.

Sustainability: Apply the concept of sustainability in examining human relationships with the environment and identify sustainable solutions to environmental problems.

At least six of the credits of the Focus Award must be completed at RCC.

Required courses

Course No.	Course Title	Credits
SOC213	Race and Ethnicity in the U.S. or SOC218 Sociology of Gender	4
SOC228	Environment and Society	4
SRV101	Service Learning	1
TOTAL REQUIRED CREDITS		**9**

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
COMM111	Fundamentals of Public Speaking	4
COMM115	Introduction to Intercultural Communication	4
COMM218	Interpersonal 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
REL243	Nature, Religion and Ecology (if not taken as part of Sustainability electives)	4
SOC213	Race and Ethnicity in the U.S. (if not taken as part of Required)	4
SOC218	Sociology of Gender (if not taken as part of Required)	4
SOC235/HST259	The Chicano/Latino Historical Experience	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 (if not taken as part of Diversity electives)	4
——	Cooperative Work Experience classes as approved within major 1	3
TOTAL ELECTIVE CREDITS		**9-13**
TOTAL FOCUS AWARD CREDITS		**18-22**

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 trans¬fer 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

Boatnik Parade, 1980

Architecture Interest
Associate of General Studies Degree

A total of 90 credits are required to complete the Associate of General Studies (AGS) degree. The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AGS framework. See the AGS graduation guide for full degree requirements. The following list includes recommended courses for students who have an interest in architecture, primarily focused on developing skills necessary for entry into an architecture, but may also be accepted as core required freshman architecture courses by the specific institution.

Students must research the specific requirements of the architectural program they plan to transfer into; all such programs, in Oregon and nationally, are rigorous, conservatory-based programs, requiring generally five years of full-time study, accepting limited transfer credits. Students will have to be accepted into the program before they can begin study. The great majority of the classwork is program-specific, students work in a cohort setting, and the courses are offered only at the transfer institution. Students are encouraged to work closely with their RCC academic advisors and visit the transfer school of choice website for specific admission and academic major requirements.

Course No.	Course Title	Credits
ART132	Introduction to Drawing (Line) [1]	3
ART204	Art History I [1]	4
ART205	Art History II [1]	4
ART206	Art History III [1]	4
ART276	Sculpture I [1]	3
DDM160	Digital Imaging (Photoshop) [1]	3
MTH111	College Algebra	4
MTH112	Elementary Functions	4
PH201	General Physics I with lab and recitation [1]	5
PH202	General Physics II with lab and recitation [1]	5
PH203	General Physics III with lab and recitation [1]	5
WR121	English Composition I	4
WR122	English Composition II	4

[1] University-recommended courses. Check with the specific transfer institution for more details.

Oregon public universities offering degrees in architecture:

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

Art Interest
Associate of Arts Oregon Transfer Degree

A total of 90 credits are required to complete the Associate of Arts Oregon Transfer (AAOT) degree. The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AAOT framework. See the AAOT graduation guide for full degree requirements. It is recommended that students also consult with the transfer college of choice regarding specific prerequisites since requirements for an art major vary at each university.

Course No.	Course Title	Credits	AAOT Category
ART115	Basic Design I	3	Elective
ART116	Basic Design II	3	Elective
ART131	Introduction to Drawing	3	Elective
ART204	History of Art I	4	Humanities
ART205	History of Art II	4	Humanities
ART206	History of Art III	4	Humanities
ART253,254,255	Introduction to Ceramics I, II, III	3	Elective
ART276,277,278	Sculpture I, II, III	3	Elective
ART281,282,283	Painting I, II, III	3	Elective
MTH105	Intro to Contemporary Mathematics	4	Math
SPAN201	Second Year Spanish I	4	Humanities
SPAN202	Second Year Spanish II	4	Humanities
SPAN203	Second Year Spanish III	4	Humanities

Note: Three courses required in the Humanities category. Additional courses would count as electives.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	www.eou.edu
Oregon State University	www.oregonstate.edu
Oregon State University – Cascades	www.osucascades.edu
Portland State University	www.pdx.edu
Southern Oregon University	www.sou.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

Art Interest
Associate of General Studies Degree

A total of 90 credits are required to complete the Associate of General Studies degree. The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AGS framework. See the AGS graduation guide for full degree requirements. This course of study is designed to provide a foundation for students planning to transfer to private art schools, and for students wanting to develop their portfolios and depth of expertise within different mediums. Requirements at different schools vary, so students should consult their programs of interest for more specific guidance.

Course No.	Course Title	Credits
ART115	Basic Design I (Composition)	3
ART116	Basic Design II (Color Theory)	3
ART131	Introduction to Drawing (Value)	3
ART132	Introduction to Drawing (Line)	3
ART198	Independent Study: Portfolio	1
ART204	History of Art I	4
ART205	History of Art II	4
ART206	History of Art III	4
ART234	Figure Drawing I	3
ART237	Illustration (Black and White Media)	3
ART253	Ceramics I	3
ART257	Beginning Jewelry and Metalsmithing	3
ART276	Sculpture I	3
ART281	Painting I	3
ART294	Watercolor I	3
	Advanced studio courses (ART282/283 Painting II, III, ART277/278 Sculpture II, III, ART235/236 Figure Drawing II, III, ART254/255 Ceramics II, III, ART258/259 Intermediate/ Advanced Jewelry and Metalsmithing, ART295/296 Watercolor II, III, ART238/239 Illustration II, III)	9-12
CIS120	Concepts in Computing I	2
COMM111	Fundamentals of Public Speaking	4
DDM160	Digital Imaging (Photoshop)	3
LIB127	Introduction to Academic Research	1
MTH105	Introduction to Contemporary Math or higher	4
PSY101	Psychology of Human Relations	3
WR121	English Composition I	4
	Lab Science	4
	Social Science	4
	Physical Activity Course	3

Biology Interest
Associate of General Studies Degree

A total of 90 credits are required to complete the Associate of General Studies (AGS) degree. The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AGS framework. See the AGS graduation guide for full degree requirements. It is recommended that students also consult with the transfer college of choice regarding specific prerequisites since requirements for a biology major vary at each university.

Course No.	Course Title	Credits	AGS Category
BI211	General Biology I	4	Science
BI212	General Biology II	4	Science
BI213	General Biology III	4	Science
CHEM105	Introductory Organic Chemistry	4	Science
CHEM105R	Introductory Organic Chemistry Recitation	1	Science
CHEM106	Introductory Biochemistry	4	Science
CHEM106R	Introductory Biochemistry Recitation	1	Science
CHEM221	General Chemistry I	5	Science
CHEM222	General Chemistry II	5	Science
CHEM223	General Chemistry III	5	Science
MTH243	Probability and Statistics	4	Math
MTH251	Calculus I	5	Math
MTH252	Calculus II	5	Math
PH201	General Physics I	5	Science
PH202	General Physics II	5	Science
PH203	General Physics III	5	Science
WR227	Technical Writing	4	Elective

Note: Four courses required in the Science/Math category, additional courses would count as electives.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	www.eou.edu
Oregon Tech	www.oit.edu
Oregon State University	www.oregonstate.edu
Southern Oregon University	www.sou.edu
Portland State University	www.pdx.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

Chemistry Interest
Associate of General Studies Degree

A total of 90 credits are required to complete the Associate of General Studies (AGS) degree. The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AGS framework. See the AGS graduation guide for full degree requirements. It is recommended that a student also consult with the transfer college of choice regarding specific prerequisites since requirements for a chemistry major vary at each university.

Course No.	Course Title	Credits	AGS Category
CHEM105	Introductory Organic Chemistry	4	Science
CHEM105R	Introductory Organic Chemistry Recitation	1	Science
CHEM106	Introductory Biochemistry	4	Science
CHEM106R	Introductory Biochemistry Recitation	1	Science
CHEM221	General Chemistry I	5	Science
CHEM222	General Chemistry II	5	Science
CHEM223	General Chemistry III	5	Science
MTH251	Calculus I	5	Math
MTH252	Calculus II	5	Math
MTH253	Calculus III	5	Math
MTH254	Vector Calculus w/lab	5	Math
MTH256	Differential Equations w/lab	5	Math
MTH261	Linear Algebra w/lab	5	Math
PH211	General Physics I (Calculus Based)	5	Science
PH212	General Physics II (Calculus Based)	5	Science
PH213	General Physics III (Calculus Based)	5	Science
WR227	Technical Writing	4	Writing

Note: Four courses required in the Science/Math category. Additional courses would count as electives.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	www.eou.edu
Oregon Tech	www.oit.edu
Oregon State University	www.oregonstate.edu
Portland State University	www.pdx.edu
Southern Oregon University	www.sou.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

English/Literature Interest
Associate of Arts Oregon Transfer Degree

A total of 90 credits are required to complete the Associate of Arts Oregon Transfer (AAOT) degree and the courses listed below are only meant to serve as a guide of recommended choices within categories required in the AAOT framework. See the AAOT graduation guide for full degree requirements. It is recommended that a student also consult with the transfer college of choice regarding specific prerequisites since requirements for an English/literature major vary at each university.

Term 1

Course No.	Course Title	Credits	AAOT Category
CG100	College Success and Survival [1]	2	Elective
ENG204	Survey of English Literature: Medieval to Renaissance	4	Humanities
LIB127	Introduction to Academic Research [1]	1	Elective
MTH243	Probability and Statistics	4	Mathematics
WR121	English Composition I	4	Writing

Term 2

Course No.	Course Title	Credits	AAOT Category
COMM111	Fundamentals of Public Speaking	4	Communication
ENG205	Survey of English Literature: 18th Century to Romantic	4	Humanities
GS104	Physical Science w/lab	4	Science
WR122	English Composition II	4	Writing

Term 3

Course No.	Course Title	Credits	AAOT Category
ENG206	Survey of English Literature: Victorian to Modern	4	Humanities
GS107	Physical Science: Astronomy w/lab	4	Science
HST104	World Civilizations: Prehistory – Middle Ages	4	Social Science
PHL101	Philosophical Problems	4	Humanities

Term 4

Course No.	Course Title	Credits	AAOT Category
GS108	Physical Science Oceanography	4	Science
HST105	World Civilizations: Byzantium – Present	4	Social Science

PHL102	Ethics	4	Humanities
SPAN101	First Year Spanish I [1]	4	Elective

Term 5

Course No.	Course Title	Credits	AAOT Category
PHL103	Critical Reasoning	4	Humanities
PSY201	General Psychology I	4	Social Science
SPAN102	First Year Spanish II [1]	4	Elective

Term 6

Course No.	Course Title	Credits	AAOT Category
HE250	Personal Health	3	Fitness/Health
NFM225	Nutrition	4	Science, non-lab
PSY202	General Psychology II	4	Social Science
SPAN103	First Year Spanish III [1]	4	Elective

[1] Two years of a college-level world language is required for a Bachelor of Arts degree.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	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
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
COMM111	Fundamentals of Public Speaking	4	Humanities
ECON201	Principles of Microeconomics	4	Social Science
MTH111	College Algebra	4	Math
MTH112	Elementary Functions	4	Math
MTH243	Probability & Statistics	4	Math
MTH251	Calculus I	5	Math
MTH252	Calculus II	5	Math
PH201	General Physics I w/Lab and Recitation	5	Science
PH202	General Physics II w/Lab and Recitation	5	Science
WR121	English Composition I	4	Writing
WR122	English Composition II	4	Writing
WR227	Technical Writing	4	Elective

It is recommended that students plan to transfer to the four-year school after completing the first year of courses at RCC. Academic courses required for environmental sciences are offered only at the four-year institutions.

Oregon public universities offering degrees in this subject:

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

Geology Interest
Associate of General Studies Degree

A total of 90 credits are required to complete the Associate of General Studies (AGS) degree. The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AGS framework. See the AGS graduation guide for full degree requirements. It is recommended that a student also consult with the transfer college of choice regarding specific prerequisites since requirements for a geology major vary at each university.

Course No.	Course Title	Credits	AAOT Category
CHEM221	General Chemistry I	5	Science
CHEM222	General Chemistry II	5	Science
CHEM223	General Chemistry III	5	Science
G101	Introduction to Geology I	4	Science
G102	Introduction to Geology II	4	Science
G103	Introduction to Geology III	4	Science
MTH111	College Algebra	4	Math
MTH112	Elementary Functions	4	Math
MTH251	Calculus I	5	Math
MTH252	Calculus II	5	Math
MTH253	Calculus III	5	Math
PH211	General Physics I (Calculus Based)	5	Science
PH212	General Physics II (Calculus Based)	5	Science
PH213	General Physics III (Calculus Based)	5	Science
WR227	Technical Writing	4	Writing

Note: Four courses required in the Science/Math category. Additional courses would count as electives.

Oregon public universities offering degrees in this subject:

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

Health/Exercise Science/ Physical Education Interest
Associate of Arts Oregon Transfer Degree

A total of 90 credits are required to complete the Associate of Arts Oregon Transfer (AAOT) degree and the courses listed below are only meant to serve as a guide of recommended choices within categories required in the AAOT framework. See the AAOT graduation guide for full degree requirements. It is recommended that a student also consult with the transfer college of choice regarding specific prerequisites since requirements for a health/exercise science/P.E. major vary at each university.

Course No.	Course Title	Credits	AAOT Category
BI211	General Biology I with lab	4	Science
BI212	General Biology II with lab	4	Science
BI231	Anatomy and Physiology I with lab	4	Science
BI232	Anatomy and Physiology II with lab	4	Science
BI233	Anatomy and Physiology III with lab	4	Science
HE250	Personal Health	3	Health/PE
HE253	Wilderness First Aid	3	Health/PE
HE259	Care and Prevention of Athletic Injury	3	Health/PE

HPE295	Health and Fitness for Life	3	Health/PE
PE185	Activity courses	6	Health/PE
MTH243	Probability and Statistics	4	Math
NFM225	Nutrition	4	Science

Note: Four courses required in the science/math category. Additional courses would count as electives. See specific university requirements for Social Science and Humanities transfer courses.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	www.eou.edu
Oregon State University	www.oregonstate.edu
Portland State University	www.pdx.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

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
HST104	World Civilizations: Prehistory - Middle Ages	4	Social Science
HST105	World Civilizations: Byzantium - Present	4	Social Science
HST201	U.S. History through Reconstruction	4	Social Science
HST202	U.S. History: Post-Reconstruction - Present	4	Social Science
MTH243	Probability and Statistics w/lab [1]	4	Math
SOC235/HST259	The Chicano/Latino Historical Experience	4	Social Science

Recommended Electives:

ANTH150	Introduction to Archaeology	4	Social Science
ENG107	World Literature: Ancient to Classical	4	Humanities
ENG108	World Literature: Medieval to Renaissance	4	Humanities
ENG109	World Literature: Enlightenment to Modern	4	Humanities
ENG204	Survey of English Literature: Medival to Renasissance	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
ENG257	African American Literature	4	Humanities
ENG260	Introduction to Women Writers	4	Humanities
HUM215	Native American Arts/Cultures (Eskimo/Inuit)	4	Humanities
HUM216	Native American Arts/Cultures (Peoples of Northwest Coast)	4	Humanities
HUM217	Native American Arts/Cultures (Nations of the Plains)	4	Humanities
MUS108	Music in World Cultures	4	Humanities
REL201	World Religions	4	Humanities
SPAN201 [2]	Second Year Spanish I	4	Humanities
SPAN202 [2]	Second Year Spanish II	4	Humanities
SPAN203 [2]	Second Year Spanish III	4	Humanities

[1] Students should inquire with their receiving institution as to whether MTH243 is accepted.

[2] Two years of a college-level World Language is required for a Bachelor of Arts degree.

Note: Three courses required in the Humanities category. Additional courses would count as electives.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	www.eou.edu
Oregon State University	www.oregonstate.edu
Portland State University	www.pdx.edu
Oregon Tech	www.oit.edu
Southern Oregon University	www.sou.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

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

Physics Interest
Associate of General Studies Degree

A total of 90 credits are required to complete the Associate of General Studies (AGS) degree. The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AGS framework. See the AGS graduation guide for full degree requirements. It is recommended that a student also consult with the transfer college of choice regarding specific prerequisites since requirements for a physics major vary at each university.

Course No.	Course Title	Credits	AAOT Category
CHEM221	General Chemistry I	5	Science
CHEM222	General Chemistry II	5	Science
CHEM223	General Chemistry III	5	Science
MTH251	Calculus I	5	Math
MTH252	Calculus II	5	Math
MTH253	Calculus III	5	Math
MTH254	Vector Calculus	5	Math
MTH256	Differential Equations	5	Math
MTH261	Linear Algebra	5	Math
PH211	General Physics I (Calculus Based)	5	Science
PH212	General Physics I (Calculus Based)	5	Science
PH213	General Physics I (Calculus Based)	5	Science
WR227	Technical Writing	4	Elective

Note: Four courses required in the Science/Math category. Additional courses would count as electives.

Oregon public universities offering degrees in this subject:

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

Pre-dental Hygiene Interest (Oregon Tech)

Associate of General Studies Degree

The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AGS framework. See the AGS graduation guide for full degree requirements. The following list includes recommended courses for students who have an interest in pre-dental hygiene.

The program listed below is designed to meet the requirements for the pre-dental hygiene program at Oregon Tech. The plan of study is meant to serve as a guide of recommended courses to satisfy the requirements for application to the program. Students are strongly encouraged to work closely with their RCC academic advisors and visit the transfer school's website for all current admission and academic major requirements. Other courses may be available to complete prior to transfer.

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
BI231	Anatomy and Physiology I with lab	4
BI232	Anatomy and Physiology II with lab	4
BI233	Anatomy and Physiology III with lab	4
BI234	Microbiology with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
COMM111	Fundamentals of Public Speaking	4
MTH243	Probability and Statistics *	4
NFM225	Nutrition	4
SOC204	Introduction to Sociology	4
WR121	English Composition I	4
WR122	English Composition II	4
WR227	Technical Writing	4

*Course required by the Dental Hygiene program for graduation but is not required for admittance into the program. MTH95 is a requirement for admission to Oregon Tech and a prerequisite to Oregon Tech's MTH243.

Pre-medical Imaging Interest (Oregon Tech)

Associate of General Studies Degree

A total of 90 credits are required to complete the Associate of General Studies (AGS) degree. The courses listed below are only meant to serve as a guide of recommended choices within categories required in the AGS framework. See the AGS graduation guide for full degree requirements. The following list includes recommended courses for students who have an interest in pre-medical imaging.

The courses listed below are designed to meet the requirements for the pre-medical imaging program at Oregon Tech. The plan of study is meant to serve as a guide of recommended courses to satisfy the requirements for application to the program. Students are strongly encouraged to work closely with their RCC academic advisors and visit the transfer school's website for all current admission and academic major requirements. There may be other courses that can be completed prior to transfer.

Course No.	Course Title	Credits
AH100	Medical Terminology: Introduction	3
BI231	Anatomy and Physiology I with lab	4
BI232	Anatomy and Physiology II with lab	4
BI233	Anatomy and Physiology III with lab	4
CHEM104	Introductory Chemistry with lab and recitation	5
COMM111	Fundamentals of Public Speaking	4
MTH111	College Algebra	4
MTH112	Elementary Functions	4
PSY201	General Psychology I	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 Tech	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

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

Recommended Electives:

SOC213	Race and Ethnicity in the U.S.	4	Social Science
SOC218	Sociology of Gender	4	Social Science
SOC228	Environment and Society	4	Social Science
SOC230	Introduction to Gerontology	4	Social Science
SOC243	Drugs, Crime and Addiction	4	Social Science

Note: Four courses required in the social science category. Additional courses would count as electives.

Oregon public universities offering degrees in this subject:

Eastern Oregon University	www.eou.edu
Oregon State University	www.oregonstate.edu
Portland State University	www.pdx.edu
Oregon Tech	www.oit.edu
Southern Oregon University	www.sou.edu
University of Oregon	www.uoregon.edu
Western Oregon University	www.wou.edu

Construction Trades, General Apprenticeship
Associate of Applied Science Degree

About the Program

The Construction Trades, General Apprenticeship program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. The degree is available only to BOLI-registered apprentices. If you are interested in becoming a registered apprenticeship in an Oregon state apprenticeship program, contact the Apprenticeship office at 541-245-7912. RCC supports the following BOLI-ATD trades: HVAC/R, plumber and sheet metal (8,000-hour trades).

The AAS degree is a credential within Rogue Community College's Construction Trades, General Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, ladder-type certificate of completion, and an optional transfer path into a bachelor of science degree at Oregon Tech. The degree features general education courses prescribed by Rogue Community College, related training credits previously earned in the certificate of completion, college credit for an earned journey-level card, and some industry electives. It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

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 the Construction Trades General Apprenticeship AAS program are:

Complete a minimum of 6000-8000 hours State of Oregon-approved on-the-job training (OJT).

Repair, install and maintain a variety of building construction projects using trade specific tools and techniques in compliance with building codes and OSHA regulations.

Seventy-five percent of applicants have documented trade-specific skills listed on the Construction Trades, General Apprenticeship Outcomes Assessment Tool.

Complete required related training with a grade C or better.

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 level as determined by placement 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 approval of the department chair.

Graduation Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship Certificate and be recommended by the Joint Apprenticeship and Training Committee or Trades Apprenticeship and Training Committee. This degree does not guarantee licensure.

General Education Requirements

Course No.	Course Title	Credits
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
HE112	Emergency First Aid	1
LIB127	Introduction to Academic Research	1
MTH60	Fundamentals of Algebra I or MTH63 Applied Algebra I or higher level math	4
WR115	Introduction to Expository Writing [2]	3
WR121	English Composition I [2]	4
Total General Education Credits		**16-18**

Credit for Prior Certification (Work-based Learning) [3]

Course No.	Course Title	Credits
APR105	Apprenticeship Credit for Prior Learning • HVAC/R – 22 credits • Plumber – 22 credits • Sheet Metal – 22 credits	22
Total Credit for Prior Certification		**22**

HVAC/R

Course No.	Course Title	Credits
APR107A	Apprenticeship/HVAC: Basics	4
APR107B	Apprenticeship/HVAC: Air Conditioning	4
APR107C	Apprenticeship/HVAC: Safety and Environmental Controls	4
APR107D	Apprenticeship/HVAC: Electrical Basics	4
APR107E	Apprenticeship/HVAC: Electrical Circuit I	4
APR107F	Apprenticeship/HVAC: Electrical Circuit II	4
APR207A	Apprenticeship/HVAC: Systems I	4
APR207B	Apprenticeship/HVAC: Systems II	2
APR207C	Apprenticeship/HVAC: Systems III	2
APR207D	Apprenticeship/HVAC: Airflow and Systems Control I	4
APR207E	Apprenticeship/HVAC: Airflow and Systems Control II	4
APR207F	Apprenticeship/HVAC: Operations and Systems Review	4
Total HVAC Credits		**44**

Plumber

Course No.	Course Title	Credits
APR111A	Apprenticeship Introduction to Plumbing Skills	4
APR111B	Apprenticeship Plumbing Principles I	4
APR111C	Apprenticeship Plumbing Principles II	4
APR111D	Apprenticeship Mathematics of Plumbing and Commercial Drawing	4
APR111E	Apprenticeship Water Piping and Fixture Installation	4
APR111F	Apprenticeship Installation of DWV Systems and Water Heaters	4
APR211A	Apprenticeship Water Supply Systems	4
APR211B	Apprenticeship Plumbing DWV and Compressed Air Systems	4
APR211C	Apprenticeship Plumbing Backflow Prevention	4
APR211D	Apprenticeship Review of Oregon Plumbing Code	4
APR211E	Apprenticeship Test Preparation I	4
APR211F	Apprenticeship Test Preparation II	4
Total Plumbing Credits		**48**

Sheet Metal

Course No.	Course Title	Credits
APR118A	Apprenticeship Introduction to Sheet Metal	3
APR118B	Apprenticeship Duct Lay Out	3
APR118C	Apprenticeship Parallel Line Development	3
APR118D	Apprenticeship Applied Field Practices	3
APR118E	Apprenticeship Architecture Sheet Metal	3
APR118F	Apprenticeship Round Fittings	3

APR218A	Apprenticeship Duct Design	3
APR218B	Apprenticeship Field Math	3
APR218C	Apprenticeship Triangulation	3
APR218D	Apprenticeship Industry Standard	3
APR218E	Apprenticeship Specialty Items	3
APR218F	Apprenticeship Advanced Sheet Metal	3
Total Sheet Metal Credits		**36**

Approved Program Electives

Course No.	Course Title	Credits
——	Any college-level course (numbered 100 or above) to meet minimum degree requirement	0-16
MINIMUM TOTAL PROGRAM CREDITS		**90**

[1] Required for graduation.

[2] In lieu of WR115 and WR121, students may substitute BT113 Business English I and BT114 Business English II (8 credits total); or BT113 Business English I (or WR115 Introduction to Expository Writing) and 3 or 4 credits of speech (COMM100 Basic Communication, COMM111 Fundamentals of Public Speaking, or COMM218 Interpersonal Communication), 6-8 credits total.

[3] A maximum of 22 credits can be earned for documented work-based learning for registered apprentices and journey persons. Students must provide a State of Oregon Apprenticeship Training Journeyman card or BOLI-ATD certificate.

For more information, contact the Apprenticeship office:

Grants Pass or Medford. 541-245-7912
Toll free in Oregon . . . . . .800-411-6508, Ext. 7912
email. . . . . .apprenticeship@roguecc.edu
Web address . . . . . www.roguecc.edu/apprenticeship
TTY . . . . . Oregon Telecom Relay Service, 711

Construction Trades, General Apprenticeship

Certificate of Completion

About the Program

The Construction Trades, General Apprenticeship certificate program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. The certificate is available only to BOLI-registered apprentices. If you are interested in becoming registered in an Oregon state apprenticeship program, contact the Apprenticeship office at 541-245-7912. RCC supports the following BOLI-ATD trades: HVAC/R, plumber and sheet metal (8,000-hour trades).

The certificate is a credential within Rogue Community College's Construction Trades, General Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, a ladder-type certificate of completion, and an optional transfer path into a bachelor of science degree at Oregon Tech. This program features general education courses prescribed by Rogue Community College, related training credits, college credit for an earned journey-level card, and some industry electives. It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program Learning Outcomes for the Construction Trades General Apprenticeship Certificate program are:

Complete a minimum of 6000 to 8000 hours State of Oregon-approved on-the-job training (OJT).

Repair, install, and maintain a variety of building construction projects using trade specific tools and techniques compliance with building codes and OSHA regulations.

Seventy-five percent of applicants have documented trade-specific skills listed on the Construction Trades, General Apprenticeship Outcomes Assessment Tool.

Complete required related training with a grade C or better.

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 level as determined by placement 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 approval of the department chair.

Credits earned in the successful completion of Career Pathways Certificates can be applied to other certificates and degrees in the Career Pathway.

Graduation Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship Certificate and be recommended by the Joint Apprenticeship and Training Committee or the Trades Apprenticeship and Training Committee. This certificate does not guarantee licensure.

General Education Requirements

Course No.	Course Title	Credits
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MTH60	Fundamentals of Algebra I or MTH63 Applied Algebra I or higher level math	4
WR115	Introduction to Expository Writing or higher level composition	3
Total General Education Credits		**10-12**

HVAC/R

Course No.	Course Title	Credits
APR107A	Apprenticeship/HVAC: Basics	4
APR107B	Apprenticeship/HVAC: Air Conditioning	4
APR107C	Apprenticeship/HVAC: Safety and Environmental Controls	4
APR107D	Apprenticeship/HVAC: Electrical Basics	4
APR107E	Apprenticeship/HVAC: Electrical Circuit I	4
APR107F	Apprenticeship/HVAC: Electrical Circuit II	4
APR207A	Apprenticeship/HVAC: Systems I	4
APR207B	Apprenticeship/HVAC: Systems II	2
APR207C	Apprenticeship/HVAC: Systems III	2
APR207D	Apprenticeship/HVAC: Airflow and Systems Control I	4
APR207E	Apprenticeship/HVAC: Airflow and Systems Control II	4
APR207F	Apprenticeship/HVAC: Operations and Systems Review	4
Total HVAC Credits		**44**

Plumber

Course No.	Course Title	Credits
APR111A	Apprenticeship Introduction to Plumbing Skills	4
APR111B	Apprenticeship Plumbing Principles I	4
APR111C	Apprenticeship Plumbing Principles II	4
APR111D	Apprenticeship Mathematics of Plumbing and Commercial Drawing	4
APR111E	Apprenticeship Water Piping and Fixture Installation	4
APR111F	Apprenticeship Installation of DWV Systems and Water Heaters	4
APR211A	Apprenticeship Water Supply Systems	4
APR211B	Apprenticeship Plumbing DWV and Compressed Air Systems	4
APR211C	Apprenticeship Plumbing Backflow Prevention	4

APR211D	Apprenticeship Review of Oregon Plumbing Code	4
APR211E	Apprenticeship Test Preparation I	4
APR211F	Apprenticeship Test Preparation II	4
Total Plumbing Credits		**48**

Sheet Metal

Course No.	Course Title	Credits
APR118A	Apprenticeship Introduction to Sheet Metal	3
APR118B	Apprenticeship Duct Lay Out	3
APR118C	Apprenticeship Parallel Line Development	3
APR118D	Apprenticeship Applied Field Practices	3
APR118E	Apprenticeship Architecture Sheet Metal	3
APR118F	Apprenticeship Round Fittings	3
APR218A	Apprenticeship Duct Design	3
APR218B	Apprenticeship Field Math	3
APR218C	Apprenticeship Triangulation	3
APR218D	Apprenticeship Industry Standard	3
APR218E	Apprenticeship Specialty Items	3
APR218F	Apprenticeship Advanced Sheet Metal	3
Total Sheet Metal Credits		**36**
TOTAL PROGRAM CREDITS		**46-60**

[1] Required for graduation.

For more information, contact the Apprenticeship office:

Grants Pass or Medford. 541-245-7912
Toll free in Oregon . . . . . .800-411-6508, Ext. 7912
email . . . . . .apprenticeship@roguecc.edu
Web address . . . . . www.roguecc.edu/apprenticeship
TTY . . . . . Oregon Telecom Relay Service, 711

Electrician Apprenticeship Technologies

Associate of Applied Science Degree

About the Program

The Electrician Apprenticeship Technologies program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. The degree is available only to BOLI-registered apprentices or electricians holding a journey-level card. If you are interested in becoming a registered apprentice in an Oregon state apprenticeship program, contact the Apprenticeship office at 541-245-7912. RCC supports the following BOLI-ATD trades: limited maintenance electrician (4,000-hour trade); inside electrician, limited manufacturing plant electrician, and sign assembler/maker (8,000-hour trades).

The AAS degree is a credential within Rogue Community College's Electrician Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, ladder-type certificates of completion, and an optional transfer path into a bachelor of science degree at Oregon Tech. The degree features general education courses prescribed by Rogue Community College, related training credits previously earned in the certificate of completion, college credit for an earned journey-level card, and some industry electives. It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

Program Learning Outcomes

Complete 6000-8000 hours State of Oregon-approved on-the-job-training. Apply theory to electrical wiring.

Repair and install electrical wire devises according to licensure regulations to meet NEC and OSC for inside electrician, limited energy technician-license A, limited manufacturing plant electrician, sign assembler/fabricator, sign maker/erector, and stationary engineer.

Seventy-five percent of applicants have documented trade-specific skills listed on the Electrician Apprenticeship Trades Outcomes Assessment Tool.

Complete all required related-training with a grade of C or better.

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 level as determined by placement 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 approval of the department chair.

Credits earned in the successful completion of Career Pathways Certificates can be applied to other certificates and degrees in the Career Pathway.

Graduation Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship Certificate and be recommended by the Joint Apprenticeship and Training Committee or Trades Apprenticeship and Training Committee. This degree does not guarantee licensure.

General Education Requirements

Course No.	Course Title	Credits
BT101	Human Relations in Organizations or	
	PSY101 Psychology of Human Relations	3
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
HE112	Emergency First Aid	1
LIB127	Introduction to Academic Research	1
MTH60	Fundamentals of Algebra I or	
	MTH63 Applied Algebra I or higher level math	4
WR115	Introduction to Expository Writing [2]	3
WR121	English Composition I [2]	4
Total General Education Credits		**16-18**

Credit for Prior Certification (Work-based Learning) [3]

Course No.	Course Title	Credits
APR105	Apprenticeship Credit for Prior Learning • Limited Electrician – 11 credits • Inside Electrician – 22 credits • Manufacturing Plant Electrician – 22 credits • Sign Assembler/Maker – 22 credits	11-22
Total Credit for Prior Certification		**11-22**

Related Training

Limited Maintenance Electrician

Course No.	Course Title	Credits
APR127A	Apprenticeship Electrical Theory I	4
APR127B	Apprenticeship Electrical Theory II	4
APR127C	Apprenticeship Electrical Theory III	4
APR227A	Apprenticeship National Electrical Code I	4
APR227B	Apprenticeship National Electrical Code II	4
APR227C	Apprenticeship National Electrical Code III	4
Total Limited Maintenance Electrician Credits		**24**

Inside Electrician

Course No.	Course Title	Credits
APR127A	Apprenticeship Electrical Theory I	4
APR127B	Apprenticeship Electrical Theory II	4
APR127C	Apprenticeship Electrical Theory III	4
APR127D	Apprenticeship Advanced Electrical I	4
APR127E	Apprenticeship Advanced Electrical II	4
APR127F	Apprenticeship Advanced Electrical III	4
APR227A	Apprenticeship National Electrical Code I	4
APR227B	Apprenticeship National Electrical Code II	4
APR227C	Apprenticeship National Electrical Code III	4
APR227D	Apprenticeship Oregon Electrical License Preparation I	4
APR227E	Apprenticeship Oregon Electrical License Preparation II	4
APR227F	Apprenticeship Oregon Electrical License Preparation III	4
Total Inside Electrician Credits		**48**

Manufacturing Plant Electrician

Course No.	Course Title	Credits
APR127A	Apprenticeship Electrical Theory I	4
APR127B	Apprenticeship Electrical Theory II	4
APR127C	Apprenticeship Electrical Theory III	4
APR127D	Apprenticeship Advanced Electrical I	4
APR127E	Apprenticeship Advanced Electrical II	4
APR227A	Apprenticeship National Electrical Code I	4
APR227B	Apprenticeship National Electrical Code II	4
APR227C	Apprenticeship National Electrical Code III	4
APR227D	Apprenticeship Oregon Electrical License Preparation I	4
APR227E	Apprenticeship Oregon Electrical License Preparation II	4
APR227F	Apprenticeship Oregon Electrical License Preparation III	4
Total Manufacturing Plant Electrician Credits		**44**

Sign Assembler/Maker

Course No.	Course Title	Credits
APR116E	Apprenticeship Welding I	2
APR116F	Apprenticeship Welding II	2
APR118A	Apprenticeship Introduction to Sheet Metal	3
APR118B	Apprenticeship Duct Lay Out	3
APR118C	Apprenticeship Parallel Line Development	3
APR127A	Apprenticeship Electrical Theory I	4
APR127B	Apprenticeship Electrical Theory II	4
APR127C	Apprenticeship Electrical Theory II	4
APR216C	Apprenticeship Millwright: Drafting	3
APR216F	Apprenticeship Millwright: Rigging	4
APR227E	Apprenticeship Oregon Electrical License Preparation II	4
APR227F	Apprenticeship Oregon Electrical License Preparation III	4
Total Sign Assembler/Maker Credits		**40**

Approved Program Electives

Course No.	Course Title	Credits
——	Any college-level course (numbered 100 or above) to meet minimum degree requirement	0-39
MINIMUM TOTAL PROGRAM CREDITS REQUIRED		**90**

[1] Required for graduation.

[2] In lieu of WR115 and WR121, students may substitute BT113 Business English I and BT114 Business English II (7-8 credits total); or BT113 Business English I (or WR115 Introduction to Expository Writing) and three credits of speech (COMM100 Basic Communication, COMM111 Fundamentals of Public Speaking, or COMM218 Interpersonal Communication), 6-8 credits total.

[3] A maximum of 22 credits can be earned for documented work-based learning for registered apprentices and journey persons. Students must provide a State of Oregon Apprenticeship Training Journeyman card or BOLI-ATD certificate.

For more information, contact the Apprenticeship office:

Grants Pass or Medford 541-245-7912
Toll free in Oregon . . . . . 800-411-6508, Ext. 7912
email . . . . . apprenticeship@roguecc.edu
Web address . . . . . www.roguecc.edu/apprenticeship
TTY . . . . . Oregon Telecom Relay Service, 711

Electrician Apprenticeship Technologies
Certificate of Completion

About the Program

The Electrician Apprenticeship Technologies program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. The certificate is available only to BOLI-registered apprentices. If you are interested in becoming a registered apprentice in an Oregon state apprenticeship program, contact the Apprenticeship office at 541-245-7912. RCC supports the following 8,000-hour BOLI-ATD trades: inside electrician, limited manufacturing plant electrician, and sign assembler/maker.

This certificate is a credential within Rogue Community College's Electrician Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, ladder-type certificates of completion, and an optional transfer path into a bachelor of science degree at the Oregon Tech. The certificate features general education courses prescribed by Rogue Community College and related training credits focusing on the repair or installation of electrical wire devices according to NEC and OSC code. It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program Learning Outcomes for the Electrician Apprenticeship Technologies Certificate program are:

Complete a minimum of 6000 to 8000 hours State of Oregon-approved on-the-job training (OJT).

Repair, install, and maintain a variety of building construction projects using trade specific tools and techniques in compliance with building codes and OSHA regulations.

Seventy-five per cent of applicants have documented trade-specific skills listed on the Construction Trades, General Apprenticeship Outcomes Assessment Tool.

Complete required related training with a grade C or better.

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 level as determined by placement 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 approval of the department chair.

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

Graduation Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship Certificate and be recommended by the Joint Apprenticeship and Training Committee or the Trades Apprenticeship and Training Committee. This certificate does not guarantee licensure.

General Education Requirements

Course No.	Course Title	Credits
BT101	Human Relations in Organizations or	
	PSY101 Psychology of Human Relations	3
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MTH60	Fundamentals of Algebra I or	
	MTH63 Applied Algebra I or higher level math	4
WR115	Introduction to Expository Writing or higher level composition	3
Total General Education Credits		**10-12**

Related Training

Inside Electrician

Course No.	Course Title	Credits
APR127A	Apprenticeship Electrical Theory I	4
APR127B	Apprenticeship Electrical Theory II	4
APR127C	Apprenticeship Electrical Theory III	4
APR127D	Apprenticeship Advanced Electrical I	4
APR127E	Apprenticeship Advanced Electrical II	4
APR127F	Apprenticeship Advanced Electrical III	4
APR227A	Apprenticeship National Electrical Code I	4
APR227B	Apprenticeship National Electrical Code II	4
APR227C	Apprenticeship National Electrical Code III	4
APR227D	Apprenticeship Oregon Electrical License Preparation I	4
APR227E	Apprenticeship Oregon Electrical License Preparation II	4
APR227F	Apprenticeship Oregon Electrical License Preparation III	4
Total Inside Electrician Credits		**48**

Manufacturing Plant Electrician

Course No.	Course Title	Credits
APR127A	Apprenticeship Electrical Theory I	4
APR127B	Apprenticeship Electrical Theory II	4
APR127C	Apprenticeship Electrical Theory III	4
APR127D	Apprenticeship Advanced Electrical I	4
APR127E	Apprenticeship Advanced Electrical II	4
APR227A	Apprenticeship National Electrical Code I	4
APR227B	Apprenticeship National Electrical Code II	4
APR227C	Apprenticeship National Electrical Code III	4
APR227D	Apprenticeship Oregon Electrical License Preparation I	4
APR227E	Apprenticeship Oregon Electrical License Preparation II	4
APR227F	Apprenticeship Oregon Electrical License Preparation III	4
Total Manufacturing Plant Electrician Credits		**44**

Sign Assembler/Maker

Course No.	Course Title	Credits
APR116E	Apprenticeship Welding I	2
APR116F	Apprenticeship Welding II	2
APR118A	Apprenticeship Introduction to Sheet Metal	3
APR118B	Apprenticeship Duct Lay Out	3
APR118C	Apprenticeship Parallel Line Development	3
APR127A	Apprenticeship Electrical Theory I	4
APR127B	Apprenticeship Electrical Theory II	4
APR127C	Apprenticeship Electrical Theory II	4
APR216C	Apprenticeship Millwright: Drafting	3
APR216F	Apprenticeship Millwright: Rigging	4
APR227E	Apprenticeship Oregon Electrical License Preparation II	4
APR227F	Apprenticeship Oregon Electrical License Preparation III	4
Total Sign Assembler/Maker Credits		**40**
TOTAL PROGRAM CREDITS REQUIRED		**50-60**

[1] Required for graduation.

For more information, contact the Apprenticeship office:

Grants Pass or Medford. 541-245-7912
Toll free in Oregon . . . . . .800-411-6508, Ext. 7912
e-mail . . . . . .apprenticeship@roguecc.edu
Web address . . . . . www.roguecc.edu/apprenticeship
TTY . . . . . Oregon Telecom Relay Service, 711

Electrician Apprenticeship Technologies: Limited Electrician Apprenticeship Technologies

Certificate of Completion

About the Program

The Limited Electrician Apprenticeship Technologies less than one-year certificate program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. This certificate is available only to BOLI-registered apprentices. If you are interested in becoming a registered apprentice in an Oregon state apprenticeship program, contact the Apprenticeship office at 541-245-7912. RCC supports the following 4,000-hour BOLI-ATD trade: limited maintenance electrician.

The certificate is a credential within Rogue Community College's Electrician Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, ladder-type certificates of completion, and an optional transfer path into a bachelor of science degree at Oregon Tech. The certificate features related training credits specific to the limited maintenance electrician trade in order to repair or install electrical wire devices according to NEC and OSC code. It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program Learning Outcomes for the Electrician Apprenticeship Technologies: Limited Certificate program are:

Complete 4000 hours State of Oregon-approved on-the-job-training (OJT).

Repair or install electrical wire devices according to limited licensure regulations to meet NEC and OSC code for limited energy technician-license B, limited maintenance electrician, limited renewable energy technician, and limited residential electrician.

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 level as determined by placement 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 approval of the department chair.

Credits earned in the successful completion of Career Pathway Certificates can be applied to other certificates and degrees in the Career Pathway.

Graduation Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship Certificate and be recommended by the Joint Apprenticeship and Training Committee or Trades Apprenticeship and Training Committee. This certificate does not guarantee licensure.

Related Training

Course No.	Course Title	Credits
APR127A	Apprenticeship Electrical Theory I	4
APR127B	Apprenticeship Electrical Theory II	4
APR127C	Apprenticeship Electrical Theory III	4
APR227A	Apprenticeship National Electrical Code I	4
APR227B	Apprenticeship National Electrical Code II	4
APR227C	Apprenticeship National Electrical Code III	4
TOTAL PROGRAM CREDITS REQUIRED		**24**

For more information, contact the Apprenticeship office:

Grants Pass or Medford 541-245-7912
Toll free in Oregon ..... 800-411-6508, Ext. 7912
email .....apprenticeship@roguecc.edu
Web address ..... www.roguecc.edu/apprenticeship
TTY ..... Oregon Telecom Relay Service, 711

Industrial Mechanics and Maintenance Technology Apprenticeship

Associate of Applied Science Degree

About the Program

The Industrial Mechanics and Maintenance Technology Apprenticeship program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint and Trades Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. The degree is available only to BOLI-registered apprentices. If you are interested in becoming a registered apprentice in an Oregon state apprenticeship program, contact the Apprenticeship office at 541-245-7912. RCC supports these BOLI-ATD trades: airframe/power plant technician and boiler operator (4,000 hours); tool and die maker, millwright and motor winder (8,000 hours).

This AAS degree is a credential within Rogue Community College's Industrial Mechanics and Maintenance Technology Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, ladder-type certificates of completion, and an optional transfer path into a bachelor of science degree at Oregon Tech. If students intend to transfer to 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.

The degree features general education courses prescribed by Rogue Community College, related training credits previously earned in the certificate of completion, college credit for an earned journey-level card, and some industry electives. It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for Industrial Mechanics and Maintenance Technology Apprenticeship AAS are:

Complete a minimum of 4000 hours State of Oregon approved on-the job training (OJT).

Repair, install and maintain a variety of industrial equipment using trade specific tools and techniques in compliance with state regulations.

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 level as determined by placement 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 approval of the department chair. Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway. For more information, speak to a program advisor.

Graduation Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship certificate and be recommended by the Joint Apprenticeship and Training Committee or Trades Apprenticeship and Training Committee. This degree does not guarantee licensure.

General Education Requirements

Course No.	Course Title	Credits
BT101	Human Relations in Organizations or	
	PSY101 Psychology of Human Relations	3
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
HE112	Emergency First Aid	1
LIB127	Introduction to Academic Research	1
MTH60	Fundamentals of Algebra I or	
	MTH63 Applied Algebra I or higher level math	4
WR115	Introduction to Expository Writing [2]	3
WR121	English Composition I [2]	4
Total General Education Credits		**16-18**

Credit for Prior Certification (Work-based Learning) [3]

Course No.	Course Title	Credits
APR105	Apprenticeship Credit for Prior Learning • Airframe and Power Plant Technician – 16 credits • Boiler Operator – 11 credits • Millwright – 22 credits	11-22
Total Credit for Prior Certification		**11-22**

Airframe and Power Plant Technician

Course No.	Course Title	Credits
APR129A	Apprenticeship Aviation Overview	6
APR129B	Apprenticeship Aircraft Systems I	6
APR129C	Apprenticeship Aircraft Systems II	6
APR129F	Apprenticeship Basic Electrical Theory	3
APR229A	Apprenticeship Power Plant Systems and Flight Controls	6
APR229B	Apprenticeship Structural Inspection and Repair	6
APR229C	Apprenticeship National Electrical Code III	4
TOTAL PROGRAM CREDITS REQUIRED		**37**

Boiler Operator & Repairer

Course No.	Course Title	Credits
APR120A	Apprenticeship Electrical Theory I	4
APR120B	Apprenticeship Electrical Theory II	4
APR120C	Apprenticeship Electrical Theory III	4
APR120D	Apprenticeship National Electrical Code I	4
APR120E	Apprenticeship National Electrical Code II	4
APR120F	Apprenticeship National Electrical Code III	4
TOTAL PROGRAM CREDITS REQUIRED		**24**

Millwright

Course No.	Course Title	Credits
APR116A	Apprenticeship Millwright: Basic Electricity	4
APR116B	Apprenticeship Millwright: Carpentry	2
APR116C	Apprenticeship Millwright: Power Transmissions	2
APR116D	Apprenticeship Millwright: Boilers	4
APR116E	Apprenticeship Millwright: Welding I	2
APR116F	Apprenticeship Millwright: Welding II	2
APR216A	Apprenticeship Millwright: Machine Shop I	2
APR216B	Apprenticeship Millwright: Machine Shop II	2
APR216C	Apprenticeship Millwright: Drafting	4
APR216D	Apprenticeship Millwright: Hydraulics and Pneumatics I	2
APR216E	Apprenticeship Millwright: Hydraulics and Pneumatics II	2
APR216F	Apprenticeship Millwright: Rigging	4
TOTAL PROGRAM CREDITS REQUIRED		**32**

Approved Program Electives

Course No.	Course Title	Credits
—	Any college-level course (numbered 100 or above) to meet minimum degree requirement	2-39
MINIMUM TOTAL PROGRAM CREDITS REQUIRED		**90**

[1] Required for graduation.

[2] In lieu of WR115 and WR121, students may substitute BT113 Business English I and BT114 Business English II (8 credits total); or BT113 Business English I (or WR115 Introduction to Expository Writing) and three or four credits of speech (COMM100 Basic Communication, COMM111 Fundamentals of Public Speaking, or COMM218 Interpersonal Communication), 6-8 credits total.

[3] A maximum of 22 credits can be earned for documented work-based learning for registered apprentices and journey persons. Students must provide a State of Oregon Apprenticeship Training Journeyman card or BOLI-ATD certificate.

For more information, contact the Apprenticeship office:

Grants Pass or Medford. 541-245-7912
Toll free in Oregon . . . . . .800-411-6508, Ext. 7912
email . . . . . .apprenticeship@roguecc.edu
Web address . . . . . www.roguecc.edu/apprenticeship
TTY . . . . . Oregon Telecom Relay Service, 711

Industrial Mechanics and Maintenance Technology Apprenticeship

Certificate of Completion

About the Program

The Industrial Mechanics and Maintenance Technology Apprenticeship certificate program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint and Trade Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. This certificate is available only to BOLI-registered apprentices. If you are interested in becoming a registered apprentice in an Oregon state apprenticeship program, contact the Apprenticeship office at 541-245-7912. RCC supports these 8,000-hour BOLI-ATD trades: tool and die maker, millwright and motor winder.

The certificate is a credential within Rogue Community College's Industrial Mechanics and Maintenance Technology Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, ladder-type certificates of completion, and an optional transfer path into a bachelor of science degree at the Oregon Tech. It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

Program Learning Outcomes

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

Complete a minimum of 4000 hours State of Oregon approved on-the job training (OJT).

Repair, install and maintain a variety of industrial equipment using trade specific tools and techniques in compliance with state regulations.

Seventy-five percent of applicants have documented trade-specific skills listed on the Industrial Mechanics and Maintenance Technology Apprenticeship Trades Outcomes Assessment Tool.

Complete required related training with a grade C or better.

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 level as determined by placement 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 approval of the department chair. Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway.

Graduation Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship certificate and be recommended by the Joint Apprenticeship and Training Committee or the Trades Apprenticeship and Training Committee. This certificate does not guarantee licensure.

General Education Requirements

Course No.	Course Title	Credits
BT101	Human Relations in Organizations or PSY101 Psychology of Human Relations	3
CIS/CS	Approved Computer Information Science or Computer Science class, CIS120/CS120 or above, or documented computer proficiency within the past ten years [1]	0-2
MTH60	Fundamentals of Algebra I or MTH63 Applied Algebra I or higher level math	4
WR115	Introduction to Expository Writing or higher level composition	3
Total General Education Credits		**10-12**

Millwright

Course No.	Course Title	Credits
APR116A	Apprenticeship Millwright: Basic Electricity	4
APR116B	Apprenticeship Millwright: Carpentry	2
APR116C	Apprenticeship Millwright: Power Transmissions	2
APR116D	Apprenticeship Millwright: Boilers	4
APR116E	Apprenticeship Millwright: Welding I	2
APR116F	Apprenticeship Millwright: Welding II	2
APR216A	Apprenticeship Millwright: Machine Shop I	2
APR216B	Apprenticeship Millwright: Machine Shop II	2
APR216C	Apprenticeship Millwright: Drafting	4
APR216D	Apprenticeship Millwright: Hydraulics and Pneumatics I	2
APR216E	Apprenticeship Millwright: Hydraulics and Pneumatics II	2
APR216F	Apprenticeship Millwright: Rigging	4
Total Millwright Credits		**32**
TOTAL PROGRAM CREDITS REQUIRED		**42-44**

[1] Required for graduation.

For more information, contact the Apprenticeship office:
Grants Pass or Medford 541-245-7912
Toll free in Oregon .....800-411-6508, Ext. 7912
email .....apprenticeship@roguecc.edu
Web address ..... www.roguecc.edu/apprenticeship
TTY ..... Oregon Telecom Relay Service, 711

Industrial Mechanics and Maintenance Technology: Mechanical Maintenance Apprenticeship

Career Pathway Certificate

About the Program

The Mechanical Maintenance Apprenticeship certificate program is based on the Bureau of Labor and Industries (BOLI) Oregon State Apprenticeship Training Council and local Joint Apprenticeship Training Committee related training standards. It combines full-time, on-the-job work experience with trade-related theoretical instruction. The certificate is available only to BOLI-registered apprentices. If you are interested in becoming a registered apprentice in an Oregon state apprenticeship program, contact the Apprenticeship office at 541-245-7912. RCC supports these 4,000-hour BOLI-ATD trades: airframe/power plant technician and boiler operator.

The certificate is a credential within Rogue Community College's Industrial Mechanics and Maintenance Technology Apprenticeship Pathway. The pathway model provides statewide transfer opportunities, ladder-type certificates of completion, and an optional transfer path into a bachelor's of science degree at the Oregon Tech. It also provides additional access to related training courses across the state for registered apprentices with aligned program outcomes, assessments and courses.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for the Industrial Mechanics and Maintenance Technology: Mechanical Maintenance Apprenticeship Certificate are:

Complete 4000 hours State of Oregon-approved on-the-job-training (OJT).

Repair or install electrical wire devices according to limited licensure regulations to meet NEC and OSC code for limited energy technician-license B, limited maintenance electrician, limited renewable energy technician, and limited residential electrician.

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 level as determined by placement 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 approval of the department chair. Credits earned in the successful completion of Career Pathways certificates can be applied to other certificates and degrees in the Career Pathway.

Completion Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their certificates. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade. Students must also possess the appropriate Bureau of Labor and Industries Apprenticeship certificate and be recommended by the Joint Apprenticeship and Training Committee or Trades Apprenticeship and Training Committee. This certificate does not guarantee licensure.

Related Training

Airframe and Power Plant Technician

Course No.	Course Title	Credits
APR129A	Apprenticeship Aviation Overview	6
APR129B	Apprenticeship Aircraft Systems I	6
APR129C	Apprenticeship Aircraft Systems II	6
APR129F	Apprenticeship Basic Electrical Theory	3
APR229A	Apprenticeship Power Plant Systems and Flight Controls	6
APR229B	Apprenticeship Structural Inspection and Repair	6
APR229C	Apprenticeship National Electrical Code III	4
TOTAL PROGRAM CREDITS REQUIRED		**37**

Boiler Operator & Repairer

Course No.	Course Title	Credits
APR120A	Apprenticeship Electrical Theory I	4
APR120B	Apprenticeship Electrical Theory II	4
APR120C	Apprenticeship Electrical Theory III	4
APR120D	Apprenticeship National Electrical Code I	4
APR120E	Apprenticeship National Electrical Code II	4
APR120F	Apprenticeship National Electrical Code III	4
TOTAL PROGRAM CREDITS REQUIRED		**24**

For more information, contact the Apprenticeship office:
Grants Pass or Medford 541-245-7912
Toll free in Oregon ..... 800-411-6508, Ext. 7912
email .....apprenticeship@roguecc.edu
Web address ..... www.roguecc.edu/apprenticeship
TTY ..... Oregon Telecom Relay Service, 711

Mechanical engineering, 1980s

Continuing Education

www.roguecc.edu/ContinuingEducation

Continuing Education provides learning opportunities to enhance fulfillment and personal success of residents in the RCC service area. Learning events are in line with and focused on the community's needs in all areas of workforce/business, private/public organizations and personal enrichment.

Continuing Education classes and services include the following:

- Adult Foster Home Provider Training
- Art & Crafts
- Business & Finance
- Certified Production Technician
- Commercial Truck Driver Training
- Computer Training
- Culinary
- Forklift Operator Safety Training
- Driver Education
- Home & Garden
- Language
- Music & Theater
- 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

- 541-956-7118

Customized Training

www.roguecc.edu/Workforce/

- Jackson or Josephine counties. 541-956-7303

Customized Training provides solutions and opportunities for individuals and organizations to succeed. Training is customized to meet employers' or business owners' needs to deliver high quality outcomes.

Curriculum development

Continuing Education works with business leaders to develop curriculum and delivery methods that meet the needs of the organization.

Driver Education

www.rccdrivered.com

541-956-7116

- High School Driver Training
- Adult Driver Training

Short-Term Skills Training

www.roguecc.edu/Workforce/

- Jackson or Josephine counties, 541-956-7303

Josephine or Jackson Counties. Short-term skills training focuses on vocational, professional development and training that meets industry-specific criteria to enhance job skills of incumbent workers.

Workforce development activities benefit job seekers, unemployed or displaced workers, youth, incumbent workers, new entrants to the workforce, veterans, persons with disabilities and employers.

Industry-specific certifications are offered in subject areas such as Certified Production Technician, Commercial Truck Driver Training, Forklift, and Adult and High School Driver Training. Training is held in a hands-on setting with state of the art equipment and trade-experienced instructors. Most trainings are offered as noncredit, certificate of completion status, but many also offer Continuing Education Units (CEUs).

Courses may be offered in a traditional classroom environment, online or in a blended format. Some short-term trainings are composed of a course or series of courses mapped to an industry- recognized certification.

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.

Horse shoeing, 1970s

AH – 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) or designated placement 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, recordkeeping, 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 Certificate 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 Certificate 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 Certificate program.

AH104 (3 credits)
Phlebotomy
Introduces students to the concept of phlebotomy, including, but not limited to venipuncture procedures, specimen processing, and safety and compliance considerations. Additionally, the course prepares students to take the National Healthcareer Association (NHA), Certification Phlebotomy Technician (CPT) exam. Successful completion of this course, along with 30 unaided, successful venipunctures and 10 capillary collections on live individuals, will make students eligible to sit for the NHA CPT credential. This credential allows students to work as a nationally certified phlebotomist for 3 years, before certification renewal is required. Prerequisite: Acceptance into the Phlebotomy or Medical Assistant Certificate 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: Acceptance into 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. Prerequisites: Admission to an Allied Health program. Recommended prerequisite AH100.

AH120 (4 credits)
Medical Administrative Assistant I
The first of two courses that prepare students for careers as medical administrative assistants. Introduces the concepts and skills related to patient and facility scheduling, patient intake, office logistics, privacy, and basic workplace safety. Prerequisite: Acceptance into the Medical Administrative Assistant program.

AH121 (4 credits)
Medical Administrative Assistant II
Builds upon the themes and skills introduced in Medical Administrative Assistant I. 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: Acceptance into the Medical Administrative Assistant program, and 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 Certificate program.

AH130 (4 credits)
Concepts in Medical Insurance and Billing
Explores the fundamentals of health insurance, reimbursement processes and methodologies, billing cycles, payment systems, fee schedules, charge master, and internal audit processes. Includes an introduction to how health information technology is used in medical offices. Students will learn how to apply this information to enter patient charges and payments. Prerequisite: Acceptance into any Allied Health program.

AH140 (4 credits)
Basic CPT Coding
Introduces students to the basic concepts and methodology associated with CPT (Current Procedural Terminology) 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 HCPCS (Healthcare Common Procedure Coding System) coding and the use of codes in reimbursement management will be introduced. Prerequisites: MTH20, RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

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. Prerequisites: MTH20, RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90), or designated placement scores.

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. Prerequisite: Acceptance into the Pharmacy Technician Certificate program.

AH170MAA (2 credits)
Medical Administrative Assistant Practicum
Provides hands-on clinical experience. Students work each week in a host site as part of the patient care team and experience first-hand the various operations within primary, specialty and/or urgent care settings. Duties will be assigned according to students' skill level and the work needs of the host site. Students will participate in three seminars during the term - an orientation seminar to discuss expectations for the term; a mid-term seminar to discuss current activities and exchange details on experiences; and a concluding seminar to reflect on work experiences. Students will be expected to expand their skill set during the sequence. Prerequisite: Acceptance into the Medical Administrative Assistant Certificate program.

AH170MAP (4 credits)
Medical Assistant I Practicum
Provides hands-on clinical experience. Students work each week in a host site as part of the patient care team and experience first-hand the various operations within primary, specialty and/or urgent care settings. Duties will be assigned according to students' skill level and the work needs of the host site. Students will participate in three seminars during the term - an orientation seminar to discuss expectations for the term; a mid-term seminar to discuss current activities and exchange details on experiences; and a concluding seminar to reflect on work experiences. Seminars are attended and moderated by an instructor, who uses the feedback gained to evaluate current practicum experiences and improve future practicum experiences. Students will be expected to expand their skill set during the sequence. Prerequisite: Acceptance into the Medical Assistant Certificate program.

AH170PHL (2 credits)
Phlebotomy Practicum
Provides hands-on clinical experience. Students work each week in a host site as part of the patient care team and experience first-hand the various operations within primary, specialty and/or urgent care settings. Duties will be assigned according to students' skill level and the work needs of the host site. Students will participate in three seminars during the term - an orientation seminar to discuss expectations for the term; a mid-term seminar to discuss current activities and exchange details on experiences; and a concluding seminar to reflect on work experiences. Students will be expected to expand their skill set during the sequence. Prerequisite: Acceptance into the Phlebotomy Career Pathway Certificate program.

AH171MAP (8 credits)
Medical Assistant Practicum II
Provides hands-on clinical experience. Students work each week in a host site as part of the patient care team and experience first-hand the various operations within primary, specialty and/or urgent care settings. Duties will be assigned according to students' skill level and the work needs of the host site. Students will participate in three seminars during the term - an orientation seminar to discuss expectations for the term; a mid-term seminar to discuss current activities and exchange details on experiences; and a concluding seminar to reflect on work experiences. Seminars are attended and moderated by an instructor, who uses the feedback gained to evaluate current practicum experiences and improve future practicum experiences. Students will be expected to expand their skill set during the sequence. Prerequisite: Acceptance into the Medical Assistant Certificate program.

AM – AUTOMOTIVE TECHNOLOGY

Career and Technical Courses

AM111 (3 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 is required for all entering Automotive Technology students, or waiver for equivalent work experience and ASE Electrical Systems certification. Prerequisites: AM120, AM120L and AM122, AM122L.

AM111L (4 credits)
Electricity for Automotive Technicians Lab
Lab associated with AM111.

AM120 (2 credits)
Automotive Maintenance and Practices
Introduces students to industry expectations related to professionalism. Includes communication in the workplace, effective employee/employer relations, and job search skills. Course is for second-year students only. Prerequisites: MTH20, and BT113 or WR115 or designated placement test scores, and an Automotive or Diesel Technology student enrolled as a declared major in the program.

AM120L (4 credits)
Automotive Maintenance and Practices Lab
Lab associated with AM120.

AM122 (3 credits)
Gasoline Engines Rebuild
Reviews theory and construction of various gasoline internal combustion engines and how to rebuild, service, inspect, and repair them. Prerequisites: MTH20 and BT113 or WR115.

AM122L (4 credits)
Gasoline Engines Rebuild Lab
Lab associated with AM122.

AM131 (3 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. Prerequisites:AM120, AM120L or AM122, AM122L.

AM131L (4 credits)
Engine Dynamics & Diagnosis Lab
Lab associated with AM131.

AM141 (3 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, AM120L.

AM141L (3 credits)
Manual Transmissions and Axles Lab
Lab associated with AM141.

AM151 (2 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, AM120L.

AM151L (4 credits)
Automotive Brake Systems Lab
Lab associated with AM151.

AM160 (2 credits)
Auto 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, AM120L.

AM160L (4 credits)
Auto Suspension and Steering Systems Lab
Lab associated with AM160.

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, AM120L.

AM199 (variable credits)
Workshop: Selected Topics
Focuses study in a variety of mechanical technology topics to fulfill specific educational goals. Prerequisites: AM111 and AM120, AM120L and a declared major in the Automotive Technology program.

AM210 (1 credit)
Mechanical Careers Development
Introduces students with industry expectations related to professionalism. Includes communication in the workplace, effective employee/employer relations, and job search skills. Course is for second-year students only. Prerequisites: AM111 and AM120, AM120L.

AM232 (3 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, AM131L.

AM232L (4 credits)
Computerized Engine Management Systems Lab
Lab associated with AM232.

AM233 (4 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, AM232L.

AM233L (3 credits)
Advanced Automotive Computer Systems Lab
Lab associated with AM233.

AM242 (3 credits)
Automatic Transmissions/Transaxles
Covers theory of operation, diagnosis, maintenance, and repair of automotive automatic transmissions and transaxles. Prerequisite:AM141, AM141L.

AM242L (4 credits)
Automatic Transmissions / Transaxles Lab
Lab associated with AM242.

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, AM232L and

AM270 (2 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, AM120L.

AM270L (3 credits)
Air Conditioning for Automotive Technicians Lab
Lab associated with AM270.

AM280 (variable credits)
CWE/Automotive
Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the job, experiential learning based on skills acquired in their programs. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Prerequisite: CWE courses require prior arrangements with faculty or the Department Chair.

AM290 (3 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.

ANTH - ANTHROPOLOGY

Lower Division Collegiate

ANTH110 (4 credits)
Introduction to Cultural Anthropology
Examines human social organizations, the meaning of culture and its diverse forms and structures, cultural growth and expansion, and the nature of cultural change. Explores various key anthropological topics that may include language, ritual, kinship, the arts, globalization, religion and political and economic structures. Examples are drawn from small scale societies and from industrialized societies. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisites: WR115 or BT113 or designated placement score.

ANTH150 (4 credits)
Introduction to Archaeology
Provides an introduction to the science of archaeology: its history, methods, and theory. Citing examples from the prehistoric world, it examines the nature of archaeological data, the application of techniques, and the extrapolation of culture from the archaeological record. In doing so, it illustrates the relationship of culture to environment, a variety of ideas regarding past culture change, and the role of modern archaeology in preserving the past for the future. Fulfills both the social science and cultural literacy requirements within the Associate of Arts Oregon Transfer degree. Prerequisites: WR115 or BT113 or designated placement score.

ANTH199 (variable credits)
Special Studies: Anthropology
Selected topics of study in anthropology are offered on demand through workshops, seminars, lecture, lab, and/or independent study format. Prerequisite: May vary depending on subject offerings.

APR - APPRENTICESHIP

Career and Technical Courses

APR105 (0 credits)
Apprenticeship: Credit for Prior Certification
Credit awarded for documented work-based learning for registered apprentices and journey persons.

APR107A (4 credits)
Apprenticeship/HVAC: Basics
The course provides an introduction of the fundamentals of refrigeration, common refrigeration tools and materials, as well as basic refrigeration systems, compression systems and compressors. The course also includes Basic First Aid. Prerequisite: Registered Apprentice with Rogue Valley HVAC/R JATC.

APR107B (4 credits)
Apprenticeship/HVAC: Air Conditioning and Refrigeration
Covers the introduction and fundamentals of refrigeration that includes: refrigerant controls; domestic refrigerators and freezer; service and installation of small hermetic system; commercial system; hazard communication and safe practices. Prerequisite: Registered Apprentice with Rogue Valley HVAC/R JATC.

APR107C (4 credits)
Apprenticeship/HVAC: Safety and Environmental Controls
Includes refrigerant composition, recovery requirements and Environmental Protection Agency (EPA) rules in HVAC. Students will gain the knowledge to successfully test for the required EPA Card. Topics include: chlorofluorocarbon refrigerants (CFC) composition; refrigerant recovery, recycling and reclaiming; Environmental Protection Agency (EPA) Rules; EPA regulations/air conditioning and refrigeration; and preparation for testing for the EPA Certification Card. Prerequisite: Registered Apprentice with Rogue Valley HVAC/R JATC.

APR107D (4 credits)
Apprenticeship/HVAC: Electrical Basics
The course includes basic electrical theory including OHM's Law, circuit schematics symbols, circuit characteristics, as it applies to DC and AC circuits in the HVAC industry. Topics include: electrical safety; electrical theory; electrical schematics and component symbols; electrical testing equipment/ meters; electrical-magnetic fundamentals. Prerequisite: Registered Apprentice with Rogue Valley HVAC/R JATC.

APR107E (4 credits)
Apprenticeship/HVAC: Electrical Circuit I
The course includes components, symbols and circuitry of air conditioning wiring diagrams, alternating current power distribution, and voltage systems as it pertains to installation of heating, cooling and refrigeration systems. Components and operation of the basic electrical motor will be included. Prerequisite: Registered Apprentice with the Rogue Valley HVAC/R JATC.

APR107F (4 credits)
Apprenticeship/HVAC: Electrical Circuit II
This course covers common control components found in HVAC systems. Specific devices include contactors, relays and overloads, thermostats, pressure switches and other electric control devices, and heating control devices. Prerequisite:

Registered Apprentice with Rogue Valley HVAC/R JATC.

APR111A (4 credits)
Apprenticeship/Introduction to Plumbing Skills
Provides an introduction to plumbing materials and tools encountered in the plumbing trade, and their safe usage. On successful completion students will be able to identify common tools and materials and explain their use. Apprentices will know how to use MSDS as a tool read and create simple blueprints, and locate ORS and OARs that impact plumbing applications and licensed plumbers. Prerequisite: Registered Apprentice with Area V Plumbers JATC.

APR111B (4 credits)
Apprenticeship/Plumbing Principles I
Provides the plumbing apprentice with knowledge to combine appropriate tools with materials required for the job. Students will use math and science principles in completion of plumbing tasks. Intermediate blueprint reading skills will be included in the course. An overview of fixture types, operation of water heaters and other hot water systems along with characteristics of water in pressure piping will be included. Prerequisite: Registered Apprentice with Area V Plumbers JATC.

APR111C (4 credits)
Apprenticeship/Plumbing Principles II
Upon satisfactory completion the student will be able to safely and efficiently use hand and power tools in the plumbing trade, render isometric drawings from blueprints, define the characteristics of water, select proper water pipe size, and explain the principle of backflow prevention and hot water heaters. Prerequisite: Registered Apprentice with Area V Plumbers JATC.

APR111D (4 credits)
Apprenticeship/Mathematics of Plumbing and Commercial Drawing
Reviews methods for finding angles using the Pythagorean Theorem. Students will interpret and use civil, architectural, structural, mechanical plumbing and electrical drawings when installing plumbing systems. Techniques to create isometric drawings, material takeoffs and approved submittal data will be included. Methods are introduced for attaching and running DWV and water supply piping in relation to structural elements and code requirements. Prerequisite: Registered Apprentice with Area V Plumbers JATC.

APR111E (4 credits)
Apprenticeship/Water Piping and Fixture Installation
Includes techniques for installation and testing of water supply piping, installation of basic plumbing fixtures and an introduction to the principles of electricity common to plumbing-related electrical applications. Code requirements will be included for each section. Prerequisite: Registered Apprentice with Area V Plumbers JATC.

APR111F (4 credits)
Apprenticeship/Installation of DWV Systems and Water Heaters
Gives the apprentice the knowledge to install a complete drain, waste and vent (DWV) system, techniques for installing common drains according to code and review of types of valves and their applications. Identification, troubleshooting and repair of water heaters, fixtures and valves will also be included. The course is designed to provide the knowledge required to pass the Oregon Plumber Licensing Examination. Prerequisite: Registered Apprentice with Area V Plumbers JATC.

APR116A (4 credits)
Apprenticeship/Millwright: Basic Electricity
A one-term course intended to supplement on-the-job training with technical training required for trade comprehension, applications, and practices. The apprentices will have a basic understanding of electrical theory, safety procedures when working with electrical equipment and installation, features of an electrical schematic, electricity measurements and industrial applications of AC and DC motors. Prerequisite: Registered Apprentice with the Jackson County Millwrights JATC.

APR116B (2 credits)
Apprenticeship/Millwright: Carpentry
Provides an overview of carpentry skills needed by the journeyman millwright. Topics include shop safety, hand, stationary and pneumatic tool operation, and construction methods. Prerequisite: Registered Apprentice with the Jackson County Millwrights JATC.

APR116C (2 credits)
Apprenticeship/Millwright: Power Transmission
Provides an overview of carpentry skills needed by the journeyman millwright. Topics include shop safety, hand, stationary and pneumatic tool operation, and construction methods. Prerequisite: Registered Apprentice with the Jackson County Millwrights JATC.

APR116D (4 credits)
Apprenticeship/Millwright: Boilers
The course provides the apprentice with technical training required for trade-specific comprehension, application, and practice in the operation and maintenance of boilers. The course supplements the skills and experience in required on-the-job training. Prerequisite: Registered Apprentice with the Jackson County Millwrights JATC.

APR116E (2 credits)
Apprenticeship/Millwright: Welding I
This course is intended to supplement on-the-job welding experience by enhancing the apprentice's knowledge, understanding, and views of commonly used cutting and welding processes encountered as a journeyman Millwright. Special emphasis will be placed on safety, maintenance of equipment, and fabrication on the worksite. Prerequisite: Registered Apprentice with the Jackson County Millwrights JATC.

APR116F (2 credits)
Apprenticeship/Millwright: Welding II
Welding II is a comprehensive one term training for advanced apprentices who have completed Welding I and have on-the job welding experience. Course will enhance the apprentice's knowledge and ability to complete cutting and welding processes requiring more knowledge and skill. This class will meet the safety, maintenance and fabrication needs of a journeyman millwright. Prerequisites: Registered Apprentice with the Southern Oregon Millwright JATC; APR116E.

APR118A (3 credits)
Apprenticeship/Sheet Metal: Introduction to Sheet Metal
Apprentices will properly apply job site safety practices and show competence in the use of basic drafting equipment and fabricating equipment to lay out and fabricate basic sheet meal projects in the classroom on paper and in the shop in metal. Prerequisite: Registered Apprentice with the South-Central Oregon Sheet Metal JATC.

APR118B (3 credits)
Apprenticeship/Sheet Metal: Duct Lay Out
The course topics include measurement of materials, lay out and fabrication of basic duct work using the parallel line method and mathematical formulas. Prerequisite: Registered Apprentice with the South Central Oregon Sheet Metal JATC.

APR118C (3 credits)
Apprenticeship/Sheet Metal: Parallel Line Development
This is an advanced course in lay out and fabrication of sheet metal projects using the parallel line method. Fittings will first be drawn on paper that includes all dimensions and specifications. The layout will be used as a pattern in fabrication the fitting. Prerequisite: Registered Apprentice with the South-Central Oregon Sheet Metal JATC.

APR118D (3 credits)
Apprenticeship/Sheet Metal: Applied Field Practices
The apprentice will select appropriate screws, bolts, rivets and other fasteners or hangers for specific sheet metal installation or fabrication applications. Special attention will be given to common filed installation practices. Prerequisite: Registered Apprentice with the South Central Oregon Sheet Metal JATC.

APR118E (3 credits)
Apprenticeship/Sheet Metal: Architectural Sheet Metal
The apprentice will fabricate sheet metal gutter, flashings and roofing according to design specifications so that water will properly drain off of a structure without penetration. Instruction will include copper soldering techniques using copper soldering irons and bar solder. Prerequisite: Registered Apprentice with the South Central Oregon Sheet Metal JATC.

APR118F (3 credits)
Apprenticeship/Sheet Metal: Round Fittings
The apprentice will lay out and fabricate round fittings using the following development methods: Radial line; Parallel line; and Triangulation. Prerequisite: Registered Apprentice with the South Central Oregon Sheet Metal JATC.

APR120A (4 credits)
Apprenticeship/Boiler Operator: Introduction to Boiler Operation
The course provides an introduction to the safety considerations, theory, tools, machinery, mathematics, blueprint reading and their applications in energy generation. Prerequisite: Registered Apprentice with Southern Oregon Boiler Operators JATC.

APR120B (4 credits)
Apprenticeship/Boiler Operator: Mechanics of Steam Generated Power
The course provides the apprentice with an understanding of the thermodynamics of steam and the theory of combustion. Factors including air flow, gas removal, fuel characteristics, equipment design, and water chemistry will be included. Prerequisite: Registered Apprentice with Southern Oregon Boiler Operators JATC.

APR120C (4 credits)
Apprenticeship/Boiler Operator: Boiler Component Design and Operation
The course prepares the apprentice to conduct tests for water chemistry, proper installation of valves, steam traps, soot blowers, boiler startup and documentation of procedures and operation to assure efficient steam generation safely. Prerequisite: Registered Apprentice with Southern Oregon Boiler Operators JATC.

APR120D (4 credits)
Apprenticeship/Boiler Operator: Steam Turbine Operation
The course provides an overview of steam turbine design, applications and maintenance. The principles of basic electricity and motor control theory pertinent to power generation and transmission will be included. Prerequisite: Registered Apprentice with Southern Oregon Boiler Operators JATC.

APR120E (4 credits)
Apprenticeship/Boiler Operator: Instrumentation and Control Devices
The course introduces the apprentice to instrumentation and control devices used with various input/output mediums. Instruments required to take measurements in assessing the status of boiler operations will be introduced with detailed instruction of proper usage. Safety and efficient operation of the boiler will be a consideration in all discussions of control devices. Prerequisite: Registered Apprentice with Southern Oregon Boiler Operators JATC.

APR120F (4 credits)
Apprenticeship/Boiler Operator: Installation and Operation of the Heating Boiler
The course will provide detailed construction, installation and maintenance information for heating, hot water, water tube, tubular and cast iron sectional boilers. Topics will include refractors, insulation, fittings, controls, basic refrigeration and security in the plant. Prerequisite: Registered Apprentice with Southern Oregon Boiler Operators JATC.

APR127A (4 credits)
Apprenticeship/Electrical Theory I
Electrical Theory I is designed to familiarize the beginning electrical apprentice with both practical and theoretical aspects of electricity and electrical circuits. Prerequisite: Registered Apprentice.

APR127B (4 credits)
Apprenticeship/Electrical Theory II
Electrical Theory II is designed to familiarize the beginning electrical apprentice with more advanced aspects of electrical theory and math. Prerequisite: Registered Apprentice.

APR127C (4 credits)
Apprenticeship/Electrical Theory III
Electrical Theory III is designed to familiarize the beginning electrical apprentice with advanced aspects of electrical theory, math, and power distribution. Prerequisite: Registered Apprentice

APR127D (4 credits)
Apprenticeship/Advanced Electrical I
The course expands electrical theory to three phase circuits, function and operation of single and three phase transformers, DC motors and generators, one and three phase motors and alternators, and calculations required for operation of circuits and transformers. Prerequisite: Registered Apprentice.

APR127E (4 credits)
Apprenticeship/Advanced Electrical II
This course is designed for the Inside Wireman Electrical Apprentice. Instruction includes Residential code calculations, motors, generators, transformers, blueprint reading, branch circuits, ampacity, and conduit fill. Prerequisite: Registered Apprentice.

APR127F (4 credits)
Apprenticeship/Advanced Electrical III
This course is designed to increase understanding of formulas and tables used in calculating sizing of conductors, branch circuits, breakers and junction boxes. Applications will apply to single phase and three-phase loads. A variety of motor control circuit functions including two and three wire control, peripheral devices, interlocks, and Programmable Logic Controllers (PLC's) will be covered. Prerequisite: Registered Apprentice.

APR129A (6 credits)
Apprenticeship/Aviation Overview
Serves as an overview of the aviation industry, regulations and technology. Four segments of the aviation industry will be targeted including: Aviation as a Career; FARS and Technical Publications; Basic Physics and Basic Aerodynamics; Weight and Balance; Ground Handling; Human Factors and Risk Management; Blueprints; Drawings, Geometric Dimensioning and Tolerances. Prerequisite: Registered Apprentice with Southern Oregon Aviation JATC.

APR129B (6 credits)
Apprenticeship/Airframe and Power Plant Mechanics: Aircraft Systems I
Provides a detailed understanding of electronics with aviation applications. Six segments will be included: Aircraft Electrical Circuits test equipment and Fault Isolation; Repair/

Identification Damage and Broken Aircraft Electrical Wires; Cables and Connectors; Aircraft Hydraulic Systems; Landing Gear Systems; Aircraft Brake Systems and Aircraft Flotation Systems. Prerequisite: Registered Apprentice with Southern Oregon Aviation JATC.

APR129C (6 credits)
Apprenticeship/Aircraft Systems II
Provides a basic understanding of fixed wing and rotary wing systems and drive train. Seven segments will be included: Propellers and Propeller Systems, Helicopter Power Train Systems, Aircraft Fuel Systems, Aircraft Fire Detection and Fire Protection Systems, Environmental Control Systems,

Anti-ice/De-ice Systems and Structural Material Identification. Prerequisite: Registered Apprentice with Southern Oregon Aviation JATC.

APR129F (3 credits)
Apprenticeship/Basic Electrical Theory
The course will guide the student through the basics of electricity up through electrical systems in regards to aviation and aircraft. Special emphasis will be given to: Introduction to basic electricity, Chemical Energy, Aircraft Batteries, Magnetism, Types of electricity, Production of electricity, Electrical relationships, Ohms law, Direct Current electric-

ity, Alternating Current electricity, Circuits and components, Electrical Motors, Generators and Aircraft Circuits. This course is designed to prepare for the FAA licensing examination. Prerequisite: Registered Apprentice with Southern Oregon Aviation JATC or properly registered student taking additional aviation related training.

APR207A (4 credits) Apprenticeship/HVAC: Systems I

This course is designed to develop the ability to perform residential/commercial heat-loss calculations for heating systems and size system components. Additional system topics will include: recharging a refrigeration system; service estimates; absorption and compression refrigeration system; and physical principles of air movement and humidity. Prerequisite: Registered Apprentice with Rogue Valley HVAC/R JATC.

APR207B (2 credits) Apprenticeship/HVAC: Systems II

This course is designed to provide an understanding of special refrigeration systems and their applications, the fundamentals of air conditioning, basic heating and air conditioning systems and heating and humidification systems. Prerequisite: Registered Apprentice with Rogue Valley HVAC/R JATC.

APR207C (2 credits) Apprenticeship/HVAC: Systems III

The course is a continuation of the systems series and includes cooling and dehumidifying systems, central air conditioning and heat pumps, solar energy systems, advanced air conditioning-heating systems, and automotive air conditioning. Prerequisite: Registered Apprentice with Rogue Valley HVAC/R JATC.

APR207D (4 credits) Apprenticeship/HVAC: Airflow and Systems Controls I

This course provides a review of basic refrigeration and A/C controls in preparation for determining ventilation requirements, calculating duct size, utilization of instruments in checking airflow and draft control. Control systems, control circuit diagrams and architectural blueprints will be used to make calculations. Prerequisite: Registered Apprentice with Rogue Valley HVAC/R JATC.

APR207E (4 credits) Apprenticeship/HVAC: Airflow and Systems Controls II

This course is an introduction to the primary concepts that lead to building controls systems including thermostats, pneumatic controls and microprocessor based/ Direct Digital Control (DDC) systems. Servicing, troubleshooting and troubleshooting procedures will be included. Prerequisite: Registered with the Rogue Valley HVAC/R JATC.

APR207F (4 credits) Apprenticeship/HVAC: Operations and Systems Review

This course provides review of basic air conditioning, refrigeration, schematics, electrical components, building codes, service and troubleshooting fundamentals covered the during previous terms in preparation for the HVAC-JATC Journeyman's test. Prerequisite: Registered with the Rogue Valley HVAC/R JATC.

APR211A (4 credits) Apprenticeship/Water Supply Systems

Provides applied math concepts that include geometry, instruction on how to size water piping in all applications and treatment of potable water for private and public water systems. Prerequisite: Registered Apprentice with Area V Plumbers JATC.

APR211B (4 credits) Apprenticeship/Plumbing DWV and Compressed Air Systems

Covers sizing Drain, Waste, and Vent (DWV) piping as well as sizing storm drains, roof drains and roof storage and drainage systems. There will be coverage of sewage pumps and sump pumps which includes sizing, installations, troubleshooting and repair. The course will also cover compressed air line installation, sizing and troubleshooting. Prerequisite: Registered Apprentice with Area V Plumbers JATC.

APR211C (4 credits) Apprenticeship/Plumbing Backflow Prevention

Introduces the principles and hazards of backflow prevention, and reviews different types of vents that can be installed in a drain, waste and vent system. It also covers corrosive waste and reviews the safety issues and hazard communications. Prerequisite: Registered Apprentice with Area V Plumbers JATC.

APR211D (4 credits) Apprenticeship/Review of Oregon Plumbing Code

Provides a review of all Oregon state plumbing codes, OSHA rules and the use of mathematics in plumbing in preparation for taking the Oregon Plumber Licensing Examination (OPLE). Prerequisite: Registered Apprentice with Area V Plumbers JATC.

APR211E (4 credits) Apprenticeship/Test Preparation I

Serves as the first of two designed to review all preceding plumbing apprenticeship classes to prepare for successful passage of the Oregon Plumbing Licensing Exam (OPLE). Prerequisite: Registered Apprentice with Area V Plumbers JATC.

APR211F (4 credits) Apprenticeship/Test Preparation II

The second in a series designed to prepare the fourth year apprentice for taking the Oregon Plumber Licensing Examination (OPLE). Prerequisite: Registered Apprentice with Area V Plumbers JATC.

APR216A (2 credits) Apprenticeship/Millwright: Machine Shop I

Provides an overview of carpentry skills needed by the journeyman millwright. Topics include shop safety, hand, stationary and pneumatic tool operation, and construction methods. Prerequisite: Registered Apprentice with the Jackson County Millwrights JATC.

APR216B (2 credits) Apprenticeship/Millwright: Machine Shop II

Provides an overview of carpentry skills needed by the journeyman millwright. Topics include shop safety, hand, stationary and pneumatic tool operation, and construction methods. Prerequisites: Registered Apprentice with the Jackson County Millwrights JATC and APR216A.

APR216C (4 credits) Apprenticeship/Millwrights: Drafting

A one-term course that will supplement on-the-job training with technical training required for trade comprehension, applications, and practices. The course introduces the apprentices to basic mechanical drafting techniques. Topics include mathematical calculations used to determine circular, linear, area and volume measurements, drafting terminology, characteristics of various types of drawings, drafting symbols and blueprint interpretation. Prerequisite: Registered Apprentice with the Jackson County Millwrights JATC.

APR216D (2 credits) Apprenticeship/Millwrights: Hydraulics-Pneumatics I

This course will supplement on-the-job training with technical training required for trade comprehensive, application, and practices. A Vickers hydraulic training power unit is used to demonstrate different aspects of fluid power, which includes pumps, motors, cylinders, manually and electrically-operated directional valves, flow controls, pressure reducing devices, fittings, and various types of piping, hoses, etc. Prerequisite: Registered Apprentice with the Jackson County Millwrights JATC.

APR216E (2 credits) Apprenticeship/Millwrights: Hydraulics-Pneumatics II

The advanced Hydraulics-Pneumatics course is the second in a series designed to supplement on-the-job training with technical training required for trade comprehensive, application, and practices. A Vickers hydraulic training power unit is used to demonstrate advanced aspects of fluid power, which includes pumps, motors, cylinders, manually and electrically-operated directional valves, flow controls, pressure reducing devices, fittings, and various types of piping, hoses, etc. Prerequisite: Registered Apprentice with the Southern Oregon Millwright JATC; APR216D.

APR216F (3 credits) Apprenticeship/Millwright: Rigging

Prepares the apprentice to apply general and specific rigging applications on the work site that may include lifting and positioning equipment; using ropes, cables, hoists and cranes. Topics include: evolution of rigging systems; mathematics of rigging; basic system principles; rope tying techniques; real work situations; and mobile and stationary crane operation. Prerequisite: Registered Apprentice with the Jackson County Millwrights JATC.

APR218A (3 credits) Apprenticeship/Sheet Metal: Duct Design

The course will assist the apprentices to design duct systems to carry the air volume needed while maintaining static pressure and velocities while minimizing air turbulence. Topics included: Calculating cubic footage; Calculating area;

Calculating air flow; and Duct design. Prerequisite: Registered Apprentice with the South Central Oregon Sheet Metal JATC.

APR218B (3 credits) Apprenticeship/Sheet Metal: Field Math

The course will assist the apprentices in making geometric and trigonometric computations used in designing and fabricating sheet metal. Many of the practice calculations will be made in simulated field installations. Prerequisite: Registered Apprentice with the South Central Oregon Sheet Metal JATC.

APR218C (3 credits) Apprenticeship/Sheet Metal: Triangulation

The course assists the apprentice to lay out advanced sheet metal fittings using the triangulation method. Sample sheet metal fittings will be fabricated using metal forming equipment. Field installation scenarios will be used to practice computations. Prerequisite: Registered Apprentice with the South Central Oregon Sheet Metal JATC.

APR218D (3 credits) Apprenticeship/Sheet Metal: Industry Standard

The course assists the apprentice to read blue prints and interpret architectural specifications regarding specific tasks, installation, equipment, accessory and material. Letter designations and symbols will be explained and used to perform duct and flashing take-offs. Abbreviations, scheduling from blueprints and dimensional scale will be used to create a mechanical plan for a small residence. Prerequisite: Registered Apprentice with the South Central Oregon Sheet Metal JATC.

APR218E (3 credits) Apprenticeship/Sheet Metal: Specialty Items

The course assists the apprentice in performing layout and

fabrication of: fiberglass duct and fittings; equipment cabinets; duct accessories; and specialty duct fittings. Instruction and practice using oxy-acetylene and plasma cutting equipment and soldering iron techniques will be conducted in the lab. Prerequisite: Registered Apprentice with the South Central Oregon Sheet Metal JATC.

APR218F (3 credits)
Apprenticeship/Sheet Metal: Advanced Sheet Metal

The course provides the apprentice with the skills necessary to fabricate using MIG, TIG, ARC and Oxy-acetylene techniques. Practice in fabrication of projects using steel and aluminum requiring cutting and welding will be given. The final apprentice project will require design and fabrication of an individual project. Prerequisite: Registered Apprentice with the South Central Oregon Sheet Metal JATC.

APR227A (4 credits)
Apprenticeship/National Electrical Code I

The first in a three-part series designed to familiarize the Electrical Apprentice with the current National Electrical Code (NEC) edition. Emphasis will include motor calculations, wire sizing, transformers and trade safety. All topics will include technical applications and NEC implications. Prerequisite: Registered Apprentice.

APR227B (4 credits)
Apprenticeship/National Electrical Code II

The second in a three-part series designed to familiarize the Electrical Apprentice with the current National Electrical Code (NEC) edition. Emphasis within this course will include box and conduit fill, voltage drops, feeders, branch circuits and service calculations for commercial and residential installations. All topics will include technical applications and NEC implications. Prerequisite: Registered Apprentice.

APR227C (4 credits)
Apprenticeship/National Electrical Code III

The third in a three-part series designed to familiarize the Electrical Apprentice with the current National Electrical Code (NEC) edition. Emphasis within this course will include NEC lay-out, and grounding vs. bonding systems. All topics will include technical applications and NEC implications. Prerequisite: Registered Apprentice.

APR227D (4 credits)
Apprenticeship/Oregon Electrical License Preparation I

The first of three courses in a series designed to familiarize Apprentice Electricians with advanced test taking skills and increase their knowledge of the current electrical code. Emphasis will be on reviewing current code, calculations and formulas, practical electrical application and workplace safety. Prerequisite: Registered Apprentice.

APR227E (4 credits)
Apprenticeship/Oregon Electrical License Preparation II

The second of three courses designed to prepare the Apprentice Electrician to pass the Oregon Electrical licensing exam. Course serves as a review of current electrical code calculations using standard and optional methods, practical electrical applications and workplace safety practices. All testing will simulate the Oregon Electrical Licensing Examination. Prerequisite: Registered Apprentice.

APR227F (4 credits)
Apprenticeship/Oregon Electrical License Preparation III

The third of three courses in a series designed to familiarize the Apprentice Electrician with advanced test taking skills and increase their knowledge of the current electrical code, with a major focus on Oregon Revised Statutes, Oregon Administrative Rules and the Oregon Addendums. The course will interpret NEC code article content, review electrical components and application characteristics, and clarify terminology including industry jargon. Prerequisite: Registered Apprentice.

APR229A (6 credits)
Apprenticeship/Power Plant Systems and Flight Controls

Provides an understanding of power plant construction and systems including the basic reciprocating engine, its major sections, the axial and centrifugal flow compressors, and accessory section components. Instruction will concentrate on the characteristics and service requirements. Engine component replacement and tools/techniques for aircraft pressurization will be discussed. This course is in preparation for passing the FAA licensing examination and includes: basic engine major sections, engine component replacement, common hand tool usage, precision measuring equipment, safety locking devices, safety equipment and procedures, seal installation, hardware installation, corrosion inspection and preventive maintenance of reciprocating engines. The course also includes: basic engine major sections, axial and centrifugal flow compressors, accessory section component, distinguishing characteristics of the turboprop, turbo shaft, turbofan engine and auxiliary power plants of turbine engines. Engine replacement will be discussed including: common hand tool usage, precision measuring equipment, safety locking devices, safety equipment and procedures, seal installation, hardware installation, corrosion inspection and preventive maintenance. Other topics include: aircraft pressurization components and operation, aircraft pressurization equipment maintenance and safety, engine electrical / electronic controls and flight control systems. Prerequisite: Registered Apprentice with Southern Oregon Aviation JATC.

APR229B (6 credits)
Apprenticeship/Structural Inspection and Repair

Guides the student through the inspection and identification of a variety of aircraft structural damage while assessing the type of repair that is required to assure an airworthy repair. Special emphasis will be given to: Types and characteristics of materials in the metallic aircraft structure, repair procedures and required documentation as per the FAR's, general techniques of sheet metal repair, to include forming characteristics, rivet layout and installation, proper drilling techniques, use of sealants, specialized tools and precision instruments, cable identification, inspection and fabrication, composite material repairs, non-destructive testing, basics of welding theory, vibration analysis and balance theory. This course is designed to prepare for the FAA licensing examination. Prerequisite: Registered Apprentice with Southern Oregon Aviation JATC.

APR229C (4 credits)
Apprenticeship/Avionics

Introduces aviation electronics. Electronic systems designed for use on an aircraft will be the main topic with special attention to electrical operation in communications, navigation and the display and management of multiple systems. Prerequisite: Registered Apprentice with the Southern Oregon Aviation Joint Apprenticeship and Training Committee (JATC).

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 II (Color Theory)

Provides instruction in the basic theories and practice of using color through coursework addressing both concept and experience. This 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. Continues analysis of composition with focus on use of color and its affect to meet individually determined designs in a variety of contexts. This course satisfies foundation core requirements for art majors and graphic design.

ART120 (3 credits)
Introduction to Digital Art

Provides experiential instruction in basic modalities, techniques, and software programs in digital design, and their use in contemporary art making processes. Students work in both the computer lab and a traditional studio art setting to explore significant individual concepts, and exercise their ability to communicate those concepts visually. Programs such as those in the Adobe suite and other freely available software will be used as both a platform for creative ideation and a finished visual medium. Skills acquired in this class are applicable to both fine art and more commercially based design disciplines.

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: WR122, at least 3 credits in a studio art class, and at least one of the three classes in the History of Art sequence, ART 204, ART205, or ART206.

ART198 (1 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: WR122, at least 15 credits of studio art classes, and at least one of the classes in the History of Art sequence (ART204, ART205, or ART206).

ART199 (variable credits)
Special Studies in Art
Emphasizes study in a variety of art disciplines to fulfill specific educational goals. Prerequisite: RD90 or WR91.

ART204, 205, 206 (4 credits each)
History of Art I, II, III
This three-term sequence is designed for both art and non-art majors. The intent of this study is to gain skills in appreciating, understanding, and evaluating the beauty and meaning in art and life in the context of culture, and evolving needs and belief systems. For art majors, a necessary foundation is laid for advanced study in studio art and art history. Students study the history of art in the context of the cultures producing them, by studying selected works of painting, sculpture, architecture, and other fine arts, from prehistoric to Gothic periods (ART204), Renaissance to Baroque periods (ART205), and the 18th century to contemporary times (ART206). 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. Prerequisites: BT113 or WR115 or designated placement scores.

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 almost exclusively from live models, both nude and draped, using a range of materials and formats. Through direct observation, anatomical study, historical information and media experimentation, students develop their drawing skills and increase their ability to utilize the figurative form in creative works of contemporary art.

ART235 (3 credits)
Figure Drawing II
Introduces techniques and process in drawing the figure from life. This course provides a framework for the development of self-expression for beginning students, and presents advanced students with problem-solving experiences appropriate to issues in contemporary art. Students draw almost exclusively from live models, both nude and draped, using a range of materials and formats. Through direct observation, anatomical study, historical information and media experimentation, students develop their drawing skills and increase their ability to utilize the figurative form in creative works of contemporary art.

ART236 (3 credits)
Figure Drawing III
Introduces techniques and process in drawing the figure from life. This course provides a framework for the development of self-expression for beginning students, and presents advanced students with problem-solving experiences appropriate to issues in contemporary art. Students draw almost exclusively from live models, both nude and draped, using a range of materials and formats. Through direct observation, anatomical study, historical information and media experimentation, students develop their drawing skills and increase their ability to utilize the figurative form in creative works of contemporary art.

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. 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. Reinforces expectations for students to achieve their goals, and to understand the continuing change of contemporary ceramic art techniques. Introduces materials, tools, and techniques in producing ceramic pottery and sculptural forms, and includes hand building, wheel throwing, glaze formulation and application, firing, and other finishes for clay. Prerequisite: ART253.

ART255 (3 credits)
Ceramics III
Continues ART254 and further explores the history, science, design, and art of pottery. Reinforces the expectations of students to achieve their goals and to understand the continuing change of contemporary ceramic art. Introduces students to advanced materials, tools, and techniques in producing ceramic pottery and sculptural forms. Includes hand-building, wheel throwing, glaze formulation and application, firing, and other finishes for clay. Prerequisite: ART254.

ART257 (3 credits)
Beginning Jewelry and Metalsmithing
Explores basic metalsmithing processes, including piercing, riveting, lost wax casting and silver soldering and provides a foundation for the development of creative thinking and self-expression. Course is designed for students with limited or no previous jewelry/metalsmithing experience. Introduces tools and techniques used in working with nonferrous metals through a combination of demonstrations, studio work and group discussions. Furthers design awareness and explores three-dimensional form as functional or wearable art.

ART258 (3 credits)
Intermediate Jewelry and Metalsmithing
Continues developing technical vocabulary through content that varies by term including the exploration of a variety of surface embellishments, metal forming methods, mold making, stone setting and 3D printing. Explores historical and contemporary artists and continues development of design and aesthetic awareness of three-dimensional small scale works of art with the goal of creating a personal visual language. Prerequisite: ART257.

ART259 (3 credits)
Advanced Jewelry and Metalsmithing
Along with further technical development and awareness of the versatility of metalwork, students explore concepts and issues of self-expression and personal imagery related to wearable art, small functional objects and small sculpture. Content varies by term and includes etching, enameling, die forming, chasing and repousse, mold making, 3D printing and stone setting. Prerequisite: ART258.

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 credits)
CWE/Art

Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their programs. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Prerequisite: CWE courses require prior arrangements with faculty or the Department Chair.

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.

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.

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 credits)
Special Studies: Art

Emphasizes advanced study in a variety of art disciplines (drawing, watercolor, ceramics, sculpture, painting, etc.) to fulfill specific educational goals and further development in both technique and creative processes.

ASL - AMERICAN SIGN LANGUAGE

Lower Division Collegiate

ASL101, 102, 103 (4 credits each)
First Year American Sign Language I

Emphasizes the development of expressive skills, receptive skills and cultural awareness. Primary focus is on the student's active use of ASL. Course includes visual readiness skills, ASL vocabulary, deaf culture, and ASL grammar. The 100 level sequence focuses on everyday communication in a conversational environment where grammar is introduced in context with an emphasis on developing question and answering skills. Prerequisites: RD90 and WR90, or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement score.

BA – 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, or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement score, and access to the Internet are required.

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 CIS120 or documented proficiency; and BT113 or WR115 or designated placement score.

BA131 (4 credits)
Introduction to Business Computing

Covers basic computer applications for business. Students will gain hands-on experience with Microsoft Office 365/2019 applications using file management, word processing, spreadsheet, media presentation, and desktop information management software to create a variety of business documents, spreadsheets, and PowerPoint slide shows. Students must have access to the following Microsoft applications: Word 2019, Excel 2019, and PowerPoint 2019. Prerequisite: CIS60 and CIS60L: as needed. Co-requisites: BT113 or WR115 and MTH20.

BA177 (3 credits)
Payroll and Tax Procedures

Emphasizes understanding of the federal and state payroll laws and regulations, calculating earnings and deductions, preparing payroll records, understanding and preparation of federal and state payroll tax deposits and tax returns, and accounting for payroll. Prerequisites: BA131 and BT151 or BA211. Recommended prerequisites: BA285 or CIS125SS.

BA199 (variable credits)
Special Studies: Business

Offers selected topics of study in business through workshop, seminar, and independent study formats. Prerequisites: May vary depending on subject offerings.

BA206 (3 credits)
Management Fundamentals

Emphasis is on the four functions of management (planning, organizing, directing and controlling) from a socially responsible and ethical view. Students will be able to distinguish among different types of plans, develop mission statements, set goals and objectives, design an organizational structure and recognize staffing and training issues. Exposure to motivation and leadership theories, managing human resources, working in teams, and evaluation of the planning process are included. Prerequisite: BA101. Recommended prerequisites: BT101, BT102.

BA211 (3 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 or CIS120 or documented proficiency and BT160 or higher level math.

BA212 (4 credits)
Financial Accounting II

Continues the study of financial accounting theory with more in-depth study of asset, liability, and equity accounting in accordance with generally accepted accounting principles (GAAP). Includes accounting for receivables; plant assets, natural resources, and intangibles; current and long-term

liabilities; investments; payroll; stockholders' equity; the preparation of the statement of cash flows; and financial statement analysis. Prerequisite: BA211.

BA213 (4 credits)
Managerial Accounting
Covers the foundations of management accounting, including various types of business enterprise cost accounting systems, analyzing cost/volume/profit relationships, management planning and budgeting, accounting ethics, evaluating performance, and capital investment decisions. Uses word processing, spreadsheet, and general ledger software when applicable. Prerequisite: BA212.

BA214 (4 credits)
Business Communications
Focuses on planning, creating, writing, and revising typical business documents such as letters, memos, reports, and presentations using current communication technologies (word processing, spreadsheets, graphical presentations, email, and the Internet). Understanding the purpose of communication in business is also covered. Use of word processing software for in-class/online assignments and examinations is required. Prerequisites: BT114 or WR121 or designated placement score, BA131 or CIS120 or documented proficiency, Internet access, and a working e-mail account. Co-requisite: LIB127. Recommended prerequisite: CIS125WW.

BA218 (3 credits)
Personal Finance
Designed to acquaint the student with finance principles, terminology, and practical concepts of sound financial planning. Students will be introduced to such topics as managing cash and savings; consumer purchasing strategies; renting versus home-ownership; shopping for health, life, home, disability, long-term, and automobile insurance; preparing a personal financial plan; wise use of credit; financial institutions; identity theft; bankruptcy; fundamentals of investing in stocks and bonds; retirement planning; and estate planning. Prerequisites: BT160 or MTH60 or higher level math; RD90 and WR90 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

BA223 (3 credits)
Principles of Marketing
Designed to acquaint the student with basic marketing principles, terminology, and applied marketing concepts. Introduces students to the marketing concept, promotional and pricing strategies, consumerism, product and distribution strategies, governmental influence on marketing, marketing research, market segmentation, and consumer/industrial/ government buying behavior. Prerequisites: BT113 or WR115 and RD90 or WR91, or designated placement scores. Recommended prerequisite: BA101.

BA224 (3 credits)
Human Resource Management
Builds on the information contained in human relations and introductory management classes. Students will be introduced to traditional, current and emerging human resource management (HRM) practices. Students will develop a practical and realistic approach to HRM by focusing on the functions of a human resources department and the responsibilities of a human resources director. Upon completion of the course, students will be able to assess HRM skills; describe current best practices in HRM; explain the process of selecting, placing, and training employees; explain how diversity is managed in the workplace; prepare employee performance appraisal tools; tie compensation to performance; describe minimum health, safety and security measures required to protect employees; and explain how to effectively deal with labor unions. Prerequisites: BT101 or PSY101 and BT113 or WR115 or designated placement score. Recommended prerequisites: BT102 and BA206.

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 or designated placement score.

BA228 (2 credits)
Computer Accounting Applications
Covers the application of integrated software (QuickBooks) as an accounting tool in service and merchandising companies. Includes general ledger, accounts receivable, accounts payable, inventory, and payroll. Emphasis is on incorporating knowledge of manual accounting into a computerized system. Prerequisites: BA131 and BA211 or BT151.

BA238 (3 credits)
The Art of Selling
What does it take to be a highly successful professional salesperson? This course guides students to explore and understand successful sales, and sales management behaviors. Students will develop competency in professional selling approaches, conversations and presentations, and sales management techniques. Course topics include creating value in the buyer-seller relationships, prospecting, sales call planning, communicating the message, negotiating for win-win solutions, closing the sale, as well as how to motivate, compensate and train sales people. Prerequisites: BA131 and BT114 or WR115 or designated placement score.

BA243 (3 credits)
Social Media Marketing
Covers the basics of social media marketing: creating online conversations through social media outlets, social media strategy, branding through social media sites, value in the organization's content, aligning offline marketing strategies with social media, and why a social media consultant may be a viable solution to social media goals. Prerequisites: BT114 or WR121 or designated placement score. Recommended prerequisite: BA223.

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 or designated placement score. Recommended prerequisite: BA223.

BA280 (variable credits)
CWE/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. CWE courses require prior arrangements with faculty or the Department Chair.

BA282 (4 credits)
Applied Business Statistics
Builds on the knowledge of descriptive statistics learned in MTH243 to develop abilities in inferential statistics. Emphasis is on the understanding and application of interval estimating, hypothesis testing, correlation and regression, inferences using Chi-square, and one-way and two-way analysis of variance (ANOVA). Designed to provide students with the analytical skills they will need in upper division business courses including accounting, finance, operations management and applied research. Dual numbered as MTH244. Prerequisites: BA131 or CIS120 or documented proficiency, and MTH243. Recommended prerequisites: BA285 or CIS125SS.

BA285 (4 credits)
Advanced Business Applications: Excel
Designed for students in any discipline. Includes hands-on approach to develop a competency in basic and advanced concepts and commands of spreadsheet software. Students will learn to design, set up, and print a variety of spreadsheet applications. Microsoft Excel will be used to develop materials. Emphasis will be placed on using spreadsheet data for problems analysis. Dual numbered as CIS125SS. Prerequisites: MTH65 or BT160 (higher math recommended), and CIS120 or documented proficiency or BA131.

BI - 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. RD90 and WR90, or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement score.

BI100SB (4 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 score.

BI101 (4 credits)
Introduction to Biology I
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: RD90 or WR91 and MTH60 or designated placement scores.

BI101L
Introduction to Biology I Lab
Lab associated with BI101.

BI102 (4 credits)
Introduction to Biology II
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. Prerequisites: MTH60 and WR90 or WR91. Recommended prerequisites: BI101, BI101L, or BI211, BI211L.

BI102L
Introduction to Biology II Lab
Lab associated with BI102.

BI103 (4 credits)
Introduction to Biology III
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. Prerequisites: BI102, BI102L or BI212, BI212L.

BI103L
Introduction to Biology III Lab
Lab associated with BI103.

BI121 (4 credits)
Elementary Anatomy and Physiology I
This course 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: MTH20 and WR90 or WR91 or designated placement scores. Recommended prerequisites: AH100, CHEM104 and MTH60 or MTH63 or designated placement score.

BI121L
Elementary Anatomy and Physiology I Lab
Lab associated with BI121.

BI122 (4 credits)
Elementary Anatomy and Physiology II
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, BI121L or BI231, BI231L. Recommended prerequisites: AH100, CHEM104.

BI122L
Elementary Anatomy and Physiology II Lab
Lab associated with BI122.

BI199 (variable credits)
Special Studies: Biology
Selected topics of study in biology are offered on demand through workshops, seminars, lecture, lab, and/or independent study format. Prerequisites: May vary depending on subject offerings.

BI211 (4 credits)
General Biology I
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 scores. Recommended prerequisite: CHEM104.

BI211L
General Biology I Lab
Lab associated with BI211.

BI212 (4 credits)
General Biology II
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. Prerequisites: BI211, BI211L.

Recommended prerequisite: CHEM104.

BI212L
General Biology II Lab
Lab associated with BI212.

BI213 (4 credits)
General Biology III
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, BI211L. Recommended prerequisite: CHEM104.

BI213L
General Biology III Lab
Lab associated with BI213.

BI231 (4 credits)
Anatomy and Physiology I
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: WR115 or designated placement score and BI211, BI211L. Recommended prerequisite: CHEM104.

BI231L
Anatomy and Physiology I Lab
Lab associated with BI231.

BI232 (4 credits)
Anatomy and Physiology II
The second term of a three-term sequence. This course benefits students entering health professions, physical education and pre-professional medical or veterinary degrees. Emphasis is placed on the structure, function and regulatory mechanisms of the nervous, endocrine, special sense and circulatory systems. Includes a laboratory component that requires dissection. Prerequisite: BI231, BI231L. Recommended prerequisite: CHEM104.

BI232L
Anatomy and Physiology II Lab
Lab associated with BI232.

BI233 (4 credits)
Anatomy and Physiology III
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, BI231L or BI232, BI232L. Recommended prerequisite: CHEM104.

BI233L
Anatomy and Physiology III Lab
Lab associated with BI233.

BI234 (4 credits)
Microbiology
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, BI211L. Recommended prerequisite: CHEM104.

BI234L
Microbiology Lab
Lab associated with BI234.

BI280 (variable credits)
CWE/Biology
Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their programs. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Prerequisite: CWE courses require prior arrangements with faculty or the Department Chair.

BT - 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 WR91) or designated placement scores.

BT102 (3 credits)
Introduction to Supervision
Builds on information covered in BT101. Focuses on skills and techniques for current and potential supervisors with emphasis on day-to-day strategies that first-line managers use when directing and evaluating employees. Prerequisites: BT101, and BT113 or WR115 or designated placement score.

BT105 (3 credits)
Business Ethics
Business ethics are important skills in the business environment. Developing the ability to recognize and analyze ethical situations is becoming more critical for successful business organizations. This course explores the multi-level effects of business decisions, emphasizing contemporary topics in business ethics. Panel discussions, article reviews, roleplaying, guest speakers, and case studies are used to develop skills in recognizing and resolving ethical issues in business. Prerequisite: BT113 or WR115 or designated placement score.

BT106 (3 credits)
Advertising
Provides insight into the role of advertising and integrated brand promotion. Each specific advertising medium will be covered in detail. Both traditional and emerging advertising

media will be covered. Prerequisites: BT113 or WR115 or designated placement score. Recommended prerequisite: BA223.

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 over utilized and underutilized, and stress and anger management strategies used in conflict management. Prerequisites: BT113 or WR115 or designated placement 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, or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

BT114 (4 credits)
Business English II
Increases student proficiency in writing clear, well-developed, well-organized, articulate business messages, with emphasis on advanced grammar application, proofreading, and business research. Teaches advanced grammar concepts, reinforcing knowledge of sentence structure, basic paragraph and essay development and organization, basic punctuation, verbal phrases, redundancies, consistency in verb tense, pronoun agreement, subject/predicate agreement, parallel structure, and advanced uses of punctuation. In addition to strengthening grammar skills, students will apply those skills to a second objective: developing 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. Co-requisites: LIB127 and BA131. Recommended prerequisite: CIS125WW.

BT121 (4 credits)
Digital Marketing and e-Commerce
Introduces the use of the Internet to improve business profit. 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. Prerequisites: BT113 or WR115 or designated placement score, and CIS120 or documented proficiency or BA131.

BT160 (4 credits)
Business Math I
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 scores.

BT178 (3 credits)
Customer Service
Introduces students to the concepts of exceptional customer service. In today's highly competitive global marketplace, attracting and retaining customers is imperative for maximizing profits and the success of all businesses. Therefore, it is important for employees in all professions to develop the skills necessary to provide exceptional customer service. It is mandatory that customer service be considered from the top down within an organization. This course will include such topics as: customer loyalty; principles of quality customer service; service recovery; attitudes and habits that affect service; difficult customers; active listening to determine customer needs; effective communication; communication with a diverse customer population; hiring, motivating, and training service people; performance-enhancing feedback; and measurement of service performance. Prerequisites: BA131 or CIS120 or documented proficiency, and BT101 or PSY101, and BT113 or WR115 or designated placement score.

BT250 (3 credits)
Entrepreneurship
Acquaints students with the principles, terminology, and practical concepts related to the field of small business and entrepreneurship. Students will be able to describe the entrepreneur's mind set, define the characteristics of successful entrepreneurs and debunk common myths about them, and identify sources of successful business ideas. Students will also be able to differentiate among various small business entry strategies, assess marketing techniques used by entrepreneurs, compare/ contrast sources of financing, and analyze the advantages and disadvantages of franchising as a means of starting a business. The culminating project in this class is an interview with a local entrepreneur and a formal, written summary of that interview. Prerequisites: BT114 or WR121 or designated placement 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.

CG - CAREER AND GUIDANCE

Lower Division Collegiate (except where noted)

CG90 (0 credits)
Student Assistant 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, RCC 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, Academic Major focus; balancing work, school and home demands; financial planning; forming study partnerships; and stress and time management.

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. Prerequisite: RD90 or WR91. Co-requisite: BT113 or WR115 or designated placement score.

CG111 (1 credit)
Study Skills for Math Success
Provides students information, techniques, strategies and skills helpful in becoming more efficient in time management, studying, listening, note-taking, exams, and stress reduction. Addresses basic principles of the psychology of learning, and assists in creating positive tools toward successful math completion. Co-requisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) 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 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement 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 scores.

CG144 (1 credit)
Introduction to Assertiveness
Examines assertiveness and its relationship to personality development. Focuses on responsible assertive behavior in everyday life; emphasizing communication which respects self and others. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement 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 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

CG150 (3 credits)
Exploring Careers in Science and Technology
Explores the fields of automotive and diesel, building construction and computer literacy. Investigates diverse subjects including high technology and the trades; and explores the dynamic changing roles of men and women in the workplace. Prerequisites: WR115, or designated placement score, and CIS120 or documented proficiency.

CG150L
Exploring Careers in Science and Technology Lab
Lab associated with CG150.

CG155 (3 credits)
Exploring Careers in Health Care
Introduces students to a comprehensive range of professions in health care. Students will explore career choices including educational requirements, job outlooks, occupational requirements, wage ranges, and professional requirements. Students will also explore some of the current issues and potential ethical dilemmas that health care professionals face. In addition, students will complete self-assessments in the Oregon Career Information System (CIS) to help determine which health careers are a good match for their interests and skills. Prerequisite: RD90 or WR91. Co-requisite: BT113 or WR115 or designated placement score. Recommended prerequisite: CIS120.

CG199 (variable credits)
Special Studies: Career Guidance
Presents special topics around career and education completion through course, workshop, and/or seminar formats. Content varies according to department and student need. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement 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. Prerequisite: WR115 or BT113 or designated placement test score. Recommended prerequisite: CIS120.

CHEM - CHEMISTRY

Lower Division Collegiate

CHEM104 (5 credits)
Introductory Chemistry
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 5-credit class. Prerequisite: MTH65 or MTH63 or designated placement score.

CHEM104L
Introductory Chemistry Lab
Lab associated with CHEM104.

CHEM104R
Introductory Chemistry Recitation
Recitation associated with CHEM104.

CHEM105 (4 credits)
Introductory Organic Chemistry
Designed for allied health or non-science majors and those who do not intend to be chemists or biologists. Introduces the essence of nuclear chemistry and organic chemistry, including hydrocarbons, alcohols, ethers, aldehydes, ketones, carboxylic acids, esters, amines and amides. Prepares students for work in a laboratory that uses chemicals. Also helps students understand how cells and organisms function. Students must enroll in lecture and laboratory sections. Prerequisite: CHEM104, CHEM104L, CHEM104R or CHEM221, CHEM221L, CHEM221R. Co-requisite: CHEM105L.

CHEM105L
Introductory Organic Chemistry Lab
Lab associated with CHEM105.

CHEM105R (1 credit)
Introductory Organic Chemistry Recitation
Designed for students currently enrolled in CHEM105, this optional course provides more help with the material presented in CHEM105, including naming compounds, drawing structures, describing physical properties and predicting reaction products. Graded on a pass/no pass basis.

CHEM106 (4 credits)
Introductory Biochemistry
Designed for allied health or non-science majors and those who do not intend to be chemists or biologists. Introduces the essence of biochemistry, including chirality, carbohydrates, lipids, proteins, enzymes, nucleic acids and metabolism. Prepares students for work in a laboratory that uses chemicals. Also helps students understand how cells and organisms function. Students must enroll in lecture and laboratory sections. Prerequisite: CHEM105, CHEM105L or CHEM221, CHEM221L, CHEM221R.

CHEM106L
Introductory Biochemistry Lab
Lab associated with CHEM106.

CHEM106R (1 credit)
Introductory Biochemistry Recitation
Designed for students currently enrolled in CHEM106, this optional course provides more help with the material presented in CHEM106, including working with chiral and achiral molecules, drawing structures and describing properties of carbohydrates, lipids, amino acids, proteins, enzymes and nucleic acids, predicting products of biochemical reactions, and interpreting the chemical equations of carbohydrate, lipid and protein metabolism. Graded on a pass/no pass basis.

CHEM221 (5 credits)
General Chemistry I
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 5-credit class. Recommended prerequisite: CIS120. Co-requisite MTH95.

CHEM221L
General Chemistry I Lab
Lab associated with CHEM221.

CHEM221R
General Chemistry I Recitation
Recitation associated with CHEM221.

CHEM222 (5 credits)
General Chemistry II
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 5-credit class. Prerequisite: CHEM221, CHEM221L, CHEM221R. Co-requisite MTH111.

CHEM222L
General Chemistry II Lab
Lab associated with CHEM222.

CHEM222R
General Chemistry II Recitation
Recitation associated with CHEM222.

CHEM223 (5 credits)
General Chemistry III
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 5-credit class. Prerequisite: CHEM222, CHEM222l, CHEM222R. Co-requisite MTH112.

CHEM223L
General Chemistry III Lab
Lab associated with CHEM223.

CHEM223R
General Chemistry III Recitation
Recitation associated with CHEM223.

CHEM280 (variable credits)
CWE/Chemistry
Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their programs. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Prerequisite: CWE courses require prior arrangements with faculty or the Department

CIS - COMPUTER AND INFORMATION SCIENCES

Career and Technical Courses

CIS60 (2 credits)
PC Basics I
Designed for students with little or no previous experience with computers. Introduces basic computer fundamentals through lecture, demonstrations and hands-on experience with a personal computer. This course will cover basic hardware terminology, popular Internet technologies, email, online course skills, basic file management operations, word processing, and spreadsheets and may include other applications. Additionally, introduces students to basic computer concepts and terms and the practical applications of microcomputers in life. Course is graded on a pass/no pass basis. Course does not transfer. Co-requisite: CIS60L.

CIS60L
PC Basics I Lab
Lab associated with CIS60.

CIS120 (2 credits)
Concepts in Computing I
Students will learn Windows Interface, file management skills and how to use word processing, spreadsheet, and presentation software. Additionally, professional e-mail correspondence, Internet, best practices to safety on the Internet, Blackboard usage and basic Windows operating systems fundamentals will be covered. Prerequisites: MTH20 and RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement test scores. Prerequisites may include CIS60, CIS60L as needed.

CIS125DB (3 credits)
Data Base Management Systems
Designed for students in any discipline, this course includes a hands-on approach to develop competency in basic and advanced concepts and commands of database management. Students will learn to design, set up, and print a variety of forms and reports. Software to be used to develop materials is Microsoft Access. Prerequisites: MTH60 or MTH63 or BT160, and CIS120 or documented proficiency or BA131.

CIS125PPT (2 credits)
Effective Presentations
Includes a hands-on approach to develop competency in basic and advanced concepts and commands of effective presentations. Students will also learn techniques for developing and creating presentations that engage the audience, illustrate ideas, and use media effectively. Software used to develop presentations in the course is Microsoft PowerPoint. The course does not fulfill degree or certificate requirements for computer proficiency. Prerequisites: CIS120 or documented proficiency and BT113 or WR115 or documented placement score.

CIS125SS (4 credits)
Spreadsheet Applications
Course is designed for students in any discipline. Includes hands-on approach to developing competency in basic and advanced concepts and commands of spreadsheet software. Students will learn to design, set up, and print a variety of spreadsheet applications. Microsoft Excel will be used to develop materials. Emphasis is placed on using spreadsheet data for problems analysis. Dual numbered as BA285. Prerequisites: MTH65 or BT160 (higher math recommended), and BA131 or CIS120 or documented proficiency.

CIS125V (1 credit)
Visio
Introduces diagramming software using Microsoft Visio Professional. Applications and projects are designed for both business and technical professional skill development. Students learn to develop any of the following: flow charts, organizational charts, office layouts, website diagrams, network diagrams, and building and electrical plans. Course projects will be flexible, and students will select from topics appropriate to their areas of study. Course does not fulfill degree or certificate requirements for computer proficiency. Prerequisite: CIS120 or equivalent computing experience, or documented proficiency.

CIS125WW (3 credits)
Word Processing Applications
Provides training in Microsoft Word 2019 software. Covers the use of creating, editing, and formatting functions for various business documents. Other topics include formatting pages, headers, footers, columns, advanced character formatting, tables, charts, merged correspondence, managing shared documents, graphics, references, and specialized tables. Prerequisite: BA131 or CIS120 or documented proficiency.

CIS140 (4 credits)
Introduction to Operating Systems
Develops competency in basic and advanced concepts and commands of the three industry-standard operating systems. Emphasis is placed on installation and conductivity of the operating systems. Topics include the comparison of various operating systems (Windows, Linux and Apple), input/output control, introduction to the command line, software and operating systems installation, customization, and windowing environments. Designed for students in any discipline. Prerequisite: CIS120 or documented computer proficiency.

CIS179 (4 credits)
Introduction to Networks
Serves as a general introduction for students who need a foundation in current networking technology and a general overview of computer networks and concepts. Network topics include design essentials, media, interface cards, communications and protocols, architectures, operations, local area networks (LANs) and wide area networks (WANs), troubleshooting, and resources. Prerequisite: CIS120 or documented computer proficiency.

CIS195 (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: CIS120 or documented proficiency and MTH60 or higher level math. Co-requisite: WR121.

CIS196 (4 credits)
Web Authoring II
Follows CIS195 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). Course will include instruction on building a website using techniques of graceful degradation and progressive enhancement. Includes instruction on guidelines for content, style, structure, and accessibility. New structural elements are covered including the Canvas element, validation, HTML forms, audio, video, CSS3, geolocation, rich Internet applications, local storage, and multiscreen media queries. Prerequisite: CIS195.

CIS199 (variable credits)
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: May vary depending on subject offerings.

CIS225 (4 credits)
Computer End-User Support I
Prepares students for training and supporting end-users in a variety of organization settings. Topics to be discussed include the end-user support function in an organization, techniques for developing and delivering training modules, and techniques for providing ongoing technical support to end users. Emphasis is on solving problems with users (debugging, troubleshooting, and interaction with users) with actual and/or simulated functions of a computer support department. Prerequisites: CIS140 and CIS179 and WR115 or designated placement score. Recommended prerequisite: WR121.

CIS227 (3 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: CIS140 and MTH60 or MTH63 or higher level math.

CIS240 (4 credits)
Advanced Operating Systems
This course gives students an in-depth coverage of the skills needed to configure and manage identity with Windows Server 2016. Students will have an in-depth knowledge of Windows Server 2016 identity-related services, including Active Directory, user and group accounts, Group Policy, Active Directory Certificate Services, and advanced identity solutions such as Active Directory Federation Services and Active Directory Rights Management Services. Prerequisite: CIS140.

CIS240LX (4 credits)
Advanced Operating Systems - Linux
This course is intended for students who want to learn about the Linux operating system and prepare to pass the Linux+ certification exam from CompTIA. It does not assume any prior knowledge of Linux and is geared toward those interested in systems administration as well as those who will use or develop programs for Linux systems. The course provides comprehensive coverage of topics related to Linux administration, including Linux distributions, installation, application management, X-Windows, cloud technologies, networking, and security. Formerly offered as CIS240L. Prerequisite: CIS140.

CIS279 (4 credits)
Network Operating Systems
Covers concepts related to network operating systems – specifically Windows Server. Topics include server hardware, user and group management, network file management, group policy, network printing, server maintenance, Domain Naming Services (DMS), Dynamic Host Configuration Protocol (DHCP), and system backup and restore. Prerequisites: CIS140 and CIS179.

CIS280 (variable credits)
CWE/Computer Information Sciences
Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their programs. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Prerequisite: CWE courses require prior arrangements with faculty or the Department Chair.

CIS284 (4 credits)
Network Security Fundamentals
Introduces the beginning concepts of computer and network security and threats. Introduction to security principles, common network and system attacks and defense technologies and techniques will be covered. Topics will also include basic cryptography, mobile device security, wireless network security, security policies, authentication, Internet communication security, and other security related topics. Prerequisites: CIS179, or documented Network+ certification.

CIS299 (variable credit)
Special Studies in 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: May vary depending on subject offerings.

CJ - CRIMINAL JUSTICE

Lower Division Collegiate

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. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ100 is a college-level transfer course that is a core requirement for degrees offered through the Criminal Justice Department. Prerequisites: WR115 or designated placement score. Recommended prerequisite: LIB127.

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 the police, and career development. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ110 is a college-level transfer course that is a core requirement for degrees offered through the Criminal Justice Department. Prerequisites: WR115 or designated placement score. Recommended prerequisite: LIB127.

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. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ120 is a college-level transfer course that is a core requirement for degrees offered through the Criminal Justice Department. Prerequisites: WR115 or designated placement score. Recommended prerequisite: LIB127.

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 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. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ130 is a college-level transfer course that is a core requirement for degrees offered through the Criminal Justice Department. Prerequisites: WR115 or designated placement score. Recommended prerequisite: LIB127.

CJ191 (4 credits)
ROLEA Module 1: Orientation to Policing and Professionalism
ROLEA Module 1 - Orientation to Policing and

Professionalism is the first training module of the Reserve Officer Law Enforcement Academy (ROLEA). The module 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. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ191 ROLEA is a college-level transfer course available to students majoring in criminal justice and seeking to fulfill elective requirements in the Associate of Applied Science Degree in Criminal Justice. The course is also available to students sponsored by regional law enforcement agencies that have accepted a student into their reserve officer programs. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

CJ192 (4 credits)
ROLEA Module 2: Legal and Investigative Concepts I

ROLEA Module 2 - Legal and Investigative Concepts I is the second training module of the Reserve Officer Law Enforcement Academy. Course content is based on the Oregon Department of Public Safety Standards and Training police academy lesson plans. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ192 is a college-level transfer course that serves as an elective available to students majoring in criminal justice seeking to fulfill requirements in Associate of Applied Science Degree in Criminal Justice using the ROLEA option. The course is also available to students sponsored by regional law enforcement agencies that have reserve officer programs. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

CJ193 (4 credits)
ROLEA Module 3 - Legal and Investigative Concepts II

ROLEA Module 3 - Legal and Investigative Concepts II is the third training module of the Reserve Officer Law Enforcement Academy. Course content is based on the Oregon Department of Public Safety Standards and Training police academy lesson plans. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ193 ROLEA Module 3 is a college-level transfer course that serves as an elective available to students majoring in criminal justice seeking to fulfill requirements in Associate of Applied Science Degree in Criminal Justice using the ROLEA option. The course is also available to students sponsored by regional law enforcement agencies that have reserve officer programs. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

CJ194 (4 credits)
ROLEA Module 4: Legal and Investigative Concepts III

ROLEA Module 4 - Legal and Investigative Concepts III is the fourth training module of the Reserve Officer Law Enforcement Academy. Course content is based on the Oregon Department of Public Safety Standards and Training police academy lesson plans. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ194 ROLEA Module 4 is a college-level transfer course that serves as an elective available to students majoring in criminal justice seeking to fulfill requirements in Associate of Applied Science Degree in Criminal Justice using the ROLEA option. The course is also available to students sponsored by regional law enforcement agencies that have reserve officer programs. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

CJ195 (4 credits)
ROLEA Module 5 - Legal and Investigative Concepts IV

ROLEA Module 5 - Legal and Investigative Concepts IV is the fifth training module of the Reserve Officer Law Enforcement Academy. Course content is based on the Oregon Department of Public Safety Standards and Training police academy lesson plans. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ195 ROLEA Module 5 is a college-level transfer course that serves as an elective available to students majoring in criminal justice seeking to fulfill requirements in Associate of Applied Science Degree in Criminal Justice using the ROLEA option. The course is also available to students sponsored by regional law enforcement agencies that have reserve officer programs. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

CJ196 (4 credits)
ROLEA Module 6 - Police Skills Proficiency I

ROLEA Module 6 - Police Skills Proficiency I is the sixth training module of the Reserve Officer Law Enforcement Academy. Course content is based on the Oregon Department of Public Safety Standards and Training police academy lesson plans. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ196 ROLEA Module 6 is a college-level transfer course that serves as an elective available to students majoring in criminal justice seeking to fulfill requirements in Associate of Applied Science Degree in Criminal Justice using the ROLEA option. The course is also available to students sponsored by regional law enforcement agencies that have reserve officer programs. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

CJ197 (4 credits)
ROLEA Module 7 - Police Skills Proficiency II

ROLEA Module 7 - Police Skills Proficiency II is the seventh training module of the Reserve Officer Law Enforcement Academy. Course content is based on the Oregon Department of Public Safety Standards and Training police academy lesson plans. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ197 ROLEA Module 7 is a college-level transfer course that serves as an elective available to students majoring in criminal justice seeking to fulfill requirements in Associate of Applied Science Degree in Criminal Justice using the ROLEA option. The course is also available to students sponsored by regional law enforcement agencies that have reserve officer programs. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

CJ198 (4 credits)
ROLEA Module 8 - Police Skills Proficiency III

ROLEA Module 8 - Police Skills Proficiency III is the eighth training module of the Reserve Officer Law Enforcement Academy. Course content is based on the Oregon Department of Public Safety Standards and Training police academy lesson plans. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ198 ROLEA Module 8 is a college-level transfer course that serves as an elective available to students majoring in criminal justice seeking to fulfill requirements in Associate of Applied Science Degree in Criminal Justice using the ROLEA option. The course is also available to students sponsored by regional law enforcement agencies that have reserve officer programs. Prerequisite: Students must be agency sponsored or qualify for admission by meeting eligibility requirements established by the Criminal Justice Department.

CJ199 (variable credits)
Special Studies: Criminal Justice

List major historical milestones and patterns in the development of modern corrections philosophies and practices. The Criminal Justice Program seeks to prepare students for criminal justice related careers and for advanced study in the field. Special studies courses may be used as electives available to students majoring in criminal justice seeking to fulfill requirements in their program of study. Prerequisite: WR115 or designated placement score.

CJ200 (4 credits)
Introduction to Criminology

Previously offered as course number CJ101/SOC244. Offers an interdisciplinary perspective of crime and criminal behav-

ior 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. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ200/SOC244 is a college-level transfer course that is a core requirement for degrees offered through the Criminal Justice Department. Prerequisite: WR115 or designated placement score. Recommended prerequisite: LIB127.

CJ201 (4 credits)
Juvenile Delinquency

This course presents a philosophical, historical, and practical survey of juvenile justice administration in the United States. In the context of an interdisciplinary framework, theories, factors, and characteristics of delinquency will be presented and treatment and delinquency prevention programs will be surveyed. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ201 is a college-level transfer course that is a core requirement for degrees offered through the Criminal Justice Department. Prerequisite: WR115 or designated placement score. Recommended prerequisite: LIB127.

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. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ203 is a college-level transfer course that is an approved elective for degrees offered through the Criminal Justice Department. Prerequisite: WR115 or designated placement score. Recommended prerequisite: LIB127.

CJ210 (3 credits)
Criminal Investigation

An introduction to the investigative process and to 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. The Criminal Justice Program seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ210 Criminal Investigation is a college-level transfer course and serves as an elective available to students majoring in criminal justice seeking to fulfill requirements in their program of study. The course is also available to non-majors seeking a general elective course of interest. Prerequisite: WR115 or designated placement score. Recommended prerequisite: LIB127.

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. The Criminal Justice Program seeks to prepare students for criminal justice-related careers and for advanced study in the field. CJ214 is a college-level transfer course and is a core requirement for degrees offered through the Criminal Justice Department. Prerequisites: WR115 or designated placement score, and CJ100. Recommended prerequisite: CJ120.

CJ220 (4 credits)
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. The Criminal Justice Program seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ220 is a college-level transfer course and is a core requirement for students majoring in criminal justice seeking to fulfill requirements in their program of study. The course is also available to non-majors seeking a general elective course of interest. Prerequisite: CJ120.

CJ221 (4 credits)
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. The Criminal Justice Program seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ221 Constitutional Criminal Procedure is a college-level transfer course and serves as a core requirement for students majoring in criminal justice seeking to fulfill requirements in their program of study. The course is also available to non-majors seeking a general elective course of interest. Prerequisite: CJ120.

CJ223 (4 credits)
Evidence and Trial Process

This course 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 courtroom are presented. Aspects of procedural law directly related to evidence issues are reviewed. Case development and trial preparation are emphasized through mock trial exercises. The Criminal Justice Program seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ223 Evidence and Trial Process is a college-level transfer course and serves as a core requirement for students majoring in criminal justice seeking to fulfill requirements in their program of study. The course is also available to non-majors seeking a general elective course of interest. Prerequisite: CJ120.

CJ229 (4 credits)
Community Corrections and Casework

Examines community corrections philosophy, 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, along with other treatment modalities. The Criminal Justice Department seeks to prepare students for criminal justice related careers and for advanced study in the field. CJ229 is a college-level transfer course and serves as an elective available to students majoring in criminal justice seeking to fulfill requirements in their program of study. The course is also available to non-majors seeking a general elective course of interest. Prerequisites: WR115 or designated placement score. Recommended prerequisite: LIB127.

CJ243 (4 credits)
Drugs, Crime and Addiction

This course will introduce students to the dynamics of drug and alcohol addiction, the social and legal issues of drug abuse, as well as examine the political considerations behind contemporary drug enforcement policy. It will also explore the historical origins of the illegal drug trade. CJ243/ SOC243 Drugs, Crime, and Addiction is a college-level transfer course and is a core requirement for students majoring in Human Services. The course serves as an elective available to students majoring in Criminal Justice seeking to fulfill requirements in their program of study. The course is also available to non-majors seeking a general elective course of interest. Prerequisite: WR115 or designated placement score. Recommended prerequisites: COMM111, LIB127 and: WR121.

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: Prior arrangements with faculty or the Department Chair.

CJ280 (variable credits)
CWE/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 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. Students should complete this course within the last 2 terms of their degree. Prerequisite: CWE courses require prior arrangements with faculty or the Department Chair.

COMM - COMMUNICATION

Lower Division Collegiate

COMM100 (3 credits)
Basic Communication

Offers a basic overview of the communication discipline and emphasizes the skills development of best communication practices in different contexts. Topics to be covered include intra- and interpersonal communication, small group processes, non-verbal communication, culture, and public expression. Prerequisite: WR115 or designated placement score.

COMM111 (4 credits)
Fundamentals of Public Speaking

Introduces public speaking that is designed to help students overcome nervousness when speaking before a group, learn the steps involved in speech preparation and delivery, and improve skills in analyzing and evaluating the speeches of others. Prerequisite: WR115 or designated placement score.

COMM115 (4 credits)
Introduction to Intercultural Communication

Provides an overview of communication from an intercultural perspective. Students will learn how culture impacts social identities, communication behaviors, and meaning. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement score.

COMM201 (4 credits)
Media and Society

Introduces the study of mass communication, exploring such areas as media theory, ethics, media production, content, and societal impact. Prerequisite: WR115 or designated placement score.

COMM218 (4 credits)
Interpersonal Communication
Examines the role of interpersonal communication in human relationships. The focus is on a relational view of communication - one that explores how relationships are created, negotiated, maintained and terminated. Prerequisite: WR115 or designated placement score.

COMM225 (4 credits)
Small Group Communication and Problem-solving
Examines the nature of communication in a group or team context. Students will learn about individual and group roles, methods of negotiation and problem-solving, leadership, and the evolving nature of groups in business and society. Prerequisite: WR115 or designated placement score. Co-requisite: WR121.

COMM237 (4 credits)
Communication and Gender
Examines communication similarities and differences as related to gender and sex. More specifically, this class explores the relationship between one's sex, sexual preference, and gender identity with cultural and social expectations towards the creation and management of meaning. Gender issues to be explored include the dimensions of power, cultural and social values, language use, nonverbal communication, conflict resolution, and romance. Fulfills cultural literacy requirement within the AAOT degree. Prerequisites: COMM100, COMM111, or COMM218

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. Prerequisites: COMM100 or COMM111.

COMM280 (variable credits)
CWE/Communication
Cooperative education is a supervised program of on-the-job training for college credit in a Communication related area. Students are placed in a related industry, business, agency or organization which has been approved by the College as having the interest, personnel and resources to serve as a training center. The goal of cooperative education is to provide a learning experience which enriches and strengthens the student's education, personal development, and vocational preparation. It joins educators and employers in developing the community's greatest asset - its human resources. Prerequisite: CWE courses require prior arrangements with faculty or the Department Chair.

COMM299 (variable credit)
Special Studies: Communication
Covers a specialized area of communication in a given area of communication such as interpersonal, mass media, or organizational communication. Prerequisites: WR115 or BT113 or designated placement score.

CPL - 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.

CS - COMPUTER SCIENCE

Lower Division Collegiate

CS133B (4 credits)
Visual Basic I
Introduces students with minimal mathematics background to coding and problem solving using the Visual Basic programming language. Prerequisites: CIS120 or documented proficiency and MTH65 or higher level math or designated placement score.

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: CIS120 or documented proficiency and MTH65 or higher level math or documented proficiency.

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. Prerequisites: CIS195 and MTH65 or higher level math or documented 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: CIS120 or documented proficiency and MTH65 or designated placement score. Recommended prerequisite: CIS140.

CS161J (4 credits)
Computer Science I (Java)
Presents the science of programming and problem solving using an object-oriented programming language. Emphasis is on a disciplined approach to algorithm development and problem-solving methods using the object-oriented programming language Java. The course covers basic programming constructs, syntax, semantics, and logic of the Java programming language. The course provides an introduction to object-oriented concepts such as encapsulation, inheritance and polymorphism. Simple UML class diagrams will be introduced and used as a tool for object-oriented design. Prerequisites: Any CIS133 course or CS160, MTH111 or higher level math or designated placement score.

CS161U (4 credits)
Computer Science I (C++)
Presents the science of programming and problem solving. Emphasis is on a disciplined approach to algorithm development and problem-solving methods using the programming language C++. Covers basic programming constructs, syntax, semantics, and logic of the C++ programming language. Topics include algorithms, simple data types, conditional and iterative structures, function definition, structured programming and documentation. Prerequisites: CIS120 or documented proficiency and MTH95 or higher level math.

CS162J (4 credits)
Computer Science II (Java)
Continues CIS161J, covering advanced programming techniques using Java. Topics include graphical user interface programming, advanced event handling, exception handling, streams, and basic file I/O. Advanced data structures and algorithms such as lists and maps are also covered. Object-oriented algorithms and design methods are emphasized. Prerequisite: CS161J.

CS162U (4 credits)
Computer Science II (C++)
Solves complex problems using advanced features of the C++ language. Topics include function usage, pointer data type, dynamic memory allocation, string manipulation, and structure and union data types. Emphasis is on structured program design techniques. Prerequisite: CS161U.

CS162UL
Computer Science II (C++)
Lab associated with CS162U.

CS180 (1 credit)
Computer Programming Recitation
An optional course taken concurrently with a computer programming course. For students who want more help with the material in a programming class, this course will emphasize discussion to clarify concepts being currently covered in the programming class as well as extra short assignments designed to solidify understanding of course material from the programming class. Co-requisites: Any CS133 course, or CS161J or CS161U.

CS234U (4 credits)
Object Oriented Programming in C++
A study of object oriented programming with C++. Beginning and intermediate concepts are covered including classes, objects, member functions, overloading, inheritance, polymorphism, templates, and virtual functions. This course prepares students with a strong C++ background for transfer into upper-division coursework using C++ at a university. Prerequisite: CS162U, CS162UL.

CS234UL
Object Oriented Programming in C++ Lab
Lab associated with CS234U.

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. Prerequisites: CS162U, CS162UL or CS234U, CS234UL, and MTH111. Co-requisite: MTH251.

CS275 (4 credits)
Data Base Development I
Provides students with an introduction to the concepts, skills, and tools involved in relational data base design, implementation, and testing. Students will be introduced to and use Structured Query Language (SQL) for creating a client/server data base and data manipulation. Covers relational data base concepts, data anomalies, and data normalization. Entity-Relationship diagrams will be covered and used as a tool for designing a data base system. CS275 enhances and supplements the programming or networking student's analysis, design, and problem solving skills. Prerequisite: CIS125DB.

DA - 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. Co-requisite: DA101L.

DA101L (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.

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, DA101L 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.

DA102L (1 credit)
Dental Assisting II Lab
Builds on material learned in DA101L, DA102 and DA203, 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. Co-requisites: DA101, DA101L, 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.

DA103 (1 credit)
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: DA101L and DA202.

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, DA101L, 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.

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, DA102L, 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.

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, DA102L, 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.

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. Cohort Prerequisites: DA101, DA101L and DA202. This a limited-entry program that requires completion of 13-19 credits of prerequisite/ preparatory courses and formal acceptance prior to entry.

DA152P (3 credits)
Practicum in Dental Assisting I
Duties will be assigned according to the student's skill level and the work needs of the host site. Students experience firsthand the various 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. Prerequisites: DA102, DA102L, DA150, and DA201. Co-requisite: DA153S.

DA152S (1 credit)
Seminar in Dental Assisting I
Seminars are attended and moderated by an instructor, who uses the feedback gained to evaluate current practicum experiences and improve future practicum experiences.

Prerequisites: DA102, DA102L, DA150, and DA201. Co-requisite: DA152P.

DA153P (3 credits)
Practicum in Dental Assisting II
Duties will be assigned according to the student's skill level and the work needs of the host site. Students experience firsthand 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: mid-level and advanced duties, which may include exposing and processing radiographs, taking alginate impressions and pouring stone models, assisting during surgical procedures, and lab-work preparation for the expanded function class, are appropriate for students enrolled in DA153. Prerequisites: DA152P, DA152S. Co-requisites: DA153S, DA204, DA204L.

DA153S (1 credit)
Seminar in Dental Assisting II
Seminars are attended and moderated by an instructor, who uses the feedback gained to evaluate current practicum experiences and improve future practicum experiences. Prerequisites: DA152P, DA152S. Co-requisites: DA153P, DA204, DA204L.

DA201 (4 credits)
Dental Radiology
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. Prerequisites: DA101, DA101L, and DA202.

DA201L (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. Prerequisites: DA102, DA102L, 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. Prerequisites: Concurrent or prior enrollment in DA101 and DA101L 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, DA102L, 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.

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, DA201L 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.

DA204L (1 credit)
Expanded Functions Dental Assistant Lab

Provides hands-on, clinical instruction of the lecture material presented in DA204. This class prepares the student for the clinical skills required for an expanded function dental assistant (EFDA). Expanded functions are determined by the Oregon Board of Dentistry and may change without prior notice. To be EFDA certified in Oregon, a dental assistant must successfully complete all of the requirements in one of the four pathways administered by the Dental Assisting National Board (DANB). Prerequisites: DA105, DA106, DA152, DA201L, DA203. Co-requisites: DA153, DA204 and successful completion of the first three terms of the cohort. This is a limited-entry program that requires completion of 13-19 credits of prerequisite /preparatory courses and formal acceptance prior to entry.

DDM - DESIGN AND DIGITAL MEDIA

Career and Technical Courses

DDM120 (3 credits)
Digital Graphic Design I

Introduces students to the concepts of graphic design and production by integrating design principles with software capabilities. Exercises include an introduction to the use of Adobe Photoshop, Illustrator and InDesign. Concepts in color, typography, logo design, page layout, package design and Web page design are covered. Additional lab hours required. The intent of this class is to provide a sound foundation and experience in the organization of design elements, individual creative processes, a heightened sense of aesthetics; a grasp of printed and Web principles, and basic typography. These experiences shall provide a working ability in graphic design for students interested in graphic design, web design or for personal enrichment. Co-requisite: CIS120 or documented proficiency.

DDM125 (3 credits)
Digital Photography

Offers instruction in the use of a SLR digital camera and fundamentals of digital photography. Topics include, image composition, digital camera techniques in various formats including raw, GIF, JPEG, and PNG, digital processing using Adobe Photoshop and digital printing. Students will learn how to manually operate a digital camera, taking control of aperture settings, shutter speeds, and ISO controls. Students will learn how various lenses effect the depth of field and image quality of an exposure. No darkroom work is required. Students must provide their own digital single lens reflex cameras and these cameras must be able to allow for manual adjustment of shutter speed and aperture. Does not fulfill degree or certificate requirements for computer proficiency. Additional studio hours required. Prerequisites: CIS120 or documented proficiency. Recommended prerequisites: ART115 and DDM160.

DDM130 (3 credits)
Introduction to Adobe Web Tools

Provides an overview of various Adobe applications including Acrobat DC, Dreamweaver, Spark, Portfolio and Behance to create web and portfolio sites, social media posts and videos. Free productivity applications for time and income tracking, creating estimates and invoices, and project management will also be explored. Prerequisite: CIS120 or documented proficiency.

DDM131 (3 credits)
Content Management Systems (Word Press)

Introduces a broad range of topics related to various Content Management Systems, social media marketing, email marketing and SEO practices that will allow students to explore and understand the fundamentals of building CMS database-driven sites through the creation of their own responsive, user friendly website. Additional topics will include purchasing and configuring a domain name and web hosting, installing WordPress, content creation and customization, modifying themes using CSS and HTML, choosing and installing plugins and payment platforms, website design trends and UX/UI functionality. Prerequisite: CIS120 or documented proficiency.

DDM140 (3 credits)
Electronic Publishing Applications I (InDesign)

Introduces the student to the computer software used in the development of page design and layout. Emphasis will be placed on the production of basic business publications including newsletters, fliers, brochures, etc. General principles of page layout design will be studied including the placement of text, images, illustrations and logotypes and the important synthesis of these elements. Additional lab hours required. Prerequisite: CIS120 or documented proficiency.

DDM141 (3 credits)
Electronic Publishing Applications II (InDesign)

Emphasizes design and proper preparation of electronic prepress files for print and digital production. Students will execute print and interactive projects for the web using advanced design and publishing tools in InDesign. Students will also examine many advanced layout and printing techniques, multiple page document preparation and the proper methods for sending files to printers and online publishers. Additional lab hours required. Prerequisite: DDM140.

DDM150 (3 credits)
Computer Illustration (Illustrator)

Develops competency in the creation of computer-generated illustrations. Includes instruction in creating vector graphics and techniques for logo design as well as brochure, book, magazine, and advertising illustration. Adobe Illustrator is currently the application used in this course. Prerequisite: CIS120 or documented proficiency.

DDM160 (3 credits)
Digital Imaging: Photoshop

Explores a wide range of digital imaging techniques from photo touch-ups to realistic scenes created from scratch. Digital image creation and manipulation commands and operations will be covered. Design, publishing concepts, and terms will be discussed. Particular attention will be given to creating files for effective output whether for printed media or electronic. Adobe Photoshop is the application currently used. Prerequisite: CIS120 or documented proficiency.

DDM161 (4 credits)
Advanced Digital Imaging (Photoshop for Web)

Provides intermediate-level digital imaging training using Photoshop CC for designing websites. Students learn to create shared libraries of graphics, colors and styles assets between Adobe programs and generate assets and extract assets for web at different device resolutions. The use of Dreamweaver CC to extract style information and assets from Photoshop comps will be explored. Emphasis is on utilization of effective design principles and exploration of industry-appropriate production tools. Prerequisites: CIS195, DDM120, DDM160, and DDM130.

DDM170 (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: DDM120, DDM160, and DDM150.

DDM180 (3 credits)
Introduction to Digital Video (Premiere)

Introduces digital video production planning, acquisition, comprehension, editing and distribution, and covers special effects and compositing techniques. Also includes potential uses of digital video in related computer applications, and a hands-on component using Adobe software to edit and composite a variety of digital video animation projects. Prerequisite: CIS120 or documented proficiency.

DDM181 (3 credits)
Advanced Digital Video

Introduces digital video production planning, project management, collaboration, acquisition, comprehension, creative problem-solving, leadership, editing and distribution, and covers special effects and compositing techniques. Also includes potential uses of digital video in related computer applications, and a hands-on component using Adobe software to edit and composite a variety of digital video projects. Class would culminate with small groups preparing and producing short films. Additional lab hours required. Prerequisite: DDM180.

DDM190 (3 credits)
Introduction to Animation (Adobe Animate)

Using the Adobe Animate application, students design rich media Web content containing interactivity, animation and sound. Students gain an understanding of Animate's logic, concepts and language. In addition, students will learn of designer/developer resources for continued self-paced learning. Topics include introduction to rich media; the Animate drawing tools; creating Animate movies; adding graphic elements; designing with text; symbols, instances, and libraries; working with sound and motion; using ActionScript to create interactivity; combining Animate with HTML; integrating Illustrator and Photoshop with Animate using Animate Catalyst; publishing an Animate website. Prerequisite: CIS120 or documented proficiency.

DDM191 (3 credits)
Advanced Animation II

Introduces animation and object-oriented programming concepts and techniques. Includes tools used by the creative industry for animation productions and interactive media. Topics covered include representing form and transforms in two dimensions, capturing user actions and driving application behavior interactively. Prerequisites: CIS195, DDM190, and MTH95 or designated placement score.

DDM200 (3 credits)
Survey of Design and Film History
This is a survey course on the major developments, movements and critical approaches of design and film from the Industrial Revolution to the present. This course emphasizes an understanding of the historical, cultural, commercial and aesthetic contexts that influence graphic and cinematic styles of the twentieth century, using the works of designers, artists film-makers. Students will conduct research, prepare a research paper, a presentation and create a poster on a chosen subject of the 20th Century. Additional lab hours required. Prerequisites: WR121 or designated placement score, and DDM120.

DDM220 (3 credits)
Digital Graphic Design II
Explores the communication of ideas and information through visual means. Students apply design process and principles, visual language, and the art of problem solving to finding creative solutions to complex visual communications problems. Various layout formats, the creative use of typography, concept origination and development are also addressed. A professional approach to the discipline will be stressed. Additional lab hours required. Prerequisite DDM120.

DDM221 (3 credits)
Production Graphics
Introduces students to the print production process with an emphasis on document preparation and production planning and management. Students will learn about the history of printing and the commercial printing process. The full range of the design-to-print process will be covered. Topics include paper selection, soliciting bids and preparing quotes, selecting printers, photographers and other suppliers, design editing, typography selection and copy-fitting, proper image preparation, understanding color models for print, proofing and editing, and binding and finishing techniques. Additional lab hours required. Prerequisites: DDM140, DDM150, and DDM160.

DDM223 (3 credits)
Digital Graphic Design III
Focuses on creative typography for visual communication and stresses the use of typography as a design and communication tool. Emphasis will be on formal design issues related to typography, composition, scale and 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: DDM220 and

DDM221.

DDM224 (3 credits)
Digital Graphic Design IV
Builds on basic concepts of graphic design and introduces systems of visual organization and composition for two- and three-dimensional design. Emphasis is on problem solving and idea generation skills to develop strong conceptual solutions. Students will gain experience solving complex visual communication problems through advanced design projects in logo design, package design, point-of-purchase and publication design. Additional lab hours required. Prerequisites: DDM220 and DDM221.

DDM225 (3 credits)
Digital 3D Graphics I (Blender)
Provides an introduction to the principles of developing basic 3D graphic imagery and animations. Using a hands-on approach, students develop competence in using Blender to create 3D graphics. Topics include: modeling objects, generating surfaces, and working with textures, cameras, and lighting. Prerequisites: CIS120 or documented proficiency. Recommended prerequisites: DDM150 and DDM160.

DDM226 (3 credits)
Digital 3D Graphics Design 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: DDM225.

DDM229 (3 credits)
Portfolio and Professional Practices
This course will discuss the opportunities in the various fields of Web design, and graphic design. Students will be guided in the preparation of a digital portfolios of their work, in the development of resumes, a personal identity system 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. Prerequisites: DDM220 and DDM221.

DDM230 (3 credits)
Studio Capstone
Advanced exploration of completing a community project, with the emphasis upon creative problem solving, project management and professional practices. Students will learn to solve complex visual communication problems through projects in design, advertising, social media and video production. Provides the opportunity to work collaboratively on special projects and includes in-depth study of processes and procedures. Additional lab hours required. Prerequisite: DDM220. Co-requisite: DDM229.

DDM235 (4 credits)
Website Design
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: CIS195.

DDM280 (variable credits)
CWE/Design and Digital Media
Provides work-related experience and study in selected occupational environments for second-year computer science students. Prerequisites: DDM220 and DDM221.

DS - DIESEL TECHNOLOGY

Career and Technical Courses

DS111 (6 credits)
Basic Electricity for Diesel Technicians I
Introduces the fundamentals of basic electricity, starters and power generation, the use of test equipment, and troubleshooting techniques. Course required for all entering diesel technology students.

DS112 (5 credits)
Gasoline Engines Rebuild
Reviews theory and construction of various gasoline internal combustion engines and how to rebuild, service, inspect, and repair them. Prerequisite: DS131.

DS113 (5 credits)
Diesel Engine Overhaul
Provides diesel engine theory and hands-on experience in rebuilding and servicing diesel engines including testing, diagnosis, measurements, and repair. Prerequisite: DS131.

DS120 (5 credits)
Diesel Practices
Introduces basic mechanical shop safety and industrial practices, professionalism and ethics, shop tools, and equipment use. Vehicle maintenance and service procedures included. Course required for all entering diesel technology students.

DS131 (4 credits)
Diesel Engine Dynamics and Diagnosis
Provides the theory of operation and hands-on experience in tuning up and troubleshooting various live diesel engines. Topics include tune-up, engine airflow principles, and performance diagnosis. Prerequisites: DS111 and DS120.

DS134 (3 credits)
Basic Electricity for Diesel Technicians II
Introduces first-year students to electrical and electronic theory and more advanced topics that relate to heavy, mid-range, light, stationary, marine diesel, propane, and natural gas applications. Students will have the opportunity to achieve task mastery by successful completion of each ASE/NATEF task. Prerequisites: DS111 and DS120.

DS141 (4 credits)
Heavy Equipment Power Trains
Studies the principles of operation of heavy transmissions, differentials, and clutches, and provides for hands-on experience in the servicing, inspecting, and rebuilding of them. Prerequisites: AM111, AM111L or DS111 and AM120, AM120L or DS120.

DS151 (5 credits)
Heavy Equipment Brakes
Studies the theories of braking system operation and provides hands-on experience in the rebuilding, repairing, and adjusting of the various braking systems including hydraulic, air, and electrical types, as well as ABS brake hydraulics and operation.

DS160 (5 credits)
Heavy Equipment Suspension and Steering Systems
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/AM111L or DS111, and AM120/AM120L or DS120.

DS199 (variable credits)
Selected Topic Workshop
Presents workshops dealing with the diesel and heavy equipment industry and related issues; scheduled as needed. Prerequisite: Diesel student enrolled as a declared major in the program.

DS232 (3 credits)
Heavy Equipment Fuel Systems
Develops skills and knowledge for working with diesel fuel injection, turbo chargers, super chargers, gasoline, and alternative fuel systems. Includes hands-on experience in the servicing and rebuilding of components in each system. Prerequisite: DS131.

DS233 (4 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 (3 credits)
Hydraulic Systems for Heavy Equipment

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, AM111L or DS111 and AM120, AM120L 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 (5 credits)
Preventative Maintenance Inspection

Provides culmination of all ASE/NATEF and academic courses required for completion and/or graduation from the Diesel Technology program. It requires knowledge and demonstration of basic engine maintenance and repair, heavy duty brakes, drive train, air conditioning, fuel and emission systems, electronics, safety inspection, servicing, maintenance records, and repairs of all onboard systems. Prerequisites: DS113, DS131, DS151, DS160, DS232 and DS270.

DS280 (variable credits)
CWE/Diesel Technology

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/AM111L or DS111 and AM120/AM120L, or DS120.

DS290 (variable credits)
Diesel Repair Lab

Provides live work experience in all aspects of repair expected of an entry-level line technician. Includes engine performance, diagnosis and repair of engine components, chassis, power trains, brakes, suspension systems, hydraulic, and electrical systems. Course is for second-year students or can be taken in place of Cooperative Work Experience. Course is repeatable up to six credits.

ECE - 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: BT113 or WR115, or designated placement 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 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

ECE125A (1 credit)
Early Childhood Development (Part A--Prenatal/Infant)

An overview of child development from conception through one year of age. The focus is on studying and observing the physical, cognitive, language, emotional, and social aspects of the individual during this period. This course includes the CDA subject areas of child growth and development and observation. Child observations are required. Community observations in early childhood settings may be required. Course may include an online component. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores

ECE125B (1 credit)
Early Childhood Development (Part B) Toddler

An overview of child development from one through two years of age. The focus is on studying and observing the physical, cognitive, language, emotional, and social aspects of the individual during this period. This course includes the CDA subject areas of child growth and development and observation. Child observations are required. Community observations in early childhood settings may be required. Course may include an online component. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores

ECE125C (1 credit)
Early Childhood Development (Part C) Preschool/Primary Ed

An overview of child development from three through eight years of age. The focus is on studying and observing the physical, cognitive, language, emotional, and social aspects of the individual during this period. This course includes the CDA subject areas of child growth and development and observation. Child observations are required. Community observations in early childhood settings may be required. Course may include an online component. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement 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 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

ECE126A (1 credit)
Early Childhood Education Best Practices (Part A)

Examines the basics of establishing a safe classroom environment, promoting good health and nutrition for young children, and arranging an early childhood classroom so that children will become self-directed in their learning. This course includes the CDA subject areas of Safe, Healthy, and Learning Environment. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores

ECE126B (1 credit)
Early Childhood Education Best Practices (Part B)

Examines promoting children's physical development by determining their needs and providing appropriate materials and activities. It also includes skills for promoting children's cognitive development by involving them in exploring their world. This course includes the CDA subject areas of Physical and Cognitive. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores

ECE126C (1 credit)
Early Childhood Education Best Practices (Part C)

Examines the promotion of children's communication skills through listening, speaking, emergent reading and emergent writing. This course includes the CDA subject areas of Communication. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement 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 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

ECE135A (1 credit)
Applied Child Development (Part A) Advancing Creative Skills

Examines the importance of encouraging creativity in young children. This course includes the CDA subject area of Creative. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores

ECE135B (1 credit)
Applied Child Development (Part B) Promoting a Positive Self-Concept & Social Skills

Examines the importance of promoting social and emotional development in young children. This course includes the CDA subject areas of Self and Social. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores

ECE135C (1 credit)
Applied Child Development (Part C)

Examines the importance of promoting social and emotional development in young children. Explores appropriate guidance techniques. This course includes the CDA subject area of Guidance. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement 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 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

ECE136A (1 credit)
A Professional Overview (Part A) Promoting Family Involvement

Examines the importance of promoting family involvement in early childhood programs in order to promote children's positive development. This course includes the CDA subject area of Families. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores

ECE136B (1 credit)
A Professional Overview (Part B) Providing Program Management

Examines the importance of developing an effective early childhood classroom program based on the needs and interests of the children. This course includes the CDA subject area of Program Management. Community observations in early childhood settings are required. Course may include an online component.

ECE136C (1 credit)
A Professional Overview (Part C) Promoting Professionalism

Examines the importance of continuing professional growth. This course includes the CDA subject area of Professionalism. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement 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: BT113 or WR115 or designated placement score; and ECE161, ECE163, or ED165.

ECE152 (3 credits)
Fostering Creativity

Focuses on understanding and implementing a developmental approach to providing creative experiences and opportunities for young children. The class will be taught with an active learning and cooperative education philosophy using group discussions and hands-on learning. Prerequisites: BT113 or WR115 or designated placement score. Recommended prerequisite: ECE125, ECE163, or ED165.

ECE154 (3 credits)
Children's Literature and Literacy

Surveys children's literature for young children and emphasizes setting up environments and planning activities that support emerging language and literacy skills in young children. Covers the developmental continuum of language, reading, and writing skills. Prerequisites: BT113 or WR115 or designated placement score; and ECE125, ECE161, or ECE163.

ECE161 (3 credits)
Infant/Toddler Development

Explores child growth and development in detail from the prenatal period to age three, including elements of quality group care for infants and toddlers. Direct experience observing infants and toddlers in a group setting will be an important part of the course. Course may include an online component. Prerequisite: BT113 or WR115 or designated placement score.

ECE163 (3 credits)
Preschool/Primary Development

Explores child growth and development in detail from three through eight years of age, including elements of quality programs for preschool and school-age children. Direct experience observing young children in a group setting will be an important part of the course. Course may include an online component. Prerequisites: BT113 or WR115 or designated placement score.

ECE175 (3 credits)
Developmentally Appropriate Practices

Explores developmentally appropriate practices (DAP) for children from birth through age 8. Examines appropriate physical environments, as well as practices and environments that promote positive development in all developmental domains. Community observations in early childhood settings are required. Course may include an online component. Prerequisites: BT113 or WR115 or designated placement score; and ECE125, ECE161, ECE163, or ED165.

ECE199 (variable credits)
Selected Topics in Early Childhood Education

Studies issues related to early childhood education.

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: BT113 or WR115 or designated placement score; and 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: BT113 or WR115 or designated placement score, and ECE161, ECE163.

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: BT113 or WR115 or designated placement score.

ECE243 (3 credits)
Promoting Child Health and Physical Development

Provides an understanding of the essential elements of health, safety, and nutrition for young children. Methods and materials for enhancing motor development will be examined. Course may include an online component. Course is equivalent to ECE243A / ECE243B / ECE2343C combined. Prerequisites: BT113 or WR115 or designated placement test score, and ECE161, ECE163, or ED165.

ECE243A (1 credit)
Promoting Child Health and Development: Health and Wellness

Provides an understanding of the essential elements of health, safety, and nutrition for young children. Methods and materials for enhancing motor development will be examined. Prerequisites: BT113 or WR115 or designated placement score, and ECE161, ECE163, or ED165.

ECE243B (1 credit)
Promoting Child Health and Development Nutrition and Physical Activity

Provides an understanding of the essential elements of health, safety, and nutrition for young children. Methods and materials for enhancing motor development will be examined. Prerequisites: BT113 or WR115 or designated placement score, and ECE161, ECE163, or ED165.

ECE243C (1 credit)
Appropriate Practices and Special Needs

Provides an understanding of the essential elements of health, safety, and nutrition for young children. Methods and materials for enhancing motor development will be examined. Prerequisites: BT113 or WR115 or designated placement score, and ECE161, ECE163, or ED165.

ECE244 (3 credits)
Observation and Assessment

Focuses on the use of observation as a tool for discovering children's interests, assessing development and behavior, and planning responsive curriculum. Observations in community early childhood settings are required. Prerequisites: Bt113 or WR115 or designated placement score; and 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: BT113 or WR115 or designated placement score, and ECE151, ECE161, ECE163, or ED165.

ECE246 (3 credits)
Child, Family and Community

Focuses on developing skills for establishing effective relationships, based on mutual respect, between early childhood professionals and families of the children with whom they are working. Course may include an online component. Prerequisites: BT113 or WR115 or designated placement score, and ECE161, ECE163, or ED165.

ECE248 (3 credits)
Children with Disabilities and Their Families

Explores ways teachers can facilitate the inclusion of young children with disabilities in a child care or classroom setting. Covers characteristics of disabilities, environmental and curricular adaptations, and instructional strategies for supporting learning. Impact of disability on families, working in partnership with parents, and participation on the IFSP/IEP team will also be addressed. Prerequisites: BT113 or WR115 or designated placement score, and ECE161, ECE163, or ED165.

ECE250 (3 credits)
Infant/Toddler Environments

Explores planning and evaluating physical and social environments for children birth to 3 years old. Includes room arrangement, appropriate equipment, outdoor areas, and creation of a nurturing environment. Course may include an online component. Prerequisites: BT113 or WR115 or designated placement score; and ECE161.

ECE251 (3 credits)
Preschool Environments

Explores planning and evaluating physical and social environments for 3 to 8 year-old children. Includes room arrange-

ment, appropriate equipment, outdoor areas, and creation of a nurturing environment. Prerequisites: BT113 or WR115 or designated placement score, and ECE163.

ECE252 (3 credits)
Family Child Care Environment
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: BT113 or WR115 or designated placement score, and ECE161 and ECE163.

ECE254 (3 credits)
Preschool Curriculum
Designed for those working with preschool-aged and kindergarten children. Covers how to select, present, and evaluate materials and activities for 2½- to 6-year-old children. Course may include an online component. Prerequisites: BT113 or WR115 or designated placement score; and ECE161.

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: BT113 or WR115 or designated placement score, and ECE161.

ECE256 (3 credits)
Primary Curriculum
Designed for those planning to work with primary-age children. Covers how to select, present, and evaluate materials and activities for children six to eight years old. Emphasizes how to fulfill curriculum standards using developmentally appropriate teaching strategies. Course may include an online component. Prerequisites: BT113 or WR115 or designated placement score, and ECE163 or ED165.

ECE258 (3 credits)
Early Childhood Home Visitation
Explores the role of the early childhood home visitor in providing effective services to families with young children in the home setting. Focuses on understanding the parent-child relationship and attachment, stages of change, and the trauma response. Prerequisites: BT113 or WR115 or designated placement score, and HS155, HS158.

ECE261 (3 credits)
Advanced Practicum I and Seminar
Provides supervised teaching of children in a lab school or community setting, applying what has been learned through coursework and previous lab experiences. Course includes an online component. Criminal history check required as students will be in early childhood or elementary school settings. Prerequisites: BT113 or WR115 or designated placement score, 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: BT113 or WR115 or designated placement score, and ECE161, ECE163, or ED165.

ECE266 (3 credits)
Spanish for Early Childhood/Elementary Professionals
Focuses on developmentally and linguistically appropriate practices for second language learners as well as developing a perspective of cultural competency. Enables students to develop basic vocabulary and learn cultural activities in Spanish to use with Spanish-speaking children and parents in a variety of educational situations Prerequisites: BT113 or WR115 or designated placement score.

ECE275 (3 credits)
Anti-bias Education
Explores the role of the adult in helping children accept and appreciate diversity and uphold values of equity, inclusion and social justice. Course may include an online component. Prerequisites: BT113 or WR115 or designated placement score, and ECE161, ECE163, or ED165.

ECE285 (3 credits)
The Early Childhood Professional
Explores professional code of ethical conduct, aspects of leadership as an early childhood professional, and the development of a professional philosophy and portfolio. Provides the opportunity to engage professionally in a community project. Prerequisites: BT113 or WR115 or designated placement scores. Recommended prerequisite: ECE100.

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: BT113 or WR115 or designated placement scores, and ECE136.

ECON - 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: BT114 or WR115 or designated placement scores.

ECON201 (4 credits)
Principles of Microeconomics
Introduces students to consumer and company behavior and the market process. The economic analysis of different market structures of perfect competition, imperfect competition, and monopoly are analyzed along with the principles of income distribution and resource allocation under a market system. Prerequisites: BT114 or WR121, or designated placement scores. Recommended prerequisite: CIS125WW.

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: BT114 or WR121 or designated placement scores. Recommended prerequisite: CIS125WW.

ED - 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. Co-requisites: WR115 or BT113.

ED121 (1 credit)
Leadership II
Introduces basic skills in leadership. Special attention is given to assessing and developing basic management skills and organizational systems awareness. Prerequisite: ED120. Co-requisites: WR121 or BT114.

ED122 (1 credit)
Leadership III
Selected projects are provided to teams of students that will require the use of effective leadership and management skills to achieve success. Special attention is given to assessing and providing students with meaningful coaching and feedback on their use of key leadership and management skills. Prerequisite: ED121. Co-requisites: WR121 or BT114.

ED165 (3 credits)
Child Development
Explores child growth and development from the prenatal period through middle childhood. Course may include an online component. Prerequisite: WR115 or designated placement scores.

ED170 (1 credit)
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: BT113 or WR115 or designated placement scores, and ECE125, ECE161, ECE163, or ED165.

ED199 (variable credits)
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. Prerequisite: Associate or bachelor's degree.

ED200 (3 credits)
Introduction to Teaching
This course investigates the historical, global, social, legal and philosophical foundations of education. It provides an overview of the structure and contemporary issues of the American education system. It explores the roles and ethical consideration of the education profession. Prerequisites: WR115 or designated placement scores.

EET - 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. Recommended prerequisite: MTH20.

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 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores. Recommended prerequisite: MTH60.

EET105 (4 credits)
Digital Concepts for Manufacturing

Exploration of digital fundamental concepts and applications relevant to manufacturing processes and Programmable Logic Controllers (PLC's) including 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 build, test and troubleshoot ladder logic circuits. Students will do analysis of combination logic circuits and their operation and examine the characteristics of TTL and CMOS digital ICs. Students will also be introduced to the fundamentals of latches, flip-flops, decoders, and seven segment LED's. Safety practices in the work place are emphasized including personal and equipment protection, component (ESD) and ROHS compliant standards. Prerequisite: EET104.

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), and 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 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: CIS120 or documented proficiency, and MTH20 or designated placement score.

EET118 (5 credits)
Introduction to Renewable Energy Systems

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. Co-requisite: MTH63 or MTH60 or designated placement score.

EET120 (4 credits)
Renewable Energy Systems (RES) Site Analysis and Design

Provides foundational skills and knowledge to complete the pre-planning, site survey, and process for installation of photo voltaic (PV) energy systems. Prerequisites: MTH60 or MTH63 or designated placement score, and EET118, EET125.

EET121 (2 credits)
NABCEP Entry-level Preparation

Provides students with a review of system design, installation, mechanical connections, and safety requirements for photovoltaic (PV) systems in preparation for the NABCEP entry-level certification test. Prerequisites: EET120 and MTH60 or MTH63 or designated placement scores.

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. Co-requisite MTH60 or MTH63 or designated placement score.

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. Prerequisites: EET125. Co-requisite: MTH60 or MTH63 or designated placement score.

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. Recommended prerequisites: CIS120 or documented proficiency and MTH20.

EET129 (3 credits)
Introduction to Embedded Systems

Provides students with a hands-on introduction to embedded systems and basic electronic interfacing circuits. Introduces DC circuits that are used with embedded systems. Explores the use of embedded C programming language to control a microcontroller to turn on and off LEDs, motors and speakers. Enhanced learning provided by practical lab projects and programming to implement decisions based on input conditions to control output interface circuits. The lab assignments provide opportunities for increased knowledge and proficiency in the proper use of industry-standard electronics test equipment. Recommended prerequisites: CIS120 or documented proficiency and MTH20.

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, flipflops 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: EET125, EET129, and EET112.

EET131 (5 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 the development of troubleshooting skills. Prerequisite: EET126.

EET180 (1 credit)
CWE/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: Initial standing in Electronics Technician certificate or Electronics Technology A.A.S. degree program.

EET199 (variable 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: MTH20 and WR90 or WR91 or designated placement score. Co-requisite: CIS120 or documented proficiency.

EET205 (1 credit)
ISCET Certification/Preparation
Prepares students for ISCET associate level examination using software, review exercises, and ISCET study guide. Emphasis is on direct current, alternating current, digital and solid-state theory, devices, and circuits. In addition, component, circuit, and systems troubleshooting is reviewed with an emphasis on proper test equipment calibration, set up, and usage. Prerequisite: EET220.

EET215 (5 credits)
Operational Amplifiers and Linear Integrated Circuits
Covers theory, operational characteristics, and typical applications of operational amplifier and linear integrated circuit devices. Operational amplifier topics include differential amplifier theory, application of positive and negative feedback, operational characteristics, and typical circuit applications. Linear integrated circuit topics include power supplies, special amplifier circuits, and data conversion circuits. In addition to theory and basic circuit applications, emphasis is placed on industry standard circuit applications. Hands-on experience with industry standard test equipment is supplemented with computer simulation to enhance presentation of theory and circuit applications and development of troubleshooting skills. Prerequisite: EET140.

EET220 (5 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 (5 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 solidstate 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. EET241 is a recommended co-requisite.

EET280 (variable credits)
CWE/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: CWE courses require prior arrangements with faculty or the Department Chair.

EMS - EMERGENCY MEDICAL SERVICES

Career and Technical Courses

EMS160 (2 credits)
Electrocardiogram (ECG) Interpretation
Focuses on a basic introduction and understanding of electrocardiograms (ECGs). 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 (i.e. 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: RD90 and WR90 (WR91 substitutes for both RD90 and WR90), and MTH20 or designated placement 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. Co-requisites: ES131 and ES131L, or current EMT license.

EMS211 (4 credits)
Advanced EMT Intermediate - Part I
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. 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. Co-requisite: EMS211L.

EMS211L
Advanced EMT Intermediate - Part I Lab
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.

EMS212 (4 credits)
Advanced EMT Intermediate - Part II

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. Prerequisites: Successful completion of EMS211 and EMS211L. Current Oregon EMT or A-EMT licensure. Prior to clinical experience a criminal background check and drug screen must be completed. Co-requisites: EMS212L and EMS222.

EMS212L (1 credit)
Advanced EMT Intermediate - Part II Lab

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: Successful completion of EMS211 and EMS211L. Current Oregon EMT or A-EMT licensure. Prior to clinical experience a criminal background check and drug screen must be completed.

EMS213 (2 credits)
Advanced EMT Intermediate - Part II

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. Prerequisites: Successful completion of EMS212, EMS212L, and EMS222. Current Oregon EMT or A-EMT licensure. Prior to clinical experience a criminal background check and drug screen must be completed. Co-requisites: EMS213L and EMS223.

EMS213L (1 credit)
Advanced EMT Intermediate - Part II Lab

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: Successful completion of EMS212, EMS212L, and EMS222. Current Oregon EMT or A-EMT licensure. Prior to clinical experience a criminal background check and drug screen must be completed.

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, EMS211L and EMS212, EMS212L. Prerequisites: Successful completion of EMS211 and EMS211L. Current Oregon EMT or A-EMT licensure. Prior to clinical experience a criminal background check and drug screen must be completed. Co-requisites: EMS212, EMS212L, and EMS223.

EMS223 (1 credit)
Advanced EMT Intermediate - Clinical Practice III

Provides clinical experience that focuses on practical application of the skills and knowledge acquired in EMS211, EMS211L, EMS212, EMS212L, EMS213 and EMS213L. Prerequisites: Successful completion of EMS212, EMS212L, and EMS222. Current Oregon EMT or A-EMT licensure. Prior to clinical experience a criminal background check and drug screen must be completed. Co-requisites: EMS213, EMS213L, and EMS222.

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. Co-requisites: EMS271L and EMS281.

EMS271L (2 credits)
Paramedic Part I Lab

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.

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: EMS271, EMS271L and EMS281 with a "C" or better and Current Oregon EMT, AEMT, or EMT Intermediate license. Co-requisites: EMS272L and EMS282.

EMS272L (2 credits)
Paramedic Part II Lab

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: EMS271, EMS271L and EMS281 with a "C" or better and Current Oregon EMT, AEMT, or EMT-Intermediate license.

EMS273 (7 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 EMS Operations, gastrointestinal and renal issues, toxicology, infectious disease, environmental emergencies, endocrinology, and ethical and legal issues. Prerequisites: EMS272, EMS272L and EMS282 with a "C" or better and current Oregon EMT, AEMT, or EMT-Intermediate license. Co-requisites: EMS273L and EMS283.

EMS273L (2 credits)
Paramedic Part III Lab

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: EMS272, EMS272L and EMS282 with a "C" or better and current Oregon EMT, AEMT, or EMT-Intermediate license.

EMS281 (2 credits)
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, and Basic Life Support (BLS) assessments with a Paramedic Field Preceptor. The class will begin with an orientation session to the clinical tracking system and the RCC Paramedic Clinical Manual. Specific procedures and issues common to clinical sites will be reviewed with the students prior to beginning their rotations. Clinical orientation to each site may be required prior to clinical placement. Prerequisites: Current Oregon EMT, AEMT, or EMT-Intermediate license. Co-requisites: EMS271 and EMS271L.

EMS282 (3 credits)
Paramedic Clinical Practice I

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: EMS271, EMS271L, and EMS281 with a "C" or better and current Oregon EMT, AEMT, or EMT Intermediate license. Co-requisites: EMS272 and EMS272L.

EMS283 (3 credits)
Paramedic Clinical Practice I

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: EMS272, EMS272L, and EMS282 with a "C" or better and current Oregon EMT, AEMT, or EMT-Intermediate license. Co-requisites: EMS273 and EMS273L.

EMS284 (9 credits)
Paramedic Clinical Practice IV

This is the field internship portion of the paramedic course. Individual conferences with the course director, clinical coordinator and/or clinical instructors will be conducted throughout the course of the term. Prerequisites: EMS273, EMS273L, and EMS283 with a "C" or better and current Oregon EMT, AEMT, or EMT-Intermediate license.

EMS299 (variable credit)
Special Studies: EMS

Provides inservice training in a variety of emergency medical service topics. Prerequisites: Current Oregon EMT, AEMT, EMT-Intermediate, or paramedic license.

ENG - 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. Course is designed to foster thoughtful interpretation, analysis, and appreciation of fiction. Prerequisite: WR115 or designated placement score.

ENG105 (4 credits)
Introduction to Literature (Drama)

Provides a survey of representative works of drama from different cultures and time periods. In addition to providing an introduction to important plays, playwrights, and historical movements in drama, the course explores the nature of the dramatic experience, with emphasis on understanding and

appreciating live productions. Prerequisite: WR115 or designated placement score.

ENG106 (4 credits)
Introduction to Literature (Poetry)
Explores the artistic use of language and a world made larger through the vicarious experiences offered through poetic expression. Prerequisite: WR115 or designated placement score.

ENG107 (4 credits)
World Literature I
Surveys important works from the literature of early civilizations: Egyptian, Hebrew, Greek, Chinese, Indian, and Roman. Course is designed to foster thoughtful interpretation, analysis, and appreciation of literature. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement score.

ENG108 (4 credits)
World Literature II
Provides insights into the important works from India's Classical Age, China's 'Middle Period,' the rise of Islam, the Middle Ages in Western literature, the Golden Age of Japan, and the Renaissance in Europe. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement score.

ENG109 (4 credits)
World Literature III
Provides a survey of important works of literature representing the 17th century Ottoman Empire, the Enlightenment in Europe, Romanticism in Europe and America, popular art in pre-Modern Japan, 19th century realism, and twentieth century literature in a global context. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement score.

ENG199 (variable credits)
Special Studies: English
The course is offered in a number of formats: workshop, seminar, or independent study. Prerequisite: WR115 or designated placement score.

ENG201 (4 credits)
Shakespeare I
Introduces Shakespeare's plays with an emphasis on current theoretical approaches and performance history. The course will cover three to five plays from among Shakespeare's comedies, romances, histories, and tragedies. Prerequisite: WR115 or designated placement score.

ENG202 (4 credits)
Shakespeare II
Introduces Shakespeare's plays with an emphasis on current theoretical approaches and performance history. The course will cover three to five plays from among Shakespeare's comedies, romances, histories, and tragedies. Prerequisite: WR115 or designated placement score.

ENG204 (4 credits)
Survey of English Literature I
Provides a historical survey of important works from the literature of the British Isles, from the roots of Old English in the fifth century through the Early Modern period. The course is designed to foster thoughtful interpretation, analysis, and appreciation of literature. Prerequisite: WR115 or designated placement score.

ENG205 (4 credits)
Survey of English Literature II
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.

ENG206 (4 credits)
Survey of English Literature III
Provides a historical survey of important works from the literature of the British Isles and nations it colonized from the Victorian period through the twentieth century. The course is designed to foster thoughtful interpretation, analysis, and appreciation of literature. Prerequisite: WR115 or designated placement score.

ENG253 (4 credits)
Survey of American Literature: Colonial
Provides a survey of literary works from the Colonial, Enlightenment, and Romantic periods, and includes such diverse forms as essays, journals, sermons, political documents, poetry and fiction. Prerequisite: WR115 or designated placement score.

ENG254 (4 credits)
Survey of American Literature: 19th Century
Provides a survey of American literature between the 1830s and the turn of the century, and includes such diverse forms as essays, journals, sermons, political documents, poetry and fiction. In many of the works, historical events such as slavery and the Civil War provide both background and subject matter for the artistic productions of the authors studied. Prerequisite: WR115 or designated placement score.

ENG255 (4 credits)
Survey of American Literature: 20th Century
Provides a survey of American literature between the early 1900s to the present. In many of the works, historical events such as World War I, the Great Depression, and World War II provide both background and subject matter for the artistic productions of the authors studied. Prerequisite: WR115 or designated placement score.

ENG257 (4 credits)
African American Literature
Introduces literature of Americans whose roots are in Africa. Emphasizes the period of post-Civil War through the Harlem Renaissance. Covers the birth of the African American canon, post-war novels, short stories, poems, autobiographies, and plays. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement score.

ENG260 (4 credits)
Introduction to Women Writers
Introduces literature by women and women-identified men. Emphasizes the Middle Ages period through the present. Covers "birth" of women's literary canon, treatises, short stories, autobiographies, novels, poems and plays. Literary magazines may be read to introduce early feminist and womanist literary criticism. Focuses on oral and written texts representing interests, aspirations, and experiences of women. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement score.

ENG275 (4 credits)
The Bible as Literature
Studies the composition, stories, and themes of the Bible in order to deepen understanding of its meaning and influence. Prerequisite: WR115 or designated placement score.

ENG280 (variable credits)
CWE/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. Prerequisites: Cooperative education is open to all students who have completed at least one-half of the required classes for their program of study, and have the recommendation of the department cooperative education advisor.

ENGR - 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
Examines communication and problem-solving skills in engineering. Prerequisite: ENGR102.

ENGR201 (2 credits)
Electrical Fundamentals
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. Co-requisite: ENGR201L.

ENGR201L
Electrical Fundamentals Lab
Lab associated with ENGR201.

ENGR202 (3 credits)
Electrical Fundamentals II
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. Co-requisite: ENGR202L.

ENGR202L
Electrical Fundamentals II Lab
Lab associated with ENGR202.

ENGR211 (3 credits)
Statics
Analyzes forces induced in structures and machines by various types of loading. Prerequisites: PH211 and PH211L.

ENGR212 (3 credits)
Dynamics
Explores kinematics, Newton's laws of motion, work-energy theorem, and impulse-momentum relationships as applied to engineering systems. Prerequisite: ENGR211.

ENGR213 (3 credits)
Strength of Materials
Presents the concepts of introductory mechanics of materials. Topics addressed are the concept of stress, axial stress and strain, torsion, pure bending, transverse loading, transformations of stress and strain, design of beams and shafts for strength, deflection of beams, and columns. Prerequisite:

ENGR211

ENV - 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, and explores 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 RD90 and WR90, or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

ES - EMERGENCY SERVICES

Career and Technical Courses

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 (5 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. Prerequisites: This is a limited-entry course and requires completion of an application process prior to admission. Prior to acceptance, students will be required to complete all screening requirements outlined in OAR 409-030-0190 and additional RCC requirements (AHA BLS certification, RCC placement process). Co-requisite: ES131L.

ES131L (1 credit)
Emergency Medical Technician - Part I Lab
ES131L 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). Prerequisites: This is a limited-entry course and requires completion of an application process prior to admission. Prior to acceptance, students will be required to complete all screening requirements outlined in OAR 409-030-0190 and additional RCC requirements (AHA BLS certification, RCC placement process).

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 with a grade of C or better. Co-requisite ES132L.

ES132L (2 credits)
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). Prerequisites: Successful completion of ES131 and ES131L with a grade of C or better.

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. This course meets the requirements for Emergency Response and Transportation as outlined in the statewide Oregon Paramedicine degree. Prerequisite: Valid Oregon driver's license

ES199 (variable credits)
Emergency Services: Selected Topics
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: Some level of emergency training or background is suggested (i.e. Emergency Medical Responder, EMT, Firefighter, etc.)

ES205 (3 credits)
Crisis Intervention and Management for Emergency Services Workers
Focuses on the practical application of psychology in everyday situations including crises encountered in a variety of settings related to public safety workers. Presents materials on the communication and interaction with people in various crisis situations, death and death notification, suicide, behavioral emergencies, abuse, and stress. A great deal of time is spent on strategies for the personal health and wellness of the Emergency Services Worker. Techniques on the initial intervention, defusing and assessment, self-care, and referral in crisis are included. Prerequisites: BT113 or WR115 or designated placement scores and completion of ES131 and 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. Prerequisites: ES131 and ES131L.

ES280 (variable credits)
CWE: 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 FRP251 and FRP251L, and prior arrangements with faculty or the 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 scores.

FR - FRENCH

Lower Division Collegiate

FR101, 102, 103 (4 credits each)
First Year French I
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. Co-requisite: WR121.

FRP - FIRE SCIENCE

Career and Technical Courses

FRP199 (variable 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. Prerequisite: Some level of emergency training or background is suggested (i.e. Emergency Medical Responder, EMT, Firefighter, etc.)

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. Co-requisite: FRP251

FRP238 (3 credits)
Public Education, Relations, and Information
Educates the student to the concepts of public education, public relations and public information in the fire service. Introduces the student to developing honest, responsible and timely messages, using appropriate communication methods, media relations and marketing concepts.

FRP241 (3 credits)
Fire Prevention Inspections
Provides the student with knowledge and skills necessary to prepare for and perform effective fire prevention inspections in a variety of occupancies. Meets Department of Public Safety Standards and Training #41-02 Fire Prevention Inspections.

FRP242 (3 credits)
Introduction to Codes and Ordinances
Studies codes used in the fire service that provide students with the knowledge needed to perform company level fire inspections and ensure buildings in AHJ coverage area meet fire and life safety standards for both new and old construction types.

FRP243 (3 credits)
Advanced Codes and Ordinances
Provides an in depth look at the authority of the fire code in the state of Oregon, both in Oregon Revised Statutes and Oregon Administrative Rules. Studies the interrelationship with the building code authority and other codes and standards related to the application and enforcement of the fire code in Oregon. Prerequisite: FRP242.

FRP249 (3 credits)
Fire Service Leadership
Examines and develops leadership and supervisory skills for mid-level supervisors in the fire service. Prerequisites: FRP251 and FRP251L.

FRP251 (3 credits)
Firefighter Level I
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.

FRP251L (5 credits)
Firefighter Level I Lab
Lab associated with FRP251.

FRP252 (3 credits)
Firefighter Level II
Covers firefighting skills required to perform proficiently on the fire scene. Meets National Fire Protection Association 1001 Standards for Firefighter II. Prerequisites: FRP251 and FRP251L.

FRP256 (3 credits)
Fire Behavior and Combustion
Assists students in gaining a solid understanding of the theories and fundamentals of how and why fires start and spread, as well as how they are controlled. Students will develop and enhance their knowledge of combustion reactions in solids, liquids, and gasses. Students will demonstrate an understanding of English and System International (SI) measurements, the physical and chemical properties of combustion, terminology associated with fire and combustion, and demonstrate an applied knowledge of fire suppression and fire dynamics. This course meets Department of Public Safety Standards and Training #25-08 and #43-02. Co-requisites: FRP251 and FRP251L.

FRP258 (3 credits)
Pumper Operator I
Covers hydraulic and fluid principles, friction loss, basic fire ground hydraulics, basic fire pump construction and operating principles. When combined with FRP259, meets Oregon Department of Public Safety Standards and Training and National Fire Protection Association #1002 Pumper Operator. Prerequisite: ES171.

FRP259 (3 credits)
Water Supply Operations
Covers foam equipment and operations, drafting, relay and tandem pumping, apparatus service testing, and advanced troubleshooting and maintenance. Combined with FRP258, meets Oregon Department of Public Safety Standards and Training and National Fire Protection Association #1002 Pumper Operator. Prerequisites: ES171, 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. Co-requisite: FRP251 and FRP251L.

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.

G - 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. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

G101 (4 credits)
Introduction to Geology I (Tectonics)
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 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

G101L
Introduction to Geology I Lab
Lab associated with G101.

G102 (4 credits)
Introduction to Geology II
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 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores. Recommended prerequisite: G101.

G102L
Introduction to Geology II Lab
Lab associated with G102.

G103 (4 credits)
Introduction to Geology III (Historical)
Covers the history of the evolution of the earth through the ages. Studies the formation of the universe, the solar system, and the beginning of the earth. Looks at the fossil record, glaciers, arid lands, the earth's resources, depositional environments, and the earth's history. Special emphasis is given to the geology of southern Oregon and various provinces of the Pacific Northwest when possible. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores. Recommended prerequisite(s): G101 and/or G102.

G103L
Introduction to Geology III Lab
Lab associated with G103.

GEOG - 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: WR115 or BT113 or designated placement scores.

GEOG110 (3 credits)
Introduction to Cultural/Human Geography
Surveys world patterns of culture, population, migration, language, religion, identity, and political systems. Examines the geographies of human development, including globalization, urban areas, agriculture, industry and services and includes a focus on environmental sustainability. Emphasizes connections through the five themes of human geography: Movement, Region, Human-Environment Interaction, Location, and Place. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores. Recommended prerequisite: WR115.

GEOG120 (3 credits)
World Regional Geography
Examines the eleven regions of the world and their interconnections. Perspectives from physical, political, historical, economic, and cultural geography are used to characterize the individual regions and the ways in which they are knit together into a spatial framework. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores. Recommended prerequisite: WR115.

GS - GENERAL SCIENCE

Lower Division Collegiate

GS104 (4 credits)
Physical Science (Physics)
First of the general science series and a prerequisite to many other science courses. Presents an integrated study of forces and motions in the physical world. Students must enroll in lecture and laboratory sections. Prerequisites: MTH60 and RD90 or WR91or designated placement score. Recommended prerequisite: MTH65.

GS104L
Physical Science: Physics Lab
Lab associated with G104.

GS106 (4 credits)
Physical Science: Earth Science
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.

GS106L
Physical Science: Earth Science Lab
Lab associated with G106.

GS107 (4 credits)
Physical Science: Astronomy
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. Prerequisites: GS104 or PH201 or PH211 or MTH111 or CHEM221.

GS107L
Physical Science: Astronomy Lab
Lab associated with G107.

GS108 (4 credits)
Physical Science: Oceanography
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 score.

GS108L
Physical Science: Oceanography Lab
Lab associated with G108.

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. Other prerequisites may apply depending on the specific offering.

GS170CV (4 credits)
Regional Field Geology: The Volcanoes of Southern Oregon
Field studies involve hiking, camping, traveling by car, and possible overnight stays. This course offers introductory field studies of specific Pacific Northwest regions. It 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 scores.

GS170MLV (4 credits)
Regional Field Geology: Medicine Lake Volcano
Field studies involve hiking, camping, traveling by car, and possible overnight stays. This course offers introductory field studies of specific Pacific Northwest regions. It 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 scores.

GS170MM (4 credits)
Regional Field Geology: Volcanic Evolution of Mt. Mazama
Field studies involve hiking, camping, traveling by car, and possible overnight stays. This course offers introductory field studies of specific Pacific Northwest regions. It 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 scores.

GS170NC (4 credits)
Regional Field Geology: Newberry Caldera
Field studies involve hiking, camping, traveling by car, and possible overnight stays. This course offers introductory field studies of specific Pacific Northwest regions. It 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 scores.

GS170OC (4 credits)
Regional Field Geology: Geology and Geomorphology of Southern Oregon Coast
Field studies involve hiking, camping, traveling by car, and possible overnight stays. This course offers introductory field studies of specific Pacific Northwest regions. It 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 scores.

GS170RUD (4 credits)
Regional Field Geology: The Rogue-Umpqua Divide
Field studies involve hiking, camping, traveling by car, and possible overnight stays. This course offers introductory field studies of specific Pacific Northwest regions. It 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 scores.

GS170L
Regional Field Studies Lab
Lab associated with GS170 course.

GS199 (variable credits)
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. Prerequisites: May vary depending on subject offerings.

GS280 (variable credits)
CWE/General Science
Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their programs. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Prerequisite: CWE courses require prior arrangements with faculty or the Department Chair.

HCI – HEALTH CARE

Career and Technical Courses

HC100 (6 credits)
Community Health Worker
Approved by the Oregon Health Authority, this course prepares students to be certified as community health workers in Oregon. Provides training in front-line public health care with an understanding and connection to the communities they serve. Also provides training in facilitating patient access to health and social services and to improve the quality and cultural competence of service delivery. Trains students to provide culturally appropriate health education and information, assist people in receiving the care they need, give informal counseling and guidance on health behaviors, advocate for individuals and community health needs, and provide some direct services such as first aid and blood pressure screening. Prerequisites: RD90 and WR90, or WR91 (WR91 substitutes for both RD90 and WR90), or designated placement 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. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores. Co-requisite: WR115 or designated placement score.

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. Prerequisites: CIS120 and WR115 or designated placement score.

HD - HUMAN DEVELOPMENT

Lower Division Collegiate

HD114 (2 credits)
Life Planning
The course is designed to provide students with a wide array of useful life planning and management tools. During the course, students try each of the tools to test their applicability and value in managing their own circumstances. As a final assignment, students select tools that are personally valuable and confirm their planned use beyond the course. Course is offered exclusively to TRiO SSS participants. Prerequisites: WR115 or BT113 or designated placement score.

HD215 (2 credits)
Transfer Success
Prepare students for transfer to a 4-year college or university. Course content focuses on developing strategies for choosing a program major and a transfer institution, identification of resources to assist in the transfer process, and information for obtaining financial aid and scholarships. Students will utilize the Career Information Systems (CIS) and navigate university websites to aid in the decision making progress. Course is offered exclusively to TRiO SSS participants. Prerequisites: CIS120 or BA131 or documented proficiency, and WR121 or BT114 or designated placement score.

HDFS - 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 types 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. Prerequisites: WR115 or BT113 or designated placement score. Co-requisite PSY202.

HE - 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 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 be covered to allow students to seek out accurate and reliable information about EXSS. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90). Recommended prerequisite: HPE295.

HE199 (variable credits)
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, or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement 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 or WR91 (WR91 substitutes for both RD90 and WR90), or designated placement scores.

HE250 (3 credits)
Personal Health
Examines personal and societal health topics including consumer health issues, major disease patterns, and the elements of good health, and relates them to daily life. Prerequisite: WR115 or designated placement score.

HE252 (3 credits)
First Aid/CPR
Offers a basic life support (BLS) plan for emergency care of cardiac victims until EMS arrives. Helps students recognize the signs and symptoms of a heart attack and cardiac arrest that pose a threat to life. Using techniques that emphasize the importance of compressions, airway management, and assisted breathing techniques (CABs), students are taught assessment skills that allow evaluation of one- and two-rescuer strategies on adults, children and infants (excluding newborns), airway obstruction relief, and how to appropriately use an Automated External Defibrillator (AED). The first aid, CPR, and AED section covers the critical skills needed to respond to and manage a first aid, choking or sudden cardiac arrest. Students learn how to treat bleeding, sprains, broken bones, shock, and other first aid emergencies. Building on these skills is basic Community Emergency Response Team (CERT) training. It provides the skills necessary to respond to a community's immediate needs in the aftermath of a disaster when emergency services are not immediately available. Successful completion of the course leads to two certifications from the American Heart Association: American Heart Association's Emergency First Aid Heartsaver® card and an American Heart Association Basic Life Support Provider card, both valid for two years. Prerequisite: WR90 or WR91 or designated placement 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 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores, and physical abilities to allow hiking and lifting equipment. Previous 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 or WR91 (WR91 substitutes for both RD90 and WR90). Recommended prerequisite: BI121.

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 credits)
CWE/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. Prerequisite: CWE courses require prior arrangements with faculty or the Department Chair.

HPE - HEALTH AND PHYSICAL EDUCATION

Lower Division Collegiate

HPE295 (3 credits)
Health and Fitness for Life

Prepares students with the foundation needed to be successful Health/PE majors and successful in other majors as well. Dominant topics include disease projections, essential nutrients, behavior modification, body composition, strength and endurance training, cardio-respiratory health, flexibility, the mechanics of stress and stress relief, and relationship building. Students assess: lifestyles, wellness, fitness, nutrition, and risk for illness / disease as part of the course. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90), or designated placement scores.

HS - 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. It is a required class for any human services degree or certificate and also a prerequisite to practicum placement. Prerequisite: Admission to the Human Services program

HS115 (1 credit)
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 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 for the student to develop stress management strategies.

HS155 (4 credits)
Interviewing Theory and Techniques

Provides theory and practice in basic counseling skills. Course is based on Carl Rogers' active listening approach. The course also helps students begin to think critically about their own counseling skills and to document the process in written format. Prerequisites: HS100 and HS170.

HS158 (3 credits)
Trauma-informed Care: Theory & 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 re-traumatization of survivors by social service systems. Students will explore the concept of trauma-informed care and be introduced to examples of trauma-informed systems. Prerequisites: WR115 or designated placement score, and PSY201. Recommended prerequisite: PSY202.

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 develop information and contacts for community agencies. Prerequisite: Acceptance to 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 utilized for additional practice and integration. Prerequisite: HS100 and acceptance to the Human Services program.

HS199 (variable credits)
Special Studies: Human Services

Presents special topics in human services including, but not limited to, adult children of trauma, drug and alcohol abuse among the elderly, client record management, and eating disorders. Prerequisite: Admission 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 program, and an elective for transfer students in human services. Prerequisites: HS155, PSY201 and PSY202.

HS202 (3 credits)
Counseling 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 SOC243 or CJ243.

HS204 (3 credits)
Counseling 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.

HS210 (3 credits)
Motivational Interviewing

Designed as the second in a two-course sequence (See HS155) designed to introduce students to intentional interviewing and as a foundation for developing basic counseling skills. Focus will be on developing more intensive counseling skills with significant opportunity for hands-on practice. Prerequisites: HS155 and HS202.

HS260 (3 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.

HS261A (1 credit), HS261B (2 credits) HS261C (3 credits), HS261D (4 credits) HS261E (5 credits), HS261F (6 credits) HS261G (7 credits)
Human Services Practicum and Seminar

Provides on-site clinical and community experience with human service organizations plus weekly seminars. Students are expected to arrange for a field placement with an approved agency prior to the start of class. Seminars are designed to provide supervision and help students integrate field, classroom experiences and interviewing skills. Prerequisites: HS155 and HS170.

HS265 (3 credits)
Counseling Theories

An introductory course covering the theoretical concepts and practical applications of counseling intervention strategies for the beginning helping professional. Specific topics: the helper as a person and as a professional including values, attitudes and ethics; an understanding of cultural issues that create barriers to helping; and the counseling intervention models of Psychoanalytical, Gestalt, Existential, Cognitive-behavioral and Family therapies. 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. The current course focuses on crisis situations, including assessment of function and lethality, appraisal of the individual, intervention strategies, case management, referral resources, ethical and professional issues, and specific situational stressors which may lead to a crisis state. Emphasis is on defusing the crisis situation, enhancing mobility and self-determination and ensuring the safety of the client and community. Suicide and other dangers to self and others are of particular concern, as well as the personal and social implications of involuntary hospitalization, civil commitment, and follow-up treatment, including delayed stress reactions and other consequences of crisis events. Prerequisites: HS155 and HS210.

HS268 (3 credits)
Co-Occurring Disorders: Introductory Theory and Counseling

Designed to provide entry level scope and depth of information relative to those human services helpers who are working with clients with a dual diagnosis, to specifically mean clients with both a mental health and an addictions diagnosis. Historical assessment and treatment processes as well as current, state of the art models and systems will be studied.

Relevant terminology from both the mental health and addictions arenas will be examined. Professional preparation, systems proficiencies and barriers will be evaluated. Primary field data for mental health and addictions will be surveyed for dual diagnosis context. Pharmacotherapy of the dual diagnosed client will be reviewed. Special assessment, diagnosis, and treatment issues will be examined, as well as family and community system variables. Specific dyads of mental health diagnoses with addictions diagnoses will be studied for case dynamics and special, individual considerations. Networking, team application, and multiagency collaboration will be studied. Lastly, participants will examine personal perspectives, beliefs, concerns, anxieties, and attitudes about mental health and addictions concepts and dual diagnosis clients. Prerequisites: HS155, HS202 and HS210.

HST - HISTORY

Lower Division Collegiate

HST104 (4 credits)
World Civilizations: Prehistory - Middle Ages

Provides a survey of various aspects of civilization in regions around the world. In addition to discussion of western civilizations originating from the Near East and Europe, this course includes the civilizations of India, Africa, East Asia (China/Japan) Russia, Southeast Asia, and Latin America. Included in the reading and discussion are historical, cultural, religious, social, economic, and political developments in the various civilizations. Covers pre-history to the Middle Ages. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisites: WR115 or BT113 or designated placement score.

HST105 (4 credits)
World Civilizations: Byzantium - Present

Provides a survey of various aspects of civilization in regions around the world. In addition to discussion of western civilizations originating from the Near East and Europe, this course includes the civilizations of India, Africa, East Asia (China/Japan) Russia, Southeast Asia, and Latin America. Included in the reading and discussion are historical, cultural, religious, social, economic, and political developments in the various civilizations. Covers the Byzantium to the present. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisites: WR115 or BT113 or designated placement score.

HST199 (variable credits)
Special Studies: History

Presents special topics of study in history through workshop, seminar, and independent study formats. Prerequisites: May vary depending on subject offerings.

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. Prerequisites: WR115 or BT113 or designated placement score.

HST202 (4 credits)
U.S. History: Post Reconstruction to 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. Prerequisites: WR115 or BT113 or designated placement 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. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Dual numbered as SOC235. Prerequisites:BT113 or WR115 or designated placement score.

HST280 (variable credits)
CWE/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. Prerequisite: CWE courses require prior arrangements with faculty or the Department Chair.

HUM - HUMANITIES

Lower Division Collegiate

HUM101 (4 credits)
Introduction to Humanities

Provides a survey of important achievements in a variety of disciplines as they emerged during the classical periods and the medieval era, in Europe and beyond: visual arts, architecture, literature, philosophy, religions, music, theater and criticism. This course covers the period from the first civilizations to the Middle Ages and is designed to help students trace the origin of the nature of human thought and creativity as they emerged and manifested themselves in the pre-industrial era. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement score.

HUM102 (4 credits)
Introduction to Humanities II

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. Covers the period from the Proto-Renaissance to the Age of Reason and is designed to help students trace the origin of the nature of human thought and creativity as they emerged and manifested themselves in the pre-industrial era. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement score.

HUM103 (4 credits)
Introduction to Humanities III

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. Covers the period from Romanticism to the present, and is designed to help students trace the nature of human thought and creativity, prepare them for further study and appreciation of the arts, and encourage them to look to the humanities for insights necessary to themselves and society. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement score.

HUM199 (variable credits)
Special Studies: Humanities

The course is offered in a number of formats: workshop, seminar, or independent study. Prerequisite: WR115 or designated placement score.

HUM215 (4 credits)
Native American Arts/Cultures (Eskimo/Inuit)

Studies the art and culture of the Eskimo/Inuit of the Arctic area from the past to the present. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement score.

HUM216 (4 credits)
Native American Arts/Cultures (Peoples of Northwest Coast)

Studies the art and culture of the native peoples of the Northwest Coast from the past to the present. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement score.

HUM217 (4 credits)
Native American Arts/Cultures (Nations of the Plains)

Studies the art and culture of the native peoples of the Great Plains from the past to the present. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement score.

HUM218 (4 credits)
Native American Arts/Cultures (Peoples of the Southwest)

Studies the art and culture of the native peoples of the Southwest from the past to the present. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement score.

HUM219 (4 credits)
Native American Arts Cultures (Peoples of Mexico)

Studies the art and culture of the peoples of pre-Columbian Mexico from the past to the present. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisite: WR115 or designated placement score.

HUM280 (variable credits)
CWE/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. Prerequisites: Cooperative education is open to all students who have completed at least one-half of the required classes for their program of study, and have the recommendation of the department cooperative education advisor.

IS - INTERNATIONAL STUDIES

Lower Division Collegiate

IS110 (4 credits)
Introduction to International Studies I
Explores various cultures of the world with an emphasis on definition of culture, values, cross-cultural communication, and ethnocentrism. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisites: WR115 or BT113, or designated placement score.

LIB - 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 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 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

LIB199 (variable credits)
Special Studies: Library
Offers content focused on information literacy, library science, or other areas related to library instruction. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

MA - MEDICAL ASSISTANT

Career and Technical Course

MA150 (1 credit)
Medical Assistant Pre-Practicum and Seminar
Provides an extensive overview of office responsibilities and work ethics, and prepares students for the challenges of their multiple roles in the medical office. These include guest, intern, student-worker, administrative assistant, medical assistant and housekeeping worker. Students will review and discuss the expectations and protocols for their upcoming practicum classes. Course will meet for two-hour sessions, five times during term. Cohort prerequisites: This a limited entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry.

MAA - MEDICAL ADMINISTRATIVE ASSISTANT

Career and Technical Course

MAA150 (1 credit)
Medical Administrative Assistant Pre-Practicum and Seminar
Provides an extensive overview of office responsibilities, work ethics and prepares students for the challenges of their multiple roles in the healthcare industry. These include guest, intern, student-worker, and administrative assistant. Students will review and discuss the expectations and protocols for their upcoming practicum classes. Course will meet for two hour sessions, five times during term. Cohort prerequisite: This a limited-entry program that requires completion of 13-19 credits of prerequisite/preparatory courses and formal acceptance prior to entry.

MEC - MECHATRONICS

Career and Technical Courses

MEC102 (3 credits)
Mechanical Fabrication
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: CIS120 or documented proficiency, MTH20, RD90 or WR91 or designated placement 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 regulations for general workplace safety, personal protective equipment, tools, and machines. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

MEC110 (3 credits)
AC/DC Electrical Systems for Manufacturing
Introduces the fundamentals of AC/DC electrical systems used for power and control in the manufacturing industry as well as commercial, agricultural and residential applications. Students learn industry-relevant skills included in subject areas such as basic electrical circuits, electrical measurement, circuit analysis, inductance and capacitance, combination circuits, and transformers. Topics covered in subject areas will include but not be limited to: safety, electrical components and wiring, electronic test instruments, tools and fasteners, electrical units and nomenclature, and parallel / series-parallel circuits. Dual listed as MFG210. Prerequisites: MTH60 or MTH63 or higher level math. Recommended prerequisite: EET104.

MEC114 (3 credits)
Safety for Industry
Covers general shop safety for manufacturing environments and the awareness of hazards. Safety topics covered include SDS sheets, personal protective equipment, lockout tagout procedures, and material handling, among others. Prerequisites: MTH20 and WR90 or WR91 or designated placement scores.

MEC115 (3 credits)
Electrical Control Systems and Sensors for Manufacturing
Introduces the functions of relay logic control circuits used in industrial, commercial and residential applications. Describes functions and application of functions covered in control logic including logic elements such as AND, OR, NOT, NOR, and NAND. Ladder diagrams are explained and learners connect, operate, and design a ladder diagram using one or more logic elements. Additional concepts include electro-pneumatic solenoid valves; sequencing control including relay operation, relay application, limit switch operation and application; and timers and advanced systems including time-delay relays, multiple cylinder control, and machine modes of operation. Course teaches the operation of non-contact sensors and their applications in industry, such as sensing movement, detecting metal versus non-metal, and determining speed. Covers sensors such as inductive, capacitive, magnetic reed, hall-effect and photoelectric. Dual numbered with MFG215. Prerequisites: MTH60 or MTH63 or designated placement score, or higher level math. Recommended prerequisite: EET101.

MEC116 (3 credits)
Quality Practices and Measurement
Examines the employee's role in producing a quality product including the benefits of quality and the costs of quality, and problem solving tools for continuous improvement. Prerequisites: MTH20, and WR90 or WR91 or designated placement scores, and MEC110.

MEC118 (3 credits)
Manufacturing Processes and Production
Investigates how to improve quality, eliminate waste, reduce lead-time and inventory, develop productive customer and supplier relationships, cycle time, Kanban, demand-pull, and order push techniques to reduce inventory in the supply chain. Prerequisites: MTH20, and WR90 or WR91 or designated placement scores, and MEC110, MEC116.

MEC120 (4 credits)
Maintenance Awareness
Covers basic mechanical skills needed by a technician, including the use and care of hand tools and small power tools, drilling, tapping, removal of broken bolts, studs, and helicoil insertion. Basic measuring tools and techniques are covered, as well as type and use of fasteners, lubricants and adhesives used in repair, and assembly. Prerequisites: MTH20, WR90 or WR91 or designated placement scores and MEC110, MEC116, MEC118.

MEC124 (3 credits)
Hoisting and Rigging I
Teaches how to safely move loads of different shapes and sizes using a variety of methods. Rigging skills are required in many industries including manufacturing, construction, and transportation. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90), and MTH63 or designated placement scores, and MEC102.

MEC125 (3 credits)
Pneumatics I
Prepares learners to work intelligently in industry with pneumatic applications. 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. 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. Prerequisites: CIS120 or documented proficiency, MTH63 or designated placement score, RD90

and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores, and MEC102. Recommended prerequisite: MFG116.

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: CIS120 or documented proficiency, MEC102, MTH63 or higher level math, RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90). Recommended prerequisite: MFG116.

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. Prerequisites: CIS120 or documented proficiency, MEC102, MTH63 or designated placement score, RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90). Recommended prerequisite: MFG116.

MEC140 (2 credits)
Green Production

Covers the basic mechanical skills needed by a technician, including use and care of hand tools and small power tools, drilling, tapping, removal of broken bolts, studs, and helicoil insertion. Basic measuring tools and techniques are covered, as well as type and use of fasteners, lubricants and adhesives used in repair, and assembly. Prerequisites: MTH20 and WR90 or WR91 or designated placement scores, and MEC110, MEC116, MEC118, MEC120.

MEC149 (4 credits)
Electrical Motor Control

Introduces the fundamentals of electric relay control of AC electric motors found in industrial and commercial manufacturing applications. Students will gain an understanding of the operation, installation, design, and control of AC electric motor control circuits, transformers, ladder logic controls, and control relays for many common applications. Students will also develop skills in interpreting schematics, system design, motor start/stop circuits, and motor sequence control. In addition, students will be introduced to systems troubleshooting, reversing motor controls, automatic input devices and basic timer controls. Students will continue to develop skills in interpreting schematics, system design, motor start/stop circuits, and motor sequence control. Safety is emphasized throughout, highlighting motor safety, lockout/ tagout and safety interlocks. Prerequisites: MTH60 or MTH63 or designated placement score or higher level math. Recommended prerequisite: MEC110 or MFG210.

MEC150 (3 credits)
PLC Motor Control

Covers programmable logic controllers (PLCs) in programming and control of AC electric motors found in industrial, commercial, and residential applications. Hands-on training using the Amatrol Motor Control System 85-MT5 allows learners to gain understanding of the operation, installation, design, and troubleshooting of AC electric motor control circuits and many common applications. Students develop skills in interpreting schematics, ladder logic diagrams, system design, motor start/stop circuits, motor sequence control, reversing motor control and motor jogging. Safety is emphasized throughout, highlighting motor safety, lockout/tagout and safety interlocks. Prerequisites: EET104 and MEC110.

MEC151 (3 credits)
Programming PLCs I

Programming PLC's I is the first of a two course series in which students learn PLC (Programmable Logic Controller) programming, operation, and applications used in industry. Covers a wide variety of program commands, ranging from timers and contacts, stepper motor control, and PWM control that will quickly develop relevant and critical skills to be job ready in modern industry environments. Prerequisite: MEC150.

MEC154 (3 credits)
Computer Control

Begins by introducing programmable controller (PLC) topics including PLC orientation, operation, and programming languages, and then moves on to more advanced topics such as basic PLC programming, PLC motor control, and event sequencing. Specifically, learners will study topics including: the function of seven types of processor files; how input instructions can be controlled by output instructions; and the operation of a basic multiple actuator sequence program. Prerequisites: MEC110. Recommended prerequisite: MEC149.

MEC199 (variable credits)
Mechatronics Special Topics

Provides study for students in technical programs to areas linked to industry. State-of-the-art equipment is used for industry standard-level instruction. Prerequisites: MTH20, RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement score.

MEC210 (2 credits)
Variable Frequency AC Drives

Teaches variable frequency AC solid-state control of 3-phase electric motors. Learners develop knowledge in the operation, installation, performance analysis, troubleshooting, and design of AC solid state control using 2-wire, 3-wire, manual, and open-loop speed control. Highlights motor jogging and dynamic braking as well as programmable acceleration and deceleration. Prerequisite: MEC149.

MEC226 (2 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. Prerequisite: MEC125.

MEC227 (2 credits)
Pneumatics III

Along with advanced pneumatic principles students will also learn about pneumatic cylinder loads, cylinder applications, quick exhaust valves, motor loads, air bearings, component sizing, air compressor types, air compressor operation, flow measurement, compressor performance, and pneumatic component maintenance. Prerequisite: MEC226.

MEC228 (3 credits)
Pneumatic 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. 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.

MEC232 (2 credits)
Hydraulics III

Adds to the basic and intermediate hydraulic skills teaching advanced applications. Students will learn industry-relevant skills related to these new topics including operation, installation, performance analysis, maintenance, and design. These topics include heat exchangers, reservoirs, fluid conductors, fluid conditioning, filtration, motor performance, pump performance, system design, and maintenance. Prerequisite: MEC231.

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 antifriction bearings by describing the two types and teaching the fundamental skills of how to identify, mechanically install, thermally install and troubleshoot those bearings. Also covered is gasket and seals such as O-ring seal, lip seal and mechanical seal, and advanced gear drives such as helical gear drives, right angle gear drives, speed reducers, and gear drive selection and maintenance. 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: CIS120, and MTH60 or MTH63 or designated placement score higher level math and WR90 or WR91 or designated placement score.

MEC251 (3 credits)
Programming PLCs II
Programming PLC's II is the second of a two-course series in which students learn PLC (Programmable Logic Controller) programming, operation, and applications used in industry. This course continues with programming commands, ranging from timers and contacts, stepper motor control, and PWM control that will quickly develop relevant and critical skills to be job ready in modern industry environments. Students will also be introduced to application circuits and components for thermostatic temperature control, analog temperature control, reversing constant-speed motor control, variable speed motor control with feedback, and stepper motor homing and commissioning. These circuits include basic and advanced applications starting with discrete I/O projects and extending to projects involving analog I/O. These projects enhance a student's experience because they can actually see how a program controls real systems. Prerequisite: MEC150.

MEC254 (3 credits)
PLC Troubleshooting
Covers PLC (Programmable Logic Controller) programming, operation, and applications used in industry, as well as PLC troubleshooting skills, such as PLC input and output testing, software testing, and application troubleshooting. This course covers a wide variety of program commands, ranging from timers and contacts, stepper motor control, and PWM control that will quickly develop relevant and critical skills to be job ready in modern industry environments. Prerequisite: MEC251.

MEC260A (2 to 6 credits)
Mechatronics: Automation Operations
Covers basics such as automation operations and basic components and build, to more advanced topics like pick and place feeding, gauging, and indexing. In addition, learners will look at sequencing controls systems, discrete logic, operator safety and automated machine operations. Prerequisites: MEC228, MEC233, MEC238, MEC240, and MEC254.

MEC260B (2 to 6 credits)
Mechatronics: Basic Component Adjustments
Covers basics such as automation operations and basic components and build to more advanced topics like pick and place feeding, gauging, and indexing. Also: manually overriding an electro-pneumatic valve and a magnetic motor starter. Prerequisites: MEC228, MEC233, MEC238, MEC240, and MEC254.

MEC260C (2 to 6 credits)
Mechatronics: Pick and Place Feeding
Teaches interfacing, problem solving, programming, sequencing and operation for pneumatic robots, material feeding systems, powered parts feeders, vacuum grippers, hall-effect sensors, and magnetic sensors. This station starts the process of assembling a working industrial directional control valve. Prerequisites: MEC228, MEC233, MEC238, MEC240, and MEC254.

MEC260D (2 to 6 credits)
Mechatronics: Gauging
Teaches interfacing, problem solving, programming, sequencing and operation for go/ no-go gauging, analog sensor adjustment, non-servo electric traverse axis, synchronous belt drive, ball screw drives and part rejection/transfer. The learner performs a number of quality inspections in the process of assembling a working industrial directional control valve. Prerequisites: MEC228, MEC233, MEC238, MEC240, and MEC254.

MEC260E (2 to 6 credits)
Mechatronics: Indexing
Many high-speed machine processes use a rotary indexing machine to rotate the work pieces to various positions, where a different operation can be performed on each work piece and multiple work pieces can be processed at the same time. Prerequisites: MEC228, MEC233, MEC238, MEC240, and MEC254.

MEC260F (2 to 6 credits)
Mechatronics: Sorting and Queuing
The Sorting-Queuing training station teaches interfacing, problem solving, programming, sequencing and operation for sorting, queuing, flat belt conveyors, photoelectric sensors, and inductive sensors. This station performs the role of sorting parts by material type in the process of assembling a working industrial control valve. Prerequisites: MEC228, MEC233, MEC238, MEC240, and MEC254.

MEC260G (2 to 6 credits)
Mechatronics: Servo Robotic Assembly
The Servo Robotic Assembly station trains students for pick and place assembly, and teaches interfacing, problem solving, programming, sequencing and operation for servo robotics, gravity feeders, pneumatic screw feeders, and part insertion. This station performs the role of assembling a working industrial directional control valve using a combination of servo robotic and pick and place technologies. Prerequisites: MEC228, MEC233, MEC238, MEC240, and MEC254.

MEC260H (2 to 6 credits)
Mechatronics: Torqueing
Mechatronics-Torqueing teaches interfacing, problem solving, programming, sequencing and operation for an automated torque assembly system, electric traverse slide, DC motor torque, variable speed motors and clutches. Covers assuring that the assembly components are properly tightened in the process of assembling a working industrial directional control valve. Prerequisites: MEC228, MEC233, MEC238, MEC240, and MEC254.

MEC260I (2 to 6 credits)
Mechatronics: Parts Storage
This Mechatronics Learning System allows learners to gain valuable skills used in inventory storage processes by studying operation, adjustment, and programming of an inventory storage system. This learning system will allow learners to practice and study operating a programmable parts storage station, adjusting a phototransistor optical interrupter switch, and designing a PLC program that provides manual/auto/reset functions for a programmable parts storage station. Prerequisites: MEC228, MEC233, MEC238, MEC240, and MEC254.

MEC260J (2 to 6 credits)
Mechatronics: Electro-Hydraulic Testing
Mechatronics Electro-Hydraulic Training allows learners to gain valuable product testing skills used in automated processes by studying topics like station operation and adjustment, module sequencing, and station sequencing. This learning system will allow learners to practice and study how products are tested on an automated line, how these skills are integrated within a larger automated process, and an example of how hydraulics are utilized on an automated line. Prerequisites: MEC228, MEC233, MEC238, MEC240, and MEC254.

MEC260K (2 to 6 credits)
Mechatronics: Multiple Station Control
This course will cover automation operations and basic components, and build to more advanced topics like pick and place feeding, gauging, and indexing. Also: Discrete I/O Handshake, system startup/halt and system stop/reset. Prerequisites: MEC228, MEC233, MEC238, MEC240, and MEC254.

MET - 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 or WR91, or designated placement score.

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 WR91 or designated placement scores.

MET105 (3 credits)
Blueprint Reading: Mechanical
Introduces blueprints using multi-view projection, sectional views, auxiliary views, title blocks, and drawing formats, which are the basis for all graphical communication in the manufacturing industry today. Knowledge of the techniques used on blueprints is necessary in the industry whenever descriptions of size, shape, and arrangement are used to produce, service, or sell a product. This course also introduces students to blueprint and drawing techniques which will be built upon with additional modules in the program. Dual numbered as WLD104. Prerequisites: MTH20 and RD90 or WR91. Recommended prerequisite: MTH63.

MET111 (3 credits)
CAD 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. Prerequisites: CIS120 or documented proficiency. Recommended co-requisites: MET101 and MET105.

MET112 (3 credits)
CAD 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. Recommended co-requisites: MET101 and MET105.

MET113 (3 credits)
CAD III: Mechanical Autodesk Inventor)
Covers advanced techniques used in creating and modifying parametric, assembly-centric 3D models with Inventor. Exercises in this course develop extensive knowledge in the areas of part and assembly modeling, adaptive features, utilizing work groups, surfacing, managing data and the Engineer's Notebook. Exercises will include but are not limited to advanced commands and surfaces, advanced work planes, and advanced stress analysis (FEA). Working in both two- and three-dimensions as well as in solids, students will learn

advanced multiple drawing and modification commands, create advanced three-dimensional solid models and assemblies, and apply industry standards in the preparation of technical mechanical drawings. Prerequisites: MET111 and MET112.

MET121 (3 credits)
CAD I: Mechanical (Introduction to SolidWorks)

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: CIS120 or documented proficiency. Recommended co-requisites: MET101 and MET105.

MET122 (3 credits)
CAD II: Mechanical (SolidWorks)

Second in a three-term series, this course continues with the basic concepts of computer aided design (CAD) and drafting. Course studies will be completed using SolidWorks CAD software. Studies include set-up workspace, sketches, features and drawings. Working in both two- and three dimensions as well as in solids, students will learn the operating system, command codes, file menu, and symbol library of an industry standard, computer aided design and drafting system. Focus will be on sheet metal, weldments, and gears and gear-mates as used in manufacturing. Students have the opportunity to take SolidWorks CSWA (Certified SolidWorks Associate) exam at end of this term. Prerequisite: MET121.

MET123 (3 credits)
CAD III: Mechanical (SolidWorks)

As the third course in a three-term series, this is an elective in the Manufacturing Engineering Technology program. Students will use the techniques learned in MET121 and MET122 to reverse engineer an advanced part/project, creating solid models and modifying those models as needed; and the creation of assemblies, and industry standard mechanical drawings. Coursework will focus on continuing to develop techniques in preparing industry standard accurate, legible drawings and solid models. Students will have the opportunity to take the SolidWorks CSWA (Certified SolidWorks Associate) exam at the end of the term. Prerequisite: MET122.

MET160 (3 credits)
Materials and Metallurgy

Studies basic metallurgy as it relates to manufacturing processes. Course introduces the identification of ferrous metals and non-ferrous metals, as well as other materials used in the manufacturing industry. Study includes mechanical and physical properties, powder metallurgy, heat treatment, alloying, crystalline structures, effects of machining, casting processes, and testing processes. Prerequisites: MTH20 and RD90 or WR91 or designated placement scores. Recommended prerequisite: MFG101.

MET165 (3 credits)
Materials Engineering and Metallurgy

Introduces students to the characteristics of materials that are important in design, and the role of quality control in working with materials. Topics include: material quality control, tensile strength analysis, data acquisition systems, materials design, compression testing and analysis, shear and hardness testing and analysis, and design evaluation. Course also covers the principles of non-ferrous and ferrous metals, and introduces the properties, elements, and types of nonferrous and ferrous materials commonly employed in metal manufacturing. Lessons cover the basics of the non-ferrous and ferrous material manufacturing process, the elements used to create these materials, the main types of non-ferrous and ferrous materials and their properties, and the common tests used to measure metal properties. Prerequisites: CIS120 or documented proficiency, and MTH20 and RD90 or WR91, or designated placement test scores.

MFG - MANUFACTURING

Career and Technical Courses

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 WR91or designated placement scores.

MFG116 (2 credits)
Metrology

Covers basic measurement, precision measurement, direct gauging, indirect gauging, and dimensional measurements using both the U.S. customary system and the SI metric system. Course content covers the study of quality assurance through measurements taken by mechanical, electronic and optical methods as related to industrial dimensional conformance requirements. Prerequisites: CIS120 or equivalent, and RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90), or designated placement scores.

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. Prerequisite: MFG116. Co-requisite: MTH63.

MFG122 (4 credits)
Manufacturing Processes

As the second in a three-term series, this course is designed to continue the development of both an understanding of manufacturing concerns and limitations of industry and the hands-on skills needed for machining jobs in manufacturing. Course continues and expands basic manufacturing skills and machine tooling practices. Emphasis on safety, bench work, engine lathes, vertical and horizontal mills, precision grinding, tool room operations, and production work through a series of projects. Prerequisite: MFG121.

MFG123 (4 credits)
Manufacturing Processes

As the third in a three-term series designed to continue the development of both an understanding of manufacturing concerns and limitations of industry, as well as developing hands-on skills needed for machining jobs in manufacturing, this course continues and expands basic manufacturing skills and machine tooling practices. This class re-emphasizes safety, bench work, lathe work, vertical mill operations, precision grinding, tool room operations, and production work through completion of a project in a prototype production run using the multiple manufacturing processes. Students will work to build, document, and evaluate all phases of a prototype production run. Prerequisite: MFG122.

MFG140 (2 credits)
CNC Controls

Designed to develop an understanding of the Haas VF-1 CNC Control. Basic functions and operating modes of the Haas control are covered. Prerequisites: MTH20, and RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores. Recommended prerequisites: MTH63 or MTH60, and MFG121.

MFG199 (variable credits)
Special Studies in Manufacturing

Provides specialized study for students in technical programs to areas linked to industry. State-of-the-art equipment is used for industry standard-level instruction. Prerequisites: MTH20 and RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

MFG210 (3 credits)
AC/DC Electrical Systems for Manufacturing

Introduces the fundamentals of AC/DC electrical systems used for power and control in the manufacturing industry as well as commercial, agricultural and residential applications. Students learn industry-relevant skills included in subject areas such as basic electrical circuits, electrical measurement, circuit analysis, inductance and capacitance, combination circuits, and transformers. Topics covered in subject areas will include but not be limited to: safety, electrical components and wiring, electronic test instruments, tools and fasteners, electrical units and nomenclature, and parallel/series-parallel circuits. Dual numbered as MEC110. Prerequisites: MTH60 or MTH63 or designated placement score. Recommended prerequisite: EET101.

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 or MTH63 or designated placement score. Recommended prerequisite: EET101.

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. Course teaches the operation of non-contact sensors and their applications in industry, such as sensing movement, detecting metal versus non-metal, and determining speed. The course covers sensors including inductive, capacitive, magnetic reed, hall-effect and photoelectric. Dual numbered as MEC115.

Prerequisites: MTH60 or MTH63 or designated placement score. Recommended prerequisite: EET101.

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 the program. Co-requisite: WR121 or designated placement score.

MFG230 (3 credits)
Statistics and Quality Control
Introduces ISO 9000 concepts of basic gauging, inspection, elementary statistics, and statistical process control (SPC). Prerequisites: MET104 or MTH112 or higher level math.

MFG241 (4 credits)
CNC Programming--Mill
Covering basic Computer Numerical Control (CNC) programming of the Haas vertical mill as well as machine setup and operation, this course emphasizes manual data input programming and manual program editing. Provides training in the operation and part programming of the modern vertical machining center. Students learn safe manufacturing methods by completing a series of assignments using one of two Haas vertical machining centers. Students will gain experience reading, writing and editing part programs using industry standard G & M code programming. Prerequisites: MTH63 or MTH60 or designated placement score, and MFG121, MFG140.

MFG242 (4 credits)
CAM I: Mastercam
Introducing Mastercam CAD/CAM software to students, with training to design parts and toolpaths for a modern CNC vertical machining center, this course has a primary focus on Haas machines. Covering the creation of two and three dimensional wire frame geometry, relevant to PC based CAD/CAM work, the course includes topics such as hardware familiarity, system operation, folders, file types and structure, Mastercam menu structure and system management. Emphasis is on proper geometry creation, manipulation and management of toolpaths, relevant utilities and C-hooks, terminology, and toolbar and menu functions. Safety and efficient machining will be stressed throughout the course. Prerequisite: MFG241.

MFG243 (4 credits)
CAM II: Mastercam
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.

MFG255 (4 credits)
Computer Integrated Manufacturing
A capstone project course that emphasizing the design-build process as it applies to the production, documentation, and implementation of a prototype production run using multiple manufacturing processes. Students work to design, manufacture, document, and evaluate all phases of a prototype production run for a part of their own design and creation. Prerequisite: MFG220.

MFG262 (3 credits)
Lean Manufacturing
Developing an understanding of, including the limitations of, lean manufacturing as it applies to the manufacturing industry and business, this course covers the basics of lean; TAKT time; value stream mapping; current and future state; KanBan systems; tracking and removing production wastes; running effective meetings; and team building. Prerequisites: MFG230 and MET104 or MTH112 or higher level math.

MFG280 (variable credit)
CWE/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: CWE courses require prior arrangements with faculty or the Department Chair.

MFG291 (2 credits)
Laser Cutting and Engraving Fundamentals
Teaches students how to safely set up and operate a Trotec laser engraving machine using CorelDraw software as the print driver. A strong emphasis is place on the proper selection of materials that can be safely cut or engraved. Along with required curriculum, the course also includes time for student project work. Course is recommended for anyone interested in laser cutting and engraving for industry applications or artwork. Prerequisites: CIS120 or documented proficiency and MTH63 or designated placement score.

MT - 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 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores; Co-requisite BI121 or BI231.

MT100L
Massage I - Basic Swedish Lab
Lab associated with MT100.

MT101 (2 credits)
Asian Bodywork I
Introduces fundamental methods and the philosophical background of Asian Bodywork: Acupressure and Shiatsu.

MT101L
Asian Bodywork I Lab
Lab associated with MT101.

MT102 (2 credits)
Massage II--Swedish
Emphasizes assessment, the philosophical and psychological aspects of massage, and working with special populations. Prerequisites: BI121 or BI231 and MT100.

MT102L
Massage II - Swedish Esalen Lab
Lab associated with MT102.

MT103 (2 credits)
Massage III--Swedish
Prepares students for both the written and practicum examinations for state board licensure. Reflexology, side lying massage, trigger point, deep tissue, and myofascial release techniques will be covered. Prerequisites: BI121 or BI231 and MT102.

MT103L
Massage III - Swedish
Lab associated with MT103.

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, MT100 and MT108.

MT106L
Integrated Studies in Massage I - Upper Body Lab
Lab associated with MT106.

MT107 (2 credits)
Integrated Studies in Massage II (Lower Body)
Continues the study of applications of massage on specific muscle groups, integrating musculoskeletal anatomy, pathology, acupressure, and basic Swedish massage techniques. Prerequisite: MT106.

MT107L
Integrated Studies in Massage II - Lower Body
Lab associated with MT107.

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. Prerequisites: RD90 or WR91 or documented proficiency. Co-requisite BI121 or BI231.

MT108L
Kinesiology for Massage Therapists
Lab associated with MT108.

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 scores. Co-requisite: BI122 or BI232 and BI233.

MT111 (2 credits)
Sports 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.

MT111L
Sport Massage
Lab associated with MT111.

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.

MT112L
Massage for Pregnancy and the Infant/ Child Lab
Lab associated with MT112.

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.

MT113L
Myofascial Release Lab
Lab associated with MT113.

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.

MT115L
Trigger Point Therapy Lab
Lab associated with MT115.

MT116 (2 credits)
Massage Exam Review
Prepares students for the Oregon State Board of Massage exams required for licensing by reviewing the entire year of study. Course is designed for students who have completed the required coursework and will be taking exams to become licensed by the Oregon Board of Massage Therapists.

MT117 (2 credits)
Body Maintenance for Massage Therapists
Provides knowledge and hands-on techniques to show how to recognize, prevent, and treat injuries for bodywork professionals. Students will learn how and why injuries happen and receive information that will help protect their own health and better understand their clients' complaints.

MT117L
Body Maintenance for Massage Therapists Lab
Lab associated with MT117.

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.

MT118L
Deep Tissue Massage
Lab associated with MT118.

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.

MT119L
Introduction to Craniosacral Therapy
Lab associated with MT119.

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 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement 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. Prerequisites: WR90 or WR91 or designated placement score.

MT121 (2 credits)
Asian Bodywork II
Students will learn the fundamental methods and philosophical background of Ayurveda and Touch 4 Health. Introduces different styles and techniques of acupressure and energy balancing. Prerequisite: MT101.

MT121L
Asian Bodywork II Lab
Lab associated with MT121.

MT180 (3 credits)
CWE/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 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, it should be completed within the last two terms of a certificate or degree program.Prerequisite: CWE courses require prior arrangements with faculty or the Department Chair.

MT180S (1 credit)
CWE/Massage Seminar
Provides students with strategies for successful experiential learning, including techniques for self-monitoring and tracking progress; sustaining positive relationships with co-workers and supervisors; working with mentors; and basic conflict resolution. Presents information regarding the role played by non-verbal communication, written and unwritten workplace policies, and positive work ethics. Course includes practical instruction regarding the integration of reflective learning with experiential learning and the process of integrating relevant theory and/or outside learning resources with experiential learning. Students will be provided with basic strategies for career advancement, and the theory and practical application of techniques for writing a skills-based resume, effective employment application, and interview skills. Co-requisite:

MT180.

MT199 (variable credits)
Selected Topics in Massage
Provides knowledge and hands-on instruction in the theory and techniques of new massage topics that have evolved.

MTH - MATHEMATICS

Lower Division Collegiate (except where noted)

MTH15A (3 credits)
Math Fast Track
Offers students the chance to improve math placement more than one level in one term. Designed for students who need to take several math courses before entering a program, who have seen the material before and need to "fill in the gaps." Offered as an emporium style math class which meets six hours per week 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.) Class attendance is mandatory. Students work on online homework and take proctored online tests. Each student will be assigned a new math placement determined by in-person, proctored test score(s) at the end of the course. Course is graded on a pass/no pass basis. Course does not transfer. Prerequisites: Designated placement score into MTH20, MTH60 or MTH65, co-enrollment in RD90. 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. Co-requisites: RD90 or WR91 or designated placement score.

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 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 and RD90 or WR91 or designated placement scores. Co-requisite: 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 P/NP basis. Prerequisites: MTH20 and RD90 or WR91, or designated placement scores.

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 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 or designated placement score. Co-requisite 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 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. Prerequisites: MTH65 and RD90 or WR91 or designated placement scores.

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: MTH63 or MTH60 and RD90 or WR91 or designated placement score.

MTH105 (4 credits)
Introduction to Contemporary Math
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.

MTH111 (4 credits)
College Algebra
First course in the transfer mathematics sequence for science, mathematics, and engineering students, and for general education math credit. Topics include: polynomial and rational functions, exponential and logarithmic functions, systems of equations and conic sections. Prerequisites: MTH95 or designated placement score.

MTH111R (1 credit)
College Algebra Recitation
An optional course which can be taken concurrently with MTH111. For 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. Prerequisite: MTH95 or designated placement score. Co-requisite: MTH111.

MTH112 (4 credits)
Elementary Functions
Second course in the transfer mathematics sequence for science, mathematics, and engineering students, and for general education math credit. Course topics include: radian and degree measures of angles, right triangle and circle trigonometry, identities, graphing and solving trigonometric equations, law of sines and cosines, vectors and parametric equations. Prerequisite: MTH95 or designated placement score.

MTH112R (1 credit)
Elementary Functions Recitation
An optional course taken concurrently with MTH112. For students who want more help with the material of MTH112. Covers a review of MTH95 material, using the graphing calculator, and topics and concepts of particular difficulty presented in the Elementary Functions class. Course is graded on a pass/no pass basis. Prerequisite: Prerequisite: MTH95 or designated placement score. Co-requisite: MTH112

MTH199 (variable 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. Prerequisites: May vary depending upon course content offered.

MTH211 (5 credits)
Fundamentals of Elementary Math I
First in a three-term sequence designed to prepare preservice elementary and middle school teachers for entrance into the Oregon teacher's certification program. Course will study topics of problem solving, sets, whole number concepts and operations, elementary number theory, integers, and elementary logic. Course is graded A through F. Prerequisites: MTH95 or MTH96 or designated placement score.

MTH211L
Fundamentals of Elementary Algebra Lab
Lab associated with MTH211.

MTH212 (5 credits)
Fundamentals of Elementary Math II
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. Course will study the topics of basic math, algebra, counting theory, probability, and statistics. Course is graded A through F. Prerequisites: MTH211 or designated placement score

MTH212L
Fundamentals of Elementary Algebra II Lab
Lab associated with MTH212.

MTH213 (5 credits)
Fundamentals of Elementary Math III
Third term of a three-term sequence designed to prepare preservice 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. Prerequisites: MTH95 or MTH96 or designated placement score.

MTH213L
Fundamentals of Elementary Math III Lab
Lab associated with MTH213.

MTH243 (4 credits)
Probability and Statistics
Covers the nature and presentation of data, measures of central tendency, probability and probability distributions, normal and binomial distributions, estimates, sample sizes, confidence intervals and hypothesis testing. Course is graded A through F. A graphing calculator is required (instructor will be using the TI-83 or TI-84 graphing calculator in class). There is a significant online component in this class. Prerequisites: MTH95 or MTH96 or designated placement score.

MTH243L
Probability and Statistics Lab
Lab associated with MTH243.

MTH244 (4 credits)
Inferential Statistics
Extends on the knowledge of descriptive statistics learned in MTH243 to develop abilities in inferential statistics. Emphasis is on the understanding and application of interval estimating, hypothesis testing, correlation and regression, inferences using Chi-square, and one-way and two-way analysis of variance (ANOVA). Designed to provide students with the analytical skills they will need in upper division business courses including accounting, finance, operations management and applied research. Prerequisites: MTH243 and CIS125SS or BA285.

MTH251 (5 credits)
Calculus I (Differential)
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.

MTH251L
Calculus I (Differential) Lab
Lab associated with MTH251.

MTH252 (5 credits)
Calculus II (Integral)
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.

MTH252L
Calculus II (Integral) Lab
Lab associated with MTH252.

MTH253 (5 credits)
Calculus III

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.

MTH253L
Calculus III Lab
Lab associated with MTH253.

MTH254 (5 credits)
Vector Calculus
Fourth 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.

MTH254L
Vector Calculus Lab
Lab associated with MTH254.

MTH256 (5 credits)
Differential Equations
First course in ordinary differential equations for science, mathematics, and engineering students. Includes first-order differential equations, linear second-order differential equations, and higher-order linear differential equations with applications. Additional topics include Laplace transforms, series solutions of linear differential equations, and systems of differential equations with applications. A computer lab is required. Prerequisite: MTH253.

MTH256L
Differential Equations Lab
Lab associated with MTH256.

MTH261 (5 credits)
Linear Algebra
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. Prerequisites: MTH251 and MTH252.

MTH261L
Linear Algebra Lab
Lab associated with MTH261.

MTH280 (variable credit)
CWE/Math
Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the job, experiential learning based on skills acquired in their program. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, students. Prerequisite: CWE courses require prior arrangements with faculty or the Department Chair.

MUS - 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 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. Co-requisite: WR121.

MUS108 (3 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. Co-requisite: WR121.

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. MUS111, 112, 113 courses must be taken in sequence. Pre-requisite: MUS101. Co-requisite: WR121.

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. MUS111, 112, 113 courses must be taken in sequence. Pre-requisite: MUS101. Co-requisite: WR121.

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. MUS111, 112, 113 courses must be taken in sequence. Pre-requisite: MUS101. Co-requisite: WR121.

MUS131 (2 credits)
Class Piano I
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 for 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 for up to 4 credits.

MUS138 (2 credits)
Group Guitar: Intermediate
Enables students to create more complicated common style arrangements to folk, blues, and popular song styles by adding melody notes and bass runs to open chords. Students will also learn accompanying styles to a much broader range of song types, the use of more sophisticated chords and voicings, and the use of barre chords affording the guitarist the ability to play in any key. May be repeated up to 6 credits. Prerequisite: MUS137.

MUS199 (variable credits)
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. Co-requisite: WR115.

MUS201 (4 credits)
Introduction to Western Music
Studies styles and historical contexts of music from antiquity to the present. No musical background is required. Co-requisite: WR121.

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. Co-requisite: WR121.

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. Co-requisite: WR121.

MUS207 (3 credits)
Songwriting
Studies examples of songwriting techniques used and recommended by successful songwriters. Students will compose original songs for peer and instructor review. Prerequisite: WR115 or designated placement score.

MUS208 (3 credits)
Film Music
Explores the capacity of music to enhance drama and affect our emotions in the medium of film, and looks at different ways music has been used in film since the birth of cinema to the present. The course is focused around various themes, in keeping with the department mission to increase students' literacy, awareness of cultures and different cultural values, critical thinking, and self-awareness. Course contains an online component. No prior knowledge of music or film history is necessary. Co-requisite: WR121.

MUS211 (4 credits)
Music Theory and Aural Skills IV
Continues MUS111, MUS112 and MUS113. 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. Prerequisites: MUS113 or equivalent knowledge. MUS211, 212, 213 courses must be taken in sequence.

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. Prerequisites: MUS113 or equivalent knowledge. MUS211, 212, 213 courses must be taken in sequence.

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. Prerequisites: MUS113 or equivalent knowledge. MUS211, 212, 213 courses must be taken in sequence, unless instructor permission is granted.

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. Prerequisite: MUS101 or knowledge of music fundamentals and the ability to read music and WR115. Co-requisite: WR121.

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. Prerequisite: MUS101 or knowledge of music fundamentals and the ability to read music and WR115. Co-requisite: WR121.

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. Prerequisite: MUS101 or knowledge of music fundamentals and the ability to read music and WR115. Co-requisite: WR121.

MUS264 (3 credits)
History of Rock I: The Roots of Rock

Provides students with an opportunity to explore the musical, social and cultural aspects of rock music from its pre-rock influences and its development through c.1963. Emphasis is placed on building listening and comprehension skills through listening to rock music, in-class discussion of the music, class assignments, research, and reading of the text.. Prerequisite: WR115. Co-requisite: WR121.

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. Co-requisite: WR121.

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. Co-requisite: WR121.

NFM - 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 documented proficiency. Recommended prerequisites: CHEM104 and BI211.

NRS, NUR - NURSING

Career and Technical Courses

NRS110 (4 credits)
Foundations of Nursing - Health Promotion

This course introduces the learner to framework of the OCNE curriculum. The emphasis on health promotion across the life span includes learning about self-health as well as client health practices. To support self and client health practices, students learn to access research evidence about healthy lifestyle patterns and risk factors for disease/illness, apply growth and development theory, interview clients in a culturally sensitive manner, work as members of a multidisciplinary team giving and receiving feedback about performance, and use reflective thinking about their practice as nursing students. Populations studied in the course include children, adults, older adults and the family experiencing a normal pregnancy. This course includes classroom and clinical learning experiences. The clinical portion of the course includes practice with therapeutic communication skills and selected core nursing skills identified in the OCNE Core Nursing Skills document. Prerequisites: Completion of all prerequisite/preparatory courses (minimum of 45 credits) and formal acceptance into the RCC AAS nursing program. Co-requisite: NRS110C.

NRS110C (5 credits)
Foundations of Nursing Health Promotion Lab and Clinical

Clinical associated with NRS110.

NRS111 (2 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 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, NRS230, and NRS232. Co-requisites: NRS111C, NRS231 and NRS233.

NRS111C (4 credits)
Foundations of Nursing in Chronic Illness I Lab/Clinical

Clinical associated with NRS111.

NRS112 (2 credits)
Foundations of Nursing in Acute Care I

Introduces the learner to assessment and common interventions (including relevant technical procedures) for care of patients across the life span who require acute care, including normal childbirth. Disease/illness trajectories and their translation into clinical practice guidelines and/ or standard procedures are considered in relation to their impact on providing culturally sensitive, patient-centered care. Includes classroom and clinical learning experiences. Prerequisites: NRS110 and NRS110C. Co-requisites: NRS112C, NRS230 and NRS232.

NRS112C (4 credits)
Foundations of Nursing in Acute Care I Lab/Clinical

Clinical associated with NRS112.

NRS115 (2 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. Co-requisite: NRS115C.

NRS115C (4 credits)
LPN Transition to OCNE Clinical

Clinical associated with NRS115.

NRS199 (variable credits)
Nursing: Selected Topics

Develops students' abilities to recognize and treat the symptoms of illness and injury in classroom labs and simulated patient care scenes. Includes skills in patient assessment, basic airway management, overall assessment and patient management, medication administration, and the use of other equipment. Prerequisite: Full acceptance to the RCC Nursing Program.

NRS221 (5 credits)
Nursing in Chronic Illness II and End-0f-Life

This course builds on Foundations of Nursing in Chronic Illness I. Chronic Illness II expands the student's knowledge related to family care giving, symptom management and end of life concepts. These concepts are a major focus and basis for nursing interventions with patients and families. Ethical issues related to advocacy, self-determination, and autonomy are

explored. Complex skills associated with the assessment and management of concurrent illnesses and conditions are developed within the context of patient and family preferences and needs. Skills related to enhancing communication and collaboration as a member of an inter-professional team and across health care settings are further explored. Exemplars include patients with chronic mental illness and addictions as well as other chronic conditions and disabilities affecting functional status and family relationships. The course includes classroom and clinical learning experiences. Prerequisites:

NRS110, NRS111, NRS112, NRS230, NRS231, NRS232 and NRS233. Co-requisite: NRS221C.

NRS221C (4 credits)
Nursing in Chronic Illness II and End-Of-Life Clinical

Clinical associated with NRS221.

NRS222 (5 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. Co-requisite: NRS222C.

NRS222C (4 credits)
Nursing in Acute Care II and End-of-Life Clinical

Clinical associated with NRS222.

NRS224 (2 credits)
Integrative Practicum I

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 the 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. Co-requisite: NRS224C.

NRS224C (7 credits)
Integrative Practicum I

Clinical associated with NRS224.

NRS230 (3 credits)
Clinical Pharmacology I

This course introduces the theoretical background that enables students to provide safe and effective care related to drugs and natural products to persons throughout the lifespan. It includes the foundational concepts of principles of pharmacology, non-opioid analgesics, and antibiotics, as well as additional classes of drugs. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of information, understanding of pharmacokinetics and pharmacodynamics, developmental physiologic considerations, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. Drugs are studied by therapeutic or pharmacological class using an organized framework. Prerequisites: BI234 and NRS110.

NRS231 (3 credits)
Clinical Pharmacology II

This sequel to NRS230 Clinical Pharmacology I continues to provide the theoretical background that enables students to provide safe and effective nursing care related to drugs and natural products to persons throughout the lifespan. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of information, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. The course addresses additional classes of drugs and related natural products not contained in Clinical Pharmacology I (e.g. antidiabetics, antineoplastics, immune related, musculoskeletal, psychotropics, herbals, gastrointestinal drugs, antivirals, antihyperlipidemics, diuretics). Prerequisite: NRS230.

NRS232 (3 credits)
Pathophysiological Processes I

This course introduces pathophysiological processes that contribute to many different disease states across the lifespan and human responses to those processes. It includes the foundational concepts of cellular adaptation, injury, and death; inflammation and tissue healing; fluid and electrolyte imbalances; and physiologic response to stressors and pain, as well as additional pathophysiological processes. Students will learn to make selective clinical decisions in the context of nursing regarding using current, reliable sources of pathophysiology information, selecting and interpreting focused nursing assessments based on knowledge of pathophysiological processes, teaching persons from diverse populations regarding pathophysiological processes, and communicating with other health professionals regarding pathophysiological processes. 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. Prerequisites: 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.

OAL - 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 score; and ability to walk with a backpack in the wilderness containing own 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. Prerequisites: BT113 or WR115 or designated placement score.

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 Prerequisites: BT113 or WR115 or designated placement score.

PE - 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: WR115 or BT113 or designated placement score.

PE185AML (1 credit)
Aerobics, Multi-Level

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.

PE185APT (1 credit)
Aquatics for Personal Trainers

Provides students with a solid foundation for working as personal trainers in the medium of water. Provides a comprehensive approach to the fundamentals of physical fitness, weight loss, and functional movements that promote flexibility, movement, and a life of health and wellness in a pool setting. The course is designed to support students who would like to pursue a personal trainer certification. Course is repeatable. Prerequisites: PE185PCW and PE194.

PE185BAP (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. There will be a required planning/backpacking principles orientation in order to prepare for a mountain backpacking trip to an Oregon wilderness area. Students will be expected to share the cost of food and gas and will be responsible for their own backpacking gear including rental if necessary. Course is repeatable. Prerequisite: Ability to walk in the wilderness with a backpack containing personal gear for a minimum of 5-8 miles per day.

PE185BOW (1 credit)
Bowling

Teaches basic bowling skills as well as provides a foundation to more advanced skills and techniques for those who are ready and able. Through use of instructional videos, personalized coaching on and off the lanes, and feedback from fellow classmates and the instructor, students will achieve personal fitness goals while having fun and interacting with others. Upon completion of this course students will show an improvement in bowling techniques, develop an understanding of rules, verbiage and etiquette of the sport, and be able to watch and participate in the sport with greater ability and knowledge. Course is repeatable. Prerequisite: Sufficient physical ability to move on the lanes, lift a bowling ball, and throw it down the lane.

PE185CAC (1 credit)
Core and Cardio

Offers a variety of methods to achieve a stronger core and greater cardiac performance: weighted workout, kick boxing, circuit training, dance aerobics, step aerobics, and interval training are used to strengthen and increase metabolism, heart circulation, and lung capacity. Stretching, Pilates mat work, and the use of balls, weights and exercise bands to tone, strengthen, and develop the core, will also be employed. Short lectures will cover: the benefits of exercise, proper breathing and execution of exercises, prevention and care of exercise-related injuries, diet, physiology, major muscle group and body terms, and information on related health issues. Course is repeatable.

PE185CFT (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. Each class will begin with a warm-up including toning and dynamic stretching of all major muscle groups followed by 40 to 55 minutes of circuit activities. Weight machines, free weights, steps, medicine ball, slides, jogging / walking, resistance bands, stability ball and jump ropes are among the activities and equipment included. Course is repeatable.

PE185CID (1 credit)
Cycling Indoor

Improves fitness, health, and overall wellness through structured group cycling. The course is designed to improve cardiovascular endurance while enhancing cycling skills and mechanics. Instructor-led workouts are performed on stationary cycles using a variety of cycling-specific body positions and drills to the sounds of music. Focuses on maintaining or improving fitness through participation in a regular schedule of bicycle riding. Options for intensity are provided. Promotes improved cardiorespiratory conditioning, muscle strength and endurance, flexibility, and body composition. Course is repeatable. Prerequisite: Ability to pedal a stationary bicycle.

PE185DBR (1 credit)
Dance: Ballroom and Social

Introduces ballroom dancing including basic steps in some of the most popular European, Latin, and American ballroom dance rhythms. The emphasis is on learning the techniques of the basic moves in the different dance rhythms. Students are expected to execute moves based on the general dance patterned steps and are also expected to lead and follow extemporaneous sequences. Approximately 75 percent of the dance time the instructor cues the steps that students should be performing, and the class executes these moves together. 25 percent of the class time focuses on how to lead and how to follow for the various moves that have been taught. The goal is to have students leave with a fundamental working knowledge of the most popular and familiar ball room dances: Foxtrot, Rumba/Cha-Cha, Waltz, Tango, and Swing (Jitterbug/Jive). Course is repeatable.

PE185DSL (1 credit)
Dance: Salsa and Latin

Salsa and Latin dance is an introductory social dance course that covers basic steps, patterns, and technique for several popular Latin rhythms. An emphasis on lead and follow technique will allow students to execute improvised dance to music. By the end of the term, students will have a fundamental working knowledge of the dances presented in class, with some ability to both lead and follow as demonstrated in a final exam. The dances covered include: Salsa, Cumbia, Bachata, and Merengue. Course is repeatable. Prerequisite: Ability to stand and move in close contact with another person.

PE185HKO (1 credit)
Hiking Oregon

Teaches necessary skills involved in hiking. These skills include pre-trip planning, orienteering, traveling as a group, wilderness ethics, and safety. Course topics will also include plant, animal, and animal track identification. We will focus on learning about and exploring the diverse flora and fauna while enjoying the beauty that the Oregon National Recreation Area has to offer in wilderness areas and coastal environments. We will be camping in state or local campgrounds and hiking each day from that base camp. You are expected to learn and share in all aspects of hiking together including plant and animal identification, map and compass lessons and Geocaching GPS activities. We will cover basic preventative first aid, particularly hydration and foot care. We will approach challenges as a group, and involvement is critical to a safe and successful backcountry excursion. Course is repeatable. Prerequisites: Physical abilities and strength to sustain 3 days of hiking in the recreation areas of Oregon. Students must be able to minimally perform the requisite physical activities and participate on a regular, daily basis for the entire length of the class period to pass the class successfully.

PE185KAK (1 credit)
Karate/Kenpo Self Defense (Beginning through Advanced)

Covers the fundamentals of the traditional form of karate, Daimon-Ryu Kenpo karate. Emphasis is on self-development and awareness, with the acquisition of self-defense skills as a practical by-product. The course covers postures, fundamental techniques, self-defense applications, and basic combinations of the material. Upon successful completion of the Yellow Belt exam, an official rank certificate will be recorded and issued to the candidate. Course is repeatable.

PE185KAR (1 credit)
Karate, Traditional

Teaches the fundamentals of Okinawan/Japanese karate (Ukinju-Ryu Karate-Do) that has an emphasis on balance, coordination, physical fitness, and personal wellbeing as a primary goal, with the acquisition of self-defense skills and a sport competition component as practical byproducts. Covers postures, fundamental techniques, interactive drills, and self-defense applications. In addition, international sport competition rules and regulations and the basic combative skills will be introduced that can lead to organized sport competition comparative, in style, to that of the Traditional Karate-Do to be featured in the 2021 Tokyo Olympic Games. Course is repeatable. Prerequisite: Students must be able to minimally perform the requisite physical activities defined by the course.

PE185KSA (1 credit)
Kayaking the Sea Coast Adventure

Offers beginners and seasoned kayakers a unique educational, outdoor adventure. Students will learn to maneuver sea kayaks in different environments in the ocean based on the ACA's Essentials of Kayaking curriculum, Levels 1-3. The course is designed to heighten a student's enjoyment of padding in the ocean and to appreciate the beauty, both as a spectator and as a participant, of the kayaking adventure. Students will learn the fundamental kayaking skills that provide lifelong recreational learning and fitness enjoyment. Includes the basic elements of ocean navigation, safety considerations, and paddling and stability techniques. Course is repeatable. Prerequisites: Breathe independently (i.e., not require medical devices to sustain breathing); independently maintain sealed airway passages while underwater; independently hold head upright without neck/head support; manage personal care independently; manage personal mobility independently; follow instructions and effectively communicate independently; independently turn from face-down to face-up and remain floating face up while wearing a properly fitted life jacket; get in/out of a paddlecraft independently as well as get out from under a capsized paddlecraft.

PE185KWW (1 credit)
Kayaking Whitewater

Offers beginners and seasoned river runners a unique educational, outdoor adventure. Students will learn to kayak various parts of the Rogue River based on the ACA's Essentials of Kayaking curriculum levels 1-3. Course is designed to heighten a student's enjoyment of the river and its beauty, both as a spectator of the river and as a participant in the kayaking adventure in still waters up to Class I-II rapids. Students will learn fundamental kayaking skills that provide lifelong recreational learning and fitness enjoyment. Includes the basic elements of river reading, safety considerations, and paddling techniques, and learning the skills required to efficiently maneuver a kayak on rivers with Class I-II rapids. Prerequisites: Ability to breathe independently (i.e., not require medical devices to sustain breathing); independently maintain sealed airway passages while underwater; independently hold head upright without neck/head support; manage personal care independently; manage personal mobility independently; follow instructions and effectively communicate independently; independently turn from face-down to face-up and remain floating face up while wearing a properly fitted life jacket.

PE185LSW (1 credit)
Lap Swimming

Fosters the development of cardiovascular health and increased strength and flexibility through aquatic and strength exercises at the community YMCA pool and fitness center. Emphasizes overall fitness and encourages students to swim and train at their own pace. Students set individual goals for swimming

and strength training, and strive to reach those goals over the course of the term. Students meet with the instructor before the class begins to discuss class procedures and goals. Course is repeatable. Prerequisite: Sufficient physical ability to swim and/or move in a pool environment.

PE185MTN (1 credit)
Mountaineering

Covers the basic skills needed to explore and respect the wilderness while perfecting the ability to climb mountains safely. Skills necessary to plan equipment and make informed choices in a wilderness environment will be covered and include: equipment, knots, safety, training, stretching, skills and techniques, route finding, belaying, snow and ice anchors, rappelling, rope handling, self-arrest, crevasse rescue, and team work. The course will include two off-campus backcountry trips to learn and practice skills in preparation for a mountaineering trip. All three day trips are required for successful completion of the course. Students will be expected to share the cost of food and gas, and will be responsible for their own winter boots and clothing. Mountaineering equipment including: helmets, harnesses, ice axes, crampons, ropes, belay devices, prussiks, snow and ice anchors, and avalanche equipment will be provided. Course is repeatable. Prerequisite: Physical abilities and strength to climb mountains.

PE185PCW (1 credit)
Physical Conditioning - Weight Training

Encompasses body composition evaluation, fitness assessments, a variety of the newest fitness industry weight training programs and 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 to create an individual workout based on components of best practices in the fitness industry. Incorporates fitness and weight lifting activities to accommodate each student's ability and need by designing a workout to address individual performance levels and student goals. Course is repeatable. Prerequisite: Ability to lift weights and use cardio equipment.

PE185PIL (1 credit)
Pilates

Designed to enhance flexibility, core strength, coordination, improved breathing and lung capacity, muscle control and balance through a system of controlled movements, Pilates is an "all comers" exercise course. Pilates is an effective method for reducing stress, increasing abdominal tone, improving posture and flexibility by combining smoothly controlled movements with concentration and breathing. Students of all ability levels are welcome. Course is repeatable.

PE185RCA (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. This will be a three-day, two-night climbing expedition. Class requires an orientation session where skills will be demonstrated, practiced and audited. Class focus would be on continued skill development in the outdoor rock climbing environment. Course is repeatable. Prerequisites: Physical abilities and strength to climb rock surfaces; and PE185RCB Beginning Rock Climbing or proficiency.

PE185RCB (1 credit)
Rock Climbing Beginning

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. Students will be expected to share the cost of food and gas, and will be responsible for their own rock climbing gear including rentals if necessary. Course is repeatable. Prerequisite: Physical abilities and strength to climb rock surfaces.

PE185RRV (1 credit)
Rafting the River

Offers beginners and seasoned river runners a unique educational, outdoor adventure. Students will learn to raft various parts of the Rogue River based on the ACA's Essentials of Rafting curriculum Levels 1-3. The course is designed to heighten a student's enjoyment of the river and its beauty, both as a spectator and as a participant of the rafting adventure in still waters up to mild rapids. Includes the skills required to efficiently row and paddle a raft on rivers by mastering skills such as using good judgement and organization, river reading, safety considerations, and paddling and rowing techniques such as forward/pushing, back/pulling, opposing, single and dual oar use, facing down and upstream on the river, turn craft to left, right, straight, reverse, spin-pivot turn, turn broad arcing while underway, river strategies, rowing in current, scouting, portaging/lining, and river signals. Students will enjoy boating skills that provide lifelong recreational learning and fitness enjoyment. Course is repeatable. Prerequisites: Ability to breathe independently (i.e., not require medical devices to sustain breathing); independently maintain sealed airway passages while underwater; independently hold head upright without neck/head support; manage personal care independently; manage personal mobility independently; follow instructions and effectively communicate independently; and independently turn from face-down to face-up and remain floating face up while wearing a properly fitted life jacket.

PE185SAC (1 credit)
Soccer and Conditioning

Encompasses body composition evaluation and fitness assessments, a variety of the fitness industry's weight training programs and activities that involve muscle endurance and strength, aerobic activities for improved cardiovascular endurance and circulation, and stretching for flexibility, specifically for soccer players. Students are paired together and will be put through intense circuit training each day. Each grouping of exercises has a set number of repetitions to be completed in a certain amount of time as displayed on the instructor's clock. Each session is a full body workout that includes major muscle groups of the upper body, lower body, and core. Each class ends in a short soccer match. Course is repeatable. Prerequisites: Ability to lift weights, use cardio equipment, and participate in small sided soccer games.

PE185SAS (1 credit)
Step and Stuff

Develops individual cardiovascular fitness, muscular strength and endurance, flexibility and stability through group exercise activities utilizing step platforms and various other exercise equipment. Learn about basic step moves, starting out easy and working up to more advanced moves, as well as mat work, stability balls, free weights, step/platforms and exercise bands to strengthen muscle, increase endurance, stretch bodies, and abdominal/core work. Each class begins with a warmup, including toning and dynamic stretching of all major muscle groups, followed by 40-55 minutes of fitness activities. Every class ends with a cool-down period focusing on static stretching, breathing, body alignment, and relaxation. At the end of class, the instructor will discuss handouts and information such as the benefits of breathing and exercise, the prevention and care of exercise-related injuries, muscles, diet, physiology, and information related to health. Course is repeatable.

PE185SCU (1 credit)
SCUBA Diving

Designed to foster the development of proper and safe techniques in obtaining an Open Water Diver Certificate issued by Scuba Schools International (SSI). Offers students classroom instruction, pool practice, and a minimum of four open water dives of 20 minutes each, in rivers, lakes or ocean. This certificate allows holders to dive to a maximum depth of 60' in open water with another certified diver. The two-part water skills are: confined water sessions at the YMCA and an open water, two-day weekend at a local river or lake. Additional fees are required. Course is repeatable.

PE185SDW (1 credit)
Self Defense for Women

Offers instruction in 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. Course is repeatable.

PE185SID (1 credit)
Soccer, Indoor

Provides instruction in all areas of indoor soccer: essential components of skill sets, game tactics, offensive and defensive strategies, and fundamentals of team play. Students will learn fundamental rules and skills that will provide them lifelong recreational learning and fitness enjoyment. Through this course, students will foster qualities of sportsmanship, team play, collaboration, cardiorespiratory fitness, and commitment. Course is repeatable. Prerequisite: Students need to be able to run and kick a ball to fully participate in all activities.

PE185SSS (1 credit)
Snow Skiing - Snowboarding

Designed to teach the complete range of alpine skiing or snowboarding skills, from basic to advanced techniques, in small group settings of students based on ability levels. Course is designed to help students achieve personal fitness goals, while having fun and interacting with others. Upon completion of this course, students will show improvement in downhill techniques, develop an understanding of rules and etiquette of the sport and be able to view the sport with greater appreciation of the techniques and skills required. RCC HPER Department will communicate with instructors from Southern Oregon University, and Mt. Ashland ski/snowboard instructors to offer a seamless experience of combining students from two educational institutions. Course is repeatable. Prerequisite: Ability to stand on skis or snowboard and maintain balance while developing techniques on the mountain.

PE185SUA (1 credit)
Surfing Adventure

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 the camping location. Participation in all aspects of the orientation and trip are necessary to successfully complete the course. Course is repeatable. Prerequisite: Ability to float, swim, tread water and carry a surfboard into the ocean to at least waist-deep water.

PE185TAI (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. Learning to do forms is one objective of this course, but the emphasis is on understanding the concepts of Tai Chi as related to stress reduction and relaxation. Course is repeatable. Prerequisite: Ability to engage in specific movement patterns.

PE185TRX (1 credit)
TRX and Functional Fitness

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. Every class will end with a cool-down period focusing on static stretching and relaxation. Mini-lecture sections will cover benefits of exercise, functional strength for optimal wellness, proper breathing and execution of exercises, prevention and care of exercise-related injuries, diet, major muscles groups and body anatomy, and information on related health issues. Course is repeatable.

PE185VBL (1 credit)
Volleyball Co-ed

Learn the fundamental rules and skills that will provide lifelong recreational learning and fitness enjoyment of volleyball. This course is designed to allow students to master basic volleyball proficiency, acquire advanced skills, gain knowledge of game tactics, offensive and defensive strategies, develop communication with teammates, and practice fair play in a lifetime sport. Through this course, students will foster qualities of sportsmanship, team play, collaboration. Course is repeatable. Prerequisite: Sufficient physical ability to move on the court and pass/hit a volleyball.

PE185WSA (1 credit)
Winter Survival and Snow Camping Adventure

Provides training and practical application of learning to deal with the extremes of winter and camping in the snow. The winter environment poses many inherent challenges to travelers and outdoor adventure participants. Every year, individuals and families enter the wilderness and find themselves unprepared for peril due to accidents, poor planning, or lack of education. Course is repeatable. Prerequisite: Ability to walk in the snowy wilderness for short distances with

PE185WWT (1 credit)
Women and Weights: Weight Control and Strength Improvement

Focuses on empowering women and men with the basics of weight training and various modes of fitness, with a special focus on the physiology of the woman's body. The benefits of safe, effective, and progressive strength training will be emphasized. Topics in the course will include enhanced strength, muscle tone, increased metabolism, enhanced energy levels and reduction of depression symptoms. Each week a new mode of fitness will be introduced or incorporated into a progressively expanding circuit of exercises. These circuit activities will rotate on a regular schedule. Every class will end with a cool-down, stretching, and relaxation. Short lecture sections will cover the benefits of exercise, proper breathing and execution of exercises, prevention and care of exercise related injuries, diet, physiology, major muscle groups and body terms, and information on related health issues. Course is repeatable.

PE185YOB (1 credit)
Yoga Balance and Core

Yoga, balance and core is inspired by Yoga and Pilates with added core and strength conditioning. This class is designed to include exercise that increases strength, stamina, stability, balance, flexibility, and focus on the core muscles. Poses are held for several breaths to focus on increasing strength, while a rhythmic, flowing style generates heat in the body. This blend of focus and flow incorporates dynamic balance and functional training that challenge strength and balance, and emphasize the athleticism of yoga and Pilates. Classes end in a traditional way with deep relaxation and meditation. Modifications available for all fitness levels, no prior yoga or Pilates experience is required. Course is repeatable. Prerequisite: Ability to follow slow poses and movements.

PE185YOF (1 credit)
Yoga Flow

Yoga Flow is inspired by Yoga, Tai Chi and Qi Gong, with added core and strength conditioning. This class is designed to include exercise that increases strength, stamina, stability, balance, flexibility, and focus on the core muscles. Poses are held for several breaths to focus on increasing strength, while a rhythmic, flowing style generates heat in the body. This blend of focus and flow incorporates dynamic balance and functional training that challenge strength and balance, and emphasize the athleticism of yoga. Classes end in a traditional way with deep relaxation and meditation. Modifications available for all fitness levels. No prior yoga, Tai Chi or Qi Gong experience is required. Course is repeatable. Prerequisite: Ability to follow the instructor's movements in Yoga/Tai Chi/Pilates style actions.

PE185YOG (1 credit)
Yoga

Offers an effective method for reducing stress and creating a relaxation response within the body and mind. Through a series of controlled exercises, stretching, and breathing techniques, this course will give students firsthand experience with the concepts and applications of being responsible for improving health. Yoga enhances flexibility, strength, coordination, lung capacity and balance through a system of gentle movements: various yoga poses (asanas), alignment principles, and breathing techniques (pranayamas). Students of all ability levels and all faith systems are welcome. Course is repeatable.

PE185ZLG (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 given over two weekends. Participation in all aspects of the orientation and trip are necessary to successfully complete the course. Course is repeatable. Prerequisite: Physical fitness in order to perform required duties of zip line guide.

PE185ZUM (1 credit)
Zumba

Zumba® is a Latin-inspired, dance-fitness class that incorporates Latin and international music with dance movements, creating a dynamic, exciting, and effective fitness workout. This class combines fast and slow rhythms that tone and sculpt the body in an aerobic/fitness fashion to achieve a unique blended balance of cardio and muscle toning movements through easy-to-follow steps. Movements target areas such as the legs, arms, core, abdominal, and the most important muscle in the body, the heart. Students are encouraged to work at their own paces. Activities include: muscular endurance, cardio-vascular endurance, body composition, flexibility, and learning the basic muscle groups. Course is repeatable.

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 or WR91 (WR91 substitutes for both RD90 and WR90). Recommended prerequisites: BI121 or BI231. Co-requisite: PE185D.

PE199 (variable credits)
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. Core topics covered include client screening, testing and evaluation, informed consent, data interpretation, exercise prescription, load training, flexibility, and advanced training for the apparently healthy population. Special populations of physically challenged, pregnant and postpartum women, and mature adults will also be topics of discussion. The American College of Sports Medicine texts will be used to prepare students for pursuing a nationally recognized personal trainer certification. Students will receive both content knowledge through lecture and dialogue, and practical experience in the weight room and health assessment settings to understand the fundamentals of fitness assessment and exercise prescription. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90). Co-requisite: PE185D.

PE280 (variable credits)
CWE/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; CWE courses require prior arrangements with faculty or the Department Chair. Co-requisites: PE264 or HE259.

PE290 (2 credits)
Fitness Instructor

Trains students in the skills needed to conduct a variety of group exercise classes. Course content includes the practical application of cardiovascular and neuromuscular exercise science, leadership and teaching skills, behavior modification and motivation, choreography and pattern development, class structure and components, and practical sessions. Course prepares students for the option of pursuing an American Council on Exercise, Group Fitness Instructor certification. RCC is a national testing center for the American Council on Exercise, allowing students easy access to the comprehensive exam. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90), or designated placement 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: Minimum 16 years of age and ability to pass swimming tests (freestyle, side stroke, and breast stroke).

PH - PHYSICS

Lower Division Collegiate

PH201 (5 credits)
General Physics I
First 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 5-credit class. Prerequisites: MTH112 and WR115 or BT113 or designated placement score. Co-requisites: PH201L, PH201R.

PH201L
General Physics I Lab
Lab associated with PH201. Prerequisites: MTH112 and WR115 or BT113 or designated placement score.

PH201R
General Physics I Recitation
Recitation associated with PH201. Prerequisites: MTH112 and WR115 or BT113 or designated placement score.

PH202 (5 credits)
General Physics II
Second of a three-term algebra-based physics course. Special relativity and electromagnetism are covered. This includes but is not limited to space-time 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 5-credit class. Prerequisites: PH201 or PH211. Co-requisites: PH202L, PH202R.

PH202L
General Physics II Lab
Lab associated with PH202. Prerequisites: PH201 or PH211.

PH202R
General Physics II Recitation
Recitation associated with PH202. Prerequisites: PH201 or PH211.

PH203 (5 credits)
General Physics III
Third 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 5-credit class. Prerequisites: PH202 or PH212. Co-requisites: PH203L, PH203R.

PH203L
General Physics III Lab
Lab associated with PH203. Prerequisites: PH202 or PH212.

PH203R
General Physics III Recitation
Recitation associated with PH203. Prerequisites: PH202 or PH212.

PH211 (5 credits)
General Physics (Calculus Based) I
First 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 5-credit class. Prerequisites: MTH112 and WR115 or BT113 or designated placement score. Co-requisites: MTH251, PH211L, PH211R.

PH211L
General Physics (Calculus Based) I Lab
Lab associated with PH211. Prerequisites: MTH112 and WR115 or BT113 or designated placement score.

PH211R
General Physics (Calculus Based) I Recitation
Recitation associated with PH211. Prerequisites: MTH112 and WR115 or BT113 or designated placement score.

PH212 (5 credits)
General Physics (Calculus Based) II
Second of a three-term calculus-based physics course. Special relativity and electromagnetism are covered. This includes but is not limited to space-time 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 five-credit class. Prerequisites: PH211 and MTH251. Co-requisites: PH212L and PH212R.

PH212L
General Physics (Calculus Based) II Lab
Lab associated with PH212. Prerequisites: PH211 and MTH251.

PH212R
General Physics (Calculus Based) II Recitation
Recitation associated with PH212. Prerequisites: PH211 and MTH251.

PH213 (5 credits)
General Physics (Calculus Based) III
Third 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 5-credit class. Prerequisites: PH212 and MTH252. Co-requisites: PH213L and PH213R.

PH213L
General Physics (Calculus Based) III Lab
Lab associated with PH213. Prerequisites: PH212 and MTH252.

PH213R
General Physics (Calculus Based) III Recitation
Recitation associated with PH213. Prerequisites: PH212 and MTH252.

PHL - PHILOSOPHY

Lower Division Collegiate

PHL101 (4 credits)
Philosophical Problems
Introduces basic questions of philosophy and some of the persistent philosophical problems. Students will be introduced to some of the traditional solutions to those problems and be given a base to provide their own answers. Prerequisites: WR115 or designated placement score.

PHL102 (4 credits)
Ethics
Develops the idea of humans as moral agents and provides critical consideration of various interpretations of the ideals and standards of moral conduct. Prerequisites: WR115 or designated placement score.

PHL103 (4 credits)
Critical Reasoning
Introduces the study of reasoning, including the ability to recognize, analyze, criticize, and construct the main types of argument and proof. Prerequisites: WR115 or designated placement score.

PHL199 (variable credits)
Special Studies: Philosophy
Explores major ideas and belief systems of the world and the extent to which individual values are shaped by cultures. Prerequisites: WR115 or designated placement score.

PN - PRACTICAL NURSING

Career and Technical Courses

PN101 (8 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. Prerequisites: OSBN CNA certification, BI121 and BI122 with lab (or BI231, BI232 and BI233 with labs) within 7 years, CPR, CIS120 or documented computer proficiency, MTH65 or higher level math, PSY101, WR121, and acceptance into the Practical Nursing program (see the catalog for detailed information). Co-requisite: PN101C. Course does not transfer.

PN101C (4 credits)
Practical Nursing I Clinical
Clinical associated with PN101. Occurs in the skills lab and a long-term care setting. Skills lab/clinical course is graded on a pass/no pass basis. Prerequisites: OSBN CNA certification, BI121 and BI122 with lab (or BI231, BI232 and BI233 with labs) within 7 years, CPR, CIS120 or documented computer proficiency, MTH65 or higher level math PSY101, WR121, and acceptance into the Practical Nursing program (see the catalog for detailed information).

PN102 (8 credits)
Practical Nursing II
Continues application of the nursing process and practical nursing scope of practice to content in selected medical and 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. Prerequisites: PN101 and PN101C. Co-requisite: PN102C. Course does not transfer.

PN102C (4 credits)
Practical Nursing II Clinical
Clinical associated with PN102. 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. Prerequisites: PN101 and PN101C. Course does not transfer.

PN103 (8 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. Prerequisites: PN102, PN102C, and PSY101. Co-requisite: PN103C. Course does not transfer.

PN103C (4 credits)
Practical Nursing III Clinical
Clinical associated with PN103. Nursing care provided by the student in clinical situations 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: PN102, PN102C, and PSY101.

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. Co-requisites: PN103 and PN103C. Course does not transfer.

PRX - PHARMACY TECHNICIAN

Career and Technical Courses

PRX64 (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 milliliter-equivalents. Prerequisites: MTH60 or MTH63 and RD90 or WR91 or designated placement scores, and be admitted to the Pharmacy Technician Certificate program.

PRX100 (2 credits)
Occupational Safety
Designed to prepare students for the following sections: patient and 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. Prerequisite: Acceptance into the Pharmacy Technician Certificate program.

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 Certificate 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 Certificate program.

PRX150 (1 credit)
Pharmacy Technician Pre-Practicum and Seminar
Provides an extensive overview of office responsibilities and work ethics Prepares students for the challenges of their multiple roles in the pharmacy setting including guest, intern, student-worker, pharmacy technician, and customer service employee. Students will review and discuss the expectations and protocols for their upcoming practicum classes. Course will meet for two-hour sessions, five times during the term. Prerequisites: Acceptance into the Pharmacy Technician Certificate program.

PRX170 (2 credits)
Pharmacy Technician Practicum
Provides hands-on clinical experience. Students work an average of 9 hours per week in a host site as part of the pharmacy team and experience first-hand the various operations within different pharmacy settings. Duties will be assigned according to students' skill level and the work needs of the host site. Students will participate in three seminars during the term - an orientation seminar to discuss expectations for the term; a mid-term seminar to discuss current activities and exchange details on experiences; and a concluding seminar to reflect on work experiences. Seminars are attended and moderated by an instructor, who uses the feedback gained to evaluate current practicum experiences and improve future practicum experiences. Prerequisite: Acceptance into the Pharmacy Technician Certificate program.

PS - POLITICAL SCIENCE

Lower Division Collegiate

PS199 (variable credits)
Special Studies: Political Science
Selected topics of study in political science are offered on demand through workshops, seminars, lecture, lab, and/or independent study format. This course is designed to: Provide students with opportunities to explore in greater depth specific topics in the field of political science which are presented in the introductory political science course; Provide other RCC departments with a variety of subject offerings designed to address problems, issues and concerns which are unique to their specific discipline; Provide flexibility in meeting elective political science credits by allowing and encouraging students to research areas of political science not currently taught in the political science curriculum. Prerequisites: May vary depending on subject offerings.

PS201 (3 credits)
U.S. Government I
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 Prerequisites: WR115 or BT113 or designated placement score. Courses need not be taken in sequence.

PS202 (3 credits)
U.S. Government II
Examines the concepts and principles of the American political system including federal, state, and local government structures, and other related systems Prerequisites: WR115 or BT113 or designated placement score. Courses need not be taken in sequence.

PS203 (3 credits)
U.S. Government III
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. Prerequisites: BT113 or WR115 or designated placement score. Courses need not be taken in sequence.

PS280 (variable credits)
CWE/Political Science
Cooperative Work Experience is an educational program that enables students to receive academic credit for on-the-job, experiential learning based on skills acquired in their programs. Together, the instructor, employer, and student establish learning objectives that specify the significant and appropriate learning which is expected to result from the work experience. This course offers a career-related experience for students working for an approved employer. As a capstone course, it should be completed within the last two terms of a certificate or degree program. Prerequisite: CWE courses require prior arrangements with faculty or the Department Chair.

PSY - PSYCHOLOGY

Lower Division Collegiate

PSY101 (3 credits)
Psychology of Human Relations
Focuses on the practical application of psychology in everyday situations. Topics include self-concept, emotions, needs, values, healthy relationships, interpersonal communications, and behavioral change. The course provides students an experiential opportunity to develop an understanding and awareness of themselves and others, and a variety of practical tools for the development of interpersonal skills. Emphasis is on becoming a more effective member of the human community. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement score.

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 behavior and the behavior of others. The course consists of small and large group exercises augmented by lecture. Prerequisites: WR115 or BT113 or designated placement score.

PSY199 (variable credits)
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. Prerequisites: May vary depending on subject offerings.

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. Prerequisites: WR115 or BT113 or designated placement 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: WR115 or BT113 or designated placement score. Recommended prerequisite: PSY201.

PSY215 (4 credits)
Lifespan 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. Prerequisites: WR115 or BT113 or designated placement score. Co-requisite: PSY201.

PSY219 (4 credits)
Introduction to Abnormal Psychology
Introduces the psychology of abnormal behavior and its possible causes, along with an examination of the history and modern practice of mental health treatment, including legal issues such as insanity and civil commitment. Students will explore the nature of abnormality and examine social and cultural factors as well as specific disturbances in behavior, mood, thinking, and perception which have defined abnormality, past and present. Special problems of research with the clinical population and major theoretical models for assessment, diagnosis and treatment will also be studied. Specific topic areas include disorders of childhood and adolescence, anxiety, obsessive-compulsive and related disorders, disorders of trauma and stress, disorders featuring somatic symptoms, eating disorders, schizophrenia, and personality disorders. Prerequisites: WR115 or BT113 or designated placement score, and PSY201. Co-requisite: PSY202.

PSY228 (4 credits)
Introduction to Positive Psychology
Introduces students to theories and research in psychology that examine topics relevant to the nature of happiness and psychological well-being. Psychology has focused much of its efforts on the treatment of human problems. To balance this paradigm, positive psychology calls for research on what promotes human fulfillment and human potential. The most basic assumption is that human goodness and excellence are as important as disorder and human flaw. Topics covered in this course will include the nature, history and future of positive psychology, research methods, authenticity, joy, happiness, positive thinking, emotional intelligence, intuition, character strengths, core values, virtues, talents, health and social justice. Prerequisites: BT114 or WR121 or designated placement 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. Prerequisites: WR115 or BT113 or designated placement score.

PSY280 (variable credits)
CWE/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. Prerequisite: CWE courses require prior arrangements with faculty or the Department Chair.

RD - 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, course is equivalent to WR91. Course is graded on a pass/no pass basis. Prerequisite: Designated placement score as shown on current indicator chart. Course does not transfer.

RD115 (3 credits)
Speedreading 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. Prerequisites: RD90 or WR91 or designated placement score.

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. This class also provides rules and techniques to help students strengthen their spelling abilities. 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 college students, as well as their chosen career paths. Attention is given to application of spelling and vocabulary to college, personal success, and future employment. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement score.

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 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement score.

REL - 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 (AAOT). Prerequisites: WR115 or designated placement score.

REL243 (4 credits)
Nature, Religion and Ecology
Explores how different religious traditions and the cultures influenced by them view nature and the place of humankind within the natural environment. Native, Asian, and Western traditions are examined, as are contemporary eco-spiritual thinkers and movements. Class discussion for the students to apply the material in current social and personal contexts will be an integral part of the course. Prerequisites: WR115 or designated placement score.

SOC - SOCIOLOGY

Lower Division Collegiate

SOC199 (variable credits)
Special Studies: Sociology
Selected topics of study in sociology are offered on demand through workshops, seminars, lecture, lab, and/or independent study format. This course is designed to: Provide students with opportunities to explore in greater depth specific topics in the field of sociology which are presented in the introductory sociology courses; Provide other RCC departments with a variety of subject offerings designed to address problems, issues and concerns which are unique to their specific discipline; Provide flexibility in meeting elective sociology credits by allowing and encouraging students to research areas of sociology not currently taught in the sociology curriculum. Prerequisites: May vary depending on subject offerings.

SOC204 (4 credits)
Introduction to Sociology
Surveys theories and findings of sociology, including culture, individuals and groups, socialization, stratification and social control. It is designed to acquaint students with the social forces that impact the lives of individuals. Close attention is paid to social class, gender, and race as they impact life experiences. Focus is primarily on U.S. and Western societies, with some cross-cultural comparisons. Fulfills cultural literacy requirement within the Associate of Arts Oregon Transfer degree. Prerequisites: WR115 or BT113 or designated placement score.

SOC205 (4 credits)
American Society
Examines the organization of various American social institutions such as family, education, religion, politics, health care, criminal justice, media and economics, and analyzes distinctive features and how each are changing. Each social institution is examined in relation to how social class, gender and race inequalities manifest, and how inequalities are perpetuated. Social change and social movements are also studied. Fulfills cultural literacy requirement within the AAOT degree. Prerequisites: WR115 or BT113 or designated placement 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. Prerequisites: BT113 or WR115 or designated placement score. Recommended prerequisite: SOC204.

SOC213 (4 credits)
Race and Ethnicity in the U.S.
A sociological examination of 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. Prerequisites: WR115 or BT113 or designated placement 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. The course emphasizes the ways in which gender intersects with race, social class and sexual orientation. The focus is primarily on U.S. and Western societies, with some cross-cultural material. Fulfills cultural literacy requirement within the AAOT degree. Prerequisites: BT113 or WR115 or designated placement score.

SOC221 (4 credits)
Juvenile Delinquency
Presents a philosophical, historical, and practical survey of juvenile justice administration in the United States. In the context of an interdisciplinary framework, theories, factors, and characteristics of delinquency will be presented and treatment and delinquency prevention programs will be surveyed. Dual numbered as CJ201. Prerequisite: WR115 or designated placement score. Recommended prerequisite: LIB127.

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. Prerequisites: WR115 or BT113 or designated placement 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. Prerequisites: WR115 or BT113 or designated placement score.

SOC230 (4 credits)
Introduction to Gerontology
Introduces students to the field of gerontology and explores the relationships between the aging individual and society. Prerequisites: WR115 or BT113 or designated placement 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 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 focusing on the use of technology to communicate within relationships and to gain access to resources such as health care and education are introduced and applied. A variety of topics will be explored, including online relationships, social interactions, the workplace, Web-based instruction, impression management, therapy and health care. Concepts such as ethics, confidentiality, accessibility, identity, trust, and global implications will be explored. Prerequisites: WR115 or BT113 or designated placement score.

SOC243 (4 credits)
Drugs, Crime and Addiction
Introduce students to the dynamics of drug and alcohol addiction and the social and legal issues of drug abuse. Examines the political considerations behind contemporary drug enforcement policy. Explores the historical origins of the illegal drug trade. Dual numbered as CJ243. Prerequisite: WR115 or designated placement score.

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 CJ200. Prerequisite: WR115 or designated placement score. Recommended prerequisite: LIB127.

SOC280 (variable credits)
CWE/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. Prerequisite: CWE courses require prior arrangements with faculty or the Department Chair.

SPAN - SPANISH

Lower Division Collegiate

SPAN101 (4 credits)
First Year Spanish I
Introduces basic skills in Spanish in speaking, writing, reading, and aural comprehension. Special attention is given to developing cultural awareness. The sequence enables students to reach at least novice high proficiency as defined by the guidelines of the American Council on the Teaching of Foreign Languages (ACTFL). Courses are not suitable for heritage speakers. Prerequisite: RD90 or WR91 or designated placement score. Co-requisite: BT114 or WR121 or designated placement test score.

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 WR91 or designated placement score and SPAN101. Co-requisite: BT114 or WR121 or designated placement test score.

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 WR91 or designated placement score and SPAN102. Co-requisite: BT114 or WR121 or designated placement test score.

SPAN111 (1 credit)
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: WR115 or designated placement score.

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 WR91 or designated placement score, two years of high school Spanish, or successful completion of SPAN103. Co-requisite: BT114 or WR121 or designated placement test score. SPAN201, 202, 203 must be taken in sequence.

SPAN202 (4 credits)
Second Year Spanish II
Reinforces, synthesizes, and builds on the basic skills acquired in first-year Spanish in speaking, writing, reading, and listening comprehension. Special attention is given to developing cultural awareness. Students are required to communicate in Spanish. Materials include literary and cultural texts, audio exercises, films, music, and contextualized exercises in grammar. The sequence enables students to read at least intermediate-mid proficiency as defined by the guidelines of the ACTFL (American Council on the Teaching of Foreign Languages). Prerequisites: RD90 or WR91 or designated placement score, two years of high school Spanish, or successful completion of SPAN103, and SPAN201. Co-requisite: BT114 or WR121 or designated placement test score.

SPAN203 (4 credits)
Second Year Spanish III
Reinforces, synthesizes, and builds on the basic skills acquired in first-year Spanish in speaking, writing, reading, and listening comprehension. Special attention is given to developing cultural awareness. Students are required to communicate in Spanish. Materials include literary and cultural texts, audio exercises, films, music, and contextualized exercises in grammar. The sequence enables students to read at least intermediate-mid proficiency as defined by the guidelines of the ACTFL (American Council on the Teaching of Foreign Languages). Prerequisites: RD90 or WR91 or designated placement score, two years of high school Spanish, or successful completion of SPAN103, and SPAN202. Co-requisite: BT114 or WR121 or designated placement test score.

STP - STERILE PROCESSING

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 Certificate 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 Certificate 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 Certificate program and successful completion of all second term courses.

SRV - SERVICE LEARNING

Career and Technical Course

SRV101 (1 credit)
Service Learning
Develops a personal understanding of civic engagement via direct service to a community-based organization and through critical reflection. Students may propose service projects of their own design or may choose from a list of available projects. Course emphasis is on participating in activities that address identified community needs while developing academic skills and self-awareness. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement scores.

ST - SKILLS TRAINING

ST99 (0 credits)
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.

ST99S (0 credits)
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.

TA - 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. Prerequisite: Students must take courses in sequence.

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. Prerequisite: Students must take courses in sequence.

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. Prerequisite: Students must take courses in sequence.

TA144 (4 credits)
Improvisational Theater I
Acquaints students with improvisation through exercises, theater games, and impromptu scenes. Prerequisite: Students must take courses in sequence.

TA145 (4 credits)
Improvisational Theater II
Acquaints students with improvisation through exercises, theater games, and impromptu scenes. Prerequisite: Students must take courses in sequence.

TA146 (4 credits)
Improvisational Theater III
Acquaints students with improvisation through exercises, theater games, and impromptu scenes. Prerequisite: Students must take courses in sequence.

TA153 (4 credits)
Theater Rehearsal and Performance
Provides experience in rehearsing and performing plays as a member of the design, technical crew, or acting ensemble. Students will be evaluated on their artistic or energetic merit, their level of understanding of the work they are doing as it relates to theater arts, and their increasing insights into the collaborative process of producing plays.

TA190 (1 credit)
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, costume and/or makeup. Participation during the theater event is required for credit. Course may be repeated for up to 6 credits.

TA199 (variable credits)
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 credits)
CWE/Theater Arts
Cooperative education is a supervised program of on-the job training for college credit in an English-related area. Students are placed in a related industry, business, agency or organization which has been approved by the College as having the interest, personnel, and resources to serve as a training center. The goal of cooperative education is to provide a learning experience which enriches and strengthens the student's education, personal development, and vocational preparation. It joins educators and employers in developing the community's greatest asset-its human resources. Prerequisite: CWE courses require prior arrangements with faculty or the Department Chair.

WLD - 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. Course also introduces students to blueprint and drawing techniques which will be built upon with additional modules in the program. Dual numbered as MET105. Recommended prerequisite: MTH63.

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 a 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 a 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. Prerequisite: WLD111.

WLD113 (6 credits)
Technology of Industrial Welding III
Allows students to work towards mastery of gas metal arc welding (GMAW) and flux cored arc welding (FCAW) on both ferrous and non-ferrous materials in all positions. OR-OSHA-based safety training and non-ferrous alloy identification complete the course. Prerequisites: WLD111 and WLD112.

WLD121 (5 credits)
Fabrication and Repair Practices I
As the first of a series of two fabrication and repair courses, students are given a fundamental overview of the various fabrication and repair practices used in the steel fabrication industry, and safety in welding and fabrication. Course is based on the American Welding Society Entry Level Requirements (AWS EG2.0 and AWS QC10) utilizing the instructor's experience, in accordance with the American Welding Society AWS D1.1 (Structural Welding Code – Steel). Fit-up and alignment of parts to assemble various weldments and pipe joints and the basic procedures of planning, sketching, cost evaluation, ordering, layout, metal preparation, part fabrication, tack-up, and final welding will be introduced and applied. Shop math, distortion control, how to use squares, protractors, levels, clamps and string lines used in the fit-up process are also taught. Prerequisites: WLD111, MET101. Co-requisite: MET104.

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. 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.

WLD123 (6 credits)
Aluminum Boat Building I
First course in a three courses series on aluminum boat building. Students will cover basic terminology associated with aluminum boat manufacturing. Boat layout, metal forming and basic welding techniques utilizing the Gas Metal Arc Welding process in the flat and horizontal position will be covered. Material identifications, applications and dimensions will also be covered. Prerequisites: WLD111M or WLD250D.

WLD124 (6 credits)
Aluminum Boat Building II
Students will build on Aluminum welding skills started in WLD123. Fillet welds in the vertical and overhead using GMAW and GTAW processes. Further understanding of boat structure will be derived through pattern development and forming of components in this class. Students will gain exposure in finishing processes that provide protection and aesthetic elements to a boat. Prerequisite: WLD123.

WLD125 (6 credits)
Aluminum Boat Building III
Third in a three-course series. Students will build on aluminum welding skills covered in WLD123 and WLD124. An understanding of applicable maritime codes, jurisdictional control, and project planning will give students a window into basic management areas necessary in the operation of boat manufacturing entities. Scale model boats will be manufactured as the first step in consolidating all areas covered in previous instructional levels followed by the manufacture of a full size sport boat to round out the student experience. Prerequisites: WLD124.

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. Prerequisite: WLD112.

WLD199 (variable credits)
Welding: Special Topics
Provides study for students in technical programs to areas linked to industry. State-of-the-art equipment is used for industry standard-level instruction. Prerequisites: May vary depending on subject offerings.

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.

WLD212 (6 credits)
Technology of Industrial Welding V
Covers advanced techniques in welding mild steel, stainless steel, aluminum, and exotic metals using the gas tungsten arc welding (GTAW) process. Also advances skills needed for American Welding Society certification and employment in the welding/fabrication industry. Prerequisites: WLD111, WLD112, WLD113, WLD211.

WLD213 (6 credits)
Technology of Industrial Welding VI
Focuses on welding large and small diameter, ferrous and non-

ferrous pipe using the SMAW, GMAW, and GTAW welding processes. Includes pattern development, machine and manual oxyacetylene cutting, plasma cutting, layout, fit-up, inspection, and testing techniques. Also advances skills needed for American Welding Society (AWS) and American Society of Mechanical Engineers (ASME) certifications and employment in the welding/fabrication industry. Prerequisite: WLD212.

WLD220 (3 credits)
Machine Tool Maintenance and Repair
Focuses on troubleshooting problems commonly encountered in welding and fabricating equipment. Students will learn basic electrical principles and apply them to simple repair tasks on welding power sources. Removal and replacement of mechanical components on welding equipment and shop equipment (band saws, shears, drill presses, etc.) will round out the students' ability to function independently in the shop setting. Prerequisites: MTH60 or MTH63 or designated placement score, WR121 or BT114 or designated placement score, and WLD113.

WLD221 (3 credits)
Welding Codes, Procedures and Inspections
Studies the differences between various welding codes e.g., American Welding Society D1.1 Structural Steel, ASME Section IX Power Piping, API Pipeline, and others. Focuses on welding procedure specification (WPS), procedure qualification record (PQR), and welder qualification record (WQR). Covers visual inspection, destructive, and nondestructive testing of welds in accordance with the American Welding Society D1.1 and D1.4 welding codes. Prerequisites: BT113 or WR115 or designated placement score, and MTH20 or higher level math or designated placement score.

WLD225 (3 credits)
Industrial Metallurgy
Introduces what 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 score, and WLD113.

WLD250A (2 to 6 credits)
Selected Topics in Welding: FCAW
Focuses on further development of skill in flux cored arc welding as identified by the student and instructor. An individualized plan will be developed to further the students' technical and practical application of self-shielded and/ or gas shielded flux core welding in all positions on carbon steel. Prerequisite: Student must be an Industrial Welding Technology major.

WLD250B (2 to 6 credits)
Selected Topics in Welding: GTAW
Further development of skill in gas tungsten arc welding, as identified by the student and instructor. An individualized plan will be developed to further the students' technical and practical application of GTAW on, but not limited to: mild steel, stainless steel, and aluminum. Prerequisite: Student must be an Industrial Welding Technology major.

WLD250C (2 to 6 credits)
Selected Topics in Welding: SMAW
Will focus on further development of skill in shielded metal arc welding as identified by the student and instructor. An individualized plan will be developed to further the students' technical and practical application of self-shielded and/ or gas shielded flux core welding in all positions on carbon steel. Prerequisite: Student must be an Industrial Welding Technology major.

WLD250D (2 to 6 credits)
Selected Topics in Welding: GMAW
Course will focus on further development of skill in gas metal arc welding as identified by the student and instructor. An individualized plan will be developed to further the students' technical and practical application of gas metal arc welding in all positions on carbon steel and Aluminum. Prerequisite: Student must be an Industrial Welding Technology major.

WLD250F (2 to 6 credits)
Selected Topics: Welding Capstone Project
Course designed to build on trade related practices such as welding, project design, layout, project finishing, planning and estimating. Students will utilize the aforementioned areas to independently complete a project to meet requisite hours for the class. Applicable welding processes may be GTAW, FCAW, GMAW and SMAW. Students will complete a detailed planning packet with drawings, schedules, pricing and inspection points where grades will be derived. Prerequisites: WLD113 and student must be an Industrial Welding Technology major.

WLD250P (3 credits)
Selected Topics: 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. Prerequisites: MTH60 or MTH63 or designated placement score, and MFG140, WLD112.

WLD260 (1 credit)
AWS Certification Seminar: Pipe
Covers the definition, application and interpretation of the American Welding Society (AWS) Structural Welding Code D1.1. Upon completion of this class students are eligible to take the AWS practical FCAW, GTAW and/or SMAW Unlimited Tests. If passed successfully, students will be awarded the AWS Unlimited 6G welding certification. Prerequisite: WLD212.

WLD280 (variable credits)
CWE/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. Prerequisite: As a capstone course, it should be completed within the last two terms of a certificate or degree program. CWE courses require prior arrangements with faculty or the Department Chair.

WR - 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. Prerequisite: Designated placement score. 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. Prerequisites: Placement into WR90 and RD90. Course does not transfer.

WR91L
Fundamentals of Academic Literacy Lab
Lab associated with WR91.

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. Prerequisites: RD90 and WR90 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement score.

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 or WR91 (WR91 substitutes for both RD90 and WR90) or designated placement score.

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 score.

WR122 (3 credits)
English Composition II
Focuses on scholarly investigation and the proper use of sources and documentation. Major emphasis is on writing research papers that are acceptable by APA standards. Prerequisite: WR121 or designated placement score.

WR199 (variable credits)
Special Studies: Writing
Explores special topics in writing, including novel and journal writing as well as discipline-specific discourse conventions and professional preparedness. Prerequisite: WR115 or designated placement score.

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 CIS120 or documented proficiency and BT114 or WR121 or designated placement score. Recommended prerequisites: Public speaking ability is an asset; and CIS125WW and graphics ability or desktop publishing skills.

WR241 (4 credits)
Imaginative Writing I

Offers students opportunities to express themselves through literary mediums. Students study models of short stories, poetry, personal memoirs, and do original work in each of these genres. Includes analysis and discussion of students' work. Prerequisite: WR115 or designated placement score.

WR242 (4 credits)
Imaginative Writing II

Offers students opportunities to express themselves through literary mediums. Students study models of short stories, poetry, personal memoirs, and do original work in each of these genres. Includes analysis and discussion of students' work. Prerequisite: WR115 or designated placement score.

WR243 (4 credits)
Imaginative Writing III

Offers students opportunities to express themselves through literary mediums. Students study models of short stories, poetry, personal memoirs, and do original work in each of these genres. Includes analysis and discussion of students' work. Prerequisite: WR115 or designated placement score.

First RCC Board, 1980s

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Administration

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Juan Rivera
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Judy Basker, Executive Director

Management, Faculty, and Staff

www.roguecc.edu/Directory

Hollie Adair
Transition Specialist, TRIO - EOC (Educational Opportunity Center); ROC (Rogue Opportunity Center); B.A., English and Secondary Education, University of North Dakota, Grand Forks, 2003 magna cum laude; M.A., Counseling, University of North Dakota, Grand Forks, 2013

Tamara Adams
Administrative Assistant III, Counseling and Advising; Financial Aid Assistant, Foundation; A.A.O.T., Business and Education, Rogue Community College, Grants Pass, 2013; A.G.S., General Studies, Rogue Community College, Grants Pass, 2013; B.S., Innovation and Leadership, Southern Oregon University, Ashland, summa cum laude magna cum laude, 2018

Corrie Alexander
Faculty, Science; B.S., Biology, Oregon State University, Corvallis, 2000; M.S., Science Education, Oregon State University, Corvallis, 2002; M.S., Biology, University of Nebraska at Kearney, Kearney, 2015

Ernie Alloway
Buildings & Grounds Maintenance Worker, Facilities and Operations

Richard Amneus
Contract Specialist, Contracts and Procurement; B.S., Business Administration, Marketing Advertising Indiana University, Bloomington, 1981

Andie Anderson
Director of Apprenticeship, M.S.W. in Community, Organization, Planning, and Administration, University of Southern California School of Social Work, 2015

Brandon Atkins
Faculty (ABS) and STEP (SNAP Training and Employment Program) Coordinator, Adult Basic Skills; M.A., Philosophy, San Jose State University, San Jose, 2010

Kati Averyt
Assistant Director, Human Resources; A.A.O.T., General Studies, Rogue Community College, Grants Pass, 2009; B.S., Business Management, Western Governors University, Salt Lake City, 2016; M.S., Management and Leadership, Western Governors University, Salt Lake City, 2018

Dillon Ayers
Media Specialist II, Instructional Media

Robert Bagwell
Faculty, Business Technology; B.S.C.S., Computer Science, California State University- East Bay Hayward, Hayward 1985; M.B.A., Business Administration, University of Phoenix, San Ramon, Honors, 1995; Certificates: Certified Information Privacy Professional (International Association of Privacy Professionals), 2007. Certified Professional Webmaster - World Organization of Webmasters, 2013.

Emily Barber
Test Proctor II, Testing Center

Amanda Baird
Human Resources Specialist II, Human Resources

Sadie Barr
Academic Advisor, Counseling and Advising; B.S., Human Development & Family Sciences, Oregon State University, 2014; Yoga and Social Justice Teaching Certificate

Makiko Barrey
Faculty, Counseling and Advising; B.S., Psychology, Southern Oregon University, Ashland, 2005; M.S., Mental Health Counseling Applied Psychology, Southern Oregon University, Ashland, 2008

Lucia Bartscher
Human Resources Specialist II, Human Resources

Judy Basker
Executive Director, RCC Foundation; B.A., Communication Arts, University of San Francisco, cum laude 1978; D.J., Law, Willamette University, Salem, 1981

Janet Basney
Director, TRiO ROC ETS, TRiO Projects EOC/ETS; A.A.O.T.A.S., Human Services, Southwestern Oregon CC, Coos Bay, Phi Theta Kappa, 2001; B.S., Anthropology/ Sociology, Eastern Oregon University, La Grande, 2008; M.S., Psychology, Walden University, 2015

Kimberly Bell
Administrative Assistant III, Allied Health Occupations; B.S., Business Administration, Southern Oregon University, Ashland, 2013; A.S., Business Administration Transfer, Rogue Community College, Grants Pass 2011; Certificates: Community Health Worker, Spring 2014/2015. Certificate of Human Resource Management, 2013

Robert Bigelow
IT-Help Desk Technician, IT-Help Desk Staff Computers; A.S., Computer Programming and Software, Rogue Community College, Grants Pass, 2014

Rob Blevens
Building and Grounds Maintenance Worker, Facilities and Operations

Mary Ann Blinkhorn
Faculty, Science; B.S., Biology (Wildlife), Missouri State University, M.S. Biology, Missouri State University

Paul Boothroyd
Faculty and Co-Department Chair, Automotive Technology; A.A.S., Automotive Technology, De Anza Community College, Cupertino, magnacum laude, 1978; Certificates: ASE Master Technician, current for the last 37 years. GM Master Certified Technician, 27 years. Honda Certified Technician, 20 years. Nissan Certified Technician, 15 years.

Laura Bowles
Program Coordinator I, Educational Partnerships; A.A.S., Business Technology, Rogue Community College, Grants Pass, Phi Theta Kappa, President's List, Dean's List, 2013; A.A.S., Business Technology, Marketing, Rogue Community College, Grants Pass, Phi Theta Kappa, President's List, Dean's List, 2013; Certificates: Business Assistant Certificate, 2013.

Karl Brake
Faculty and Department Chair, Director of Galleries, Visual Arts and Design; A.A., Liberal Arts, College of Southern Idaho, Twin Falls, 1981; B.F.A., Visual Art, Boise State University, Boise, magna cum laude, 1983; Graduate Study, Fine arts-Painting, School of Visual Arts, New York City, Graduate Scholarship, 1984; M.F.A., Drawing and Painting, Utah State University, Logan, Graduate Fellowship in Creative Research and Activity, 1988

Logan Bransfield
Specialist, Enrollment Services; B.A., English, Portland State University, Portland, 2015

Sheri Bransfield
Procurement Specialist, Purchasing; A.A., Accounting, Rogue Community College, 1996; Business Assistant certificate, 1996

Margaret Brewer
Faculty, Nursing; A.A.S., Nursing, Harry S Truman City College of Chicago, 1985; B.S.N., Nursing, Southern Indiana University, Evanston, 2007; M.S.N.L., Nursing Leadership, Grand Canyon University, Phoenix, 2009; M.S.N., Post Graduate Certificate In Healthcare Simulation, Boise State University, 2019

Brenda R. Bridges
Financial Aid Specialist, Financial Aid; B.S., Willamette University, 1991; M.A., Interdisciplinary Studies, Oregon State University, 1993

Sara Bristol
Digital Media and Marketing Specialist, Marketing; B.A., Communication, Journalism, Southern Oregon University, Ashland, Cum laude, 1999

Kari M Brooks
Library Specialist II; Library; B.A., Cultural Anthropology, UCLA-University California at Los Angeles, Los Angeles, 1988

Rachelle Brown
Assistant to the President-Governance, President's Office, B.A. Media Studies, The Pennsylvania State University, State College; 2012

Michael Bullard
Faculty, Manufacturing Engineering Technology and Mechatronics; A.A.S, Manufacturing Engineering Technology, Rogue Community College, Grants Pass, Honor Roll 2014 2017; A.A.S, Welding Technology, Rogue Community College, Grants Pass, 2014

Elijah Bunnell
Faculty, Mathematics; B.S., Mathematics, Southern Oregon University, Ashland, 2006; M.S., B.S. Mathematics, Oregon State University, Corvallis, 2009

Candace Bunow
Veterans Coordinator, Veterans Services, B.S., Psychology, Liberty University, Lynchburg, Virginia, 2014

Jennifer Burkes
Administrative Assistant III, Instructional Services; B.A., English Creative Writing Emphasis, Southern Oregon University, Ashland, 1996

Elizabeth Butler
Internet Strategist, Marketing; A.G.S., Marketing, Rogue Community College, Grants Passs, 2016; Certificates: Digital Graphics Design, 2002. Web Development: Website Assistant, 2015, Website Development, 2016, Website Design, 2016, Graphic Design: Adobe Applications Technician, 2016

Paula Calcaterra
Nursing Department Chair, Nursing (ADN); A.S.N., Nursing, Cumberland County College-now Rowan, Vineland, 1977; B.S.N., Nursing, Stockton State College-now Stockton University, Galloway Township, 1982, M.S.N., Advanced Practice Nursing/Nursing Education. Widener University, West Chester, 1987; Certificates: Nationally Certified Nurse Educator, 2005; Clinical Nurse Specialist, 1988

Denise J. Caldwell
Driver Education Training Services Coordinator, Continuing Education-Driver Education; A.A.O.T., General Studies, Rogue Community College, Grants Pass, Honors, 1995; ODOT Certified Driver Education Instructor, 2019

Jan Carpenter
Program Support Specialist V, Adult Basic Skills; A.A.O.T, Sociology, Rogue Community College, Grants Pass, 2017; A.G.S., Business, Front Range Community College, Fort Collins, Phi Theta Kappa, 2012

Marie Chandler
Accountant II, Budget Financial Services; B.S., Business Administration—Accounting, University of Montana, Missoula, 1980; Certificates: Certified Public Accountant

Thayer Chandler
Dean of Instruction, General Education and Transfer; B.A., Anthropology, University of Oregon, 2005; MA.E., Education, Ottowa University, 2007

Kevin Chavez Martinez
Transition Specialist, TRiO ETS; B.S., Psychology, Southern Oregon University, Ashland, 2017

Andrew Childress
Coordinator, Disability Services; B.A., Theater, San Diego State University, San Diego, 1998; M.S., Rehabilitation Counseling, San Diego State University, San Diego, Thelma J. Manjos Outstanding Student Award, 2002

Tiffany Clarkin
Faculty and Department Chair, Massage Therapy; B.A., Biology with Human Biology emphasis, California State University-Hayward, Hayward, 1990; Certificates: Physical Therapy Aide Certification, 1985. Swedish Esalen Massage Therapy Certificate, 1993. Oregon Licensed Massage Therapist, 1994

Debora Coen
Faculty/Writing Coordinator, Humanities; B.A., English and Italian, The University of Texas at Austin, Austin, magna cum laude, English Honors, Liberal Arts Honor, Phi Theta Kappa, 1998; M.A., English, University of Oregon, Eugene, 2000

Amanda Comer
Veteran's Specialist School Certifying Official, Veterans Services; A.A.S. Business Technology, Rogue Community College

Sandy Contreras
Library Specialist I, Library Services

Gray Conway
Facility Coordinator, ABE/GED/ESL; Facilities, Risk Management

Robert Cook
Applications Programmer/Analyst I, IT Programming Services; B.S., Computer Science, Southern Oregon University, Ashland, 2010

Natalie H. Coppedge
Student Records Specialist, Student Records; B.A., Human Communication, Southern Oregon University, Ashland, 2003; M.A., Management, Southern Oregon University, Ashland, 2010

Leslie Cox
Institutional Research Analyst I, Institutional Research, Effectiveness, and Planning

Amber Crews
Financial Aid Specialist, Enrollment Services

Danielle Crouch
Director, Enrollment Services; B.S., Business Administration—Management, Southern Oregon University, Ashland, 2001

Steven Crum
Faculty, Science; Ph. D., Evolution, Ecology & Organismal Biology, University of California, Riverside, 2017

Molly Darling Roque
Administrative Assistant, Enrollment Services; A.A., Liberal Arts and Sciences, Las Positas Community College, Livermore, magna cum laude, 1999; B.A., Computer and Video Imaging, Web Design, Cogswell Polytechnical College, San Jose, magna cum laude, 2003

Sharon Davis
Faculty, Computer Science

Ted Daw
Faculty, Diesel Technology

Fredrick DeLong
Network Administrator, Network Services

Dean Denison
Buildings and Grounds Maintenance Worker, Facilities and Operations

Forrest Denison
Assistant Lead Redwood Campus Facilities/ Operations Assistant Lead, Facilities and Operations

Marvin Dennis
Automotive Lab Technician, Automotive

Jake Denton
Payroll Specialist, Human Resources; A.A.O.T., General Studies, Linn-Benton Community College, Corvallis, 2008; B.S., Business Administration-Management, Oregon State University, Corvallis, 2010

Deborah Dice
Accountant II (Budget), Budget and Financial Services

Carmela DiLeva
Secretary III, Administrative Assistant III Instructional Services; B.A., Psychology, University of California Irvine, Irvine, 1978

Arlene Dowell
Administrative Assistant III, Humanities

Annie Droullard
Faculty, Mathematics; B.S., Mathematics, George Fox University, Newberg, summa cum laude, 2000; M.S., Mathematics, Oregon State University, Corvallis, 2002

Amy Durst
Assistant to the Vice President, Instruction, Instructional Services Administration; B.A., Music, Western Kentucky University, Bowling Green, 2003; M.S., Management Leadership, Western Governors University, Salt Lake City, 2017

Kori Ebenhack
Vice President of Student Services, Chief Student Services Officer (CSSO); A.A., Butte Community College, 1983; B.A., Psychology, Rice University, 1986; M.A., Psychology, California State University, Chico, 1988; Certificates: Myers-Briggs Trainer, 1992; Mediation/Conflict Resolution, 2005; Enrollment Management, 2010; Intercultural Development, 2019

Katilyn Eccleston
Disability Services Specialist, Disability Services; A.A.O.T., Psychology, Rogue Community College, Grants Pass, 2011; B.S., Psychology, Southern Oregon University, Ashland, 2013; B.S., Sociology, Southern Oregon University, Ashland, 2013

Travis Ellerman
Mail/Receiving Lead, Shipping and Receiving

Curt Erikson Ph.D.
Faculty, Social Sciences/Human Services; Ph.D., Counseling Psychology, Pacific States University in alliance with UC-San Diego, San Diego, 1975; M.S., Counseling Psychology, Chapman University, Orange, 1970; B.S., Biology/Psychology, Northern Arizona University, Flagstaff, Beta Beta Beta Biological Honorary Fraternity, 1965

Frankie Everett
Director, Financial Aid; B.A., Health, Linfield College, McMinnville, cum laude, 2002; M.A., Teaching, Oregon State University, Corvallis, magna cum laude, 2003

Allison Fahrner
Faculty, Nursing

August Farnsworth
Dean of Student Success, Student Success; J.D., Law, Pepperdine University School of Law, Malibu, 1991; B.A., Government Prelaw, University of Texas at Austin, Austin, 1988

Alesha Farrar
Administrative Assistant III, Counseling and Advising; A.A.S., Business Technology, Rogue Community College, Grants Pass, 2017; Business Assistant, 2017

Kevin Fay
Facilities and Operations Assistant (Lead Electrician), Facilities and Operations

Robert Felthousen
Faculty and Department Chair, Library; A.A.O.T., Humanities, Rogue Community College, Grants Pass, Phi Theta Kappa Honor Society, 2001; B.A., Writing, Southern Oregon University, Ashland, summa cum laude, 2004; M.L.I.S., Library and Information Science, University of Washington, Seattle, 2006

Justin Ferrel
Courier/Receiving Specialist, Shipping/ Receiving

Daisy Fields
Administrative Assistant III, Continuing Education; A.A.S., Business Administration/ Management, Rogue Community College, 1996, Computer Software Specialist, Business certificate, 1996; Computer Software Specialist, Graphics certificate, 1996

Julia Fisher
Faculty, Program Coordinator of Counseling Services and Referrals, Counseling and Advising; B.S., Psychology, Oregon State University, Corvallis, cum laude, 2005; M.S., Mental Health Counseling, Oregon State University, Corvallis, 2006; Certificates: Licensed Professional Counselor (LPC), 2006; Nationally Certified Counselor (NCC), 2012

David Fleming
Help Desk Technician, Information Technology; B.A., Psychology, U.C. Santa Cruz, Santa Cruz, 1988; A.S., Computer Support Technician/HCI, Rogue Community College, Grants Pass, President's List, 2015

Hector Flores Aguirre
Faculty and Department Chair, Diesel Technology

Steve Foster
Faculty and Department Chair, Manufacturing Engineering Technology; A.A.S., Manufacturing Engineering Technology, Rogue Community College, Grants Pass, 2000; Certificates: Haas CNC Programming - MILL, 2000; Haas CNC Programming - LATHE, 2000; MasterCam CNC Mill, Sabin Institute, 2000; High Technology Studies, 2000; Variation Reduction Kaizen, Danaher, 2007; Creaform HandySCAN700 3D Laser Scanner, 2017; CNC Operator/Technician, 2019; MSSC-CPT, Safety, 2019; MSSC-CPT, Quality Practices & Measurement, 2019

Xandria Rae Fowler
Library Specialist II (Processing), Library; A.A.O.T., Transfer Degree, Rogue Community College, Grants Pass, PTK, 2005

Bea Frederickson
Administrative Assistant III, Instructional Services; B.A., Education (English, German, Math), Central Washington State College, Ellensburg, 1965

Kim Freeze
Dean of Science, Art & Technology, Instructional Services; Ph.D., Clinical Psychology, California Southern University, Costa Mesa, summa cum laude, 2019; M.S., Human Behavior, National University, Redding, magna cum laude, 2015; B.A., Organizational Leadership, Simpson University, Redding, 2013; Certificates: 200 RYT Yoga Trainer, 2015; New World of Work 21st Century Skills Trainer, 2016; NACCE Entrepreneurship Specialist, 2017; Career Coach, 2018; Icehouse Entrepreneurship Trainer, 2020

Kiersta Fricke-Gostnell
Faculty and Department Chair, Adult Basic Skills (ABS) English Language Acquisition (ELA); B.A., Literature and Film, Hampshire College, School of Humanities and Arts, Amherst, 1982; M.A., Professional Studies, Education and Technology, New York University, Tisch School of the Arts, Interactive Telecommunications Program, New York, 1990; Certificates: TESOL June 2010

J. Nadean Friesen
Bookstore Specialist IV, Bookstore

Michael Friesen
Faculty, Industrial Welding Technology

Jodie L Fulton, CPPO, CPPB
Manager, Director, Contract and Procurement; A.A.S, Music, Southern Oregon University, Ashland, 1984; B.S., Liberal Arts, Linfield College, McMinnville, 1992; Certificates: Human Resource Management, Linfield College, McMinnville, 1992; Certified Professional Public Buyer, 2014. Certified Public Procurement Officer, 2014

Jill Galusha
Human Resources Specialist II, Human Resources

Svetlana Gamble
Applications Programmer/Analyst II, Information Technology/Programming Services; B.S., Economics and Management, Vladivostok State University of Economics and Services, Russia,1994; M.S., Management Information Systems, Far-Eastern State Technical University, Russia, 1989

Angel Garcia
Transition Specialist, TRIO ETS; B.A., English Literature and Psychology, Southern Oregon University, Ashland, 2000

Doug Gardner
Faculty and Department Chair, Mathematics; B.S., Mathematics, University of Oregon, Eugene, cum laude, 1988; M.S., Mathematics Education, University of Oregon, Eugene, cum laude, 1990

Todd Giesbrecht
Faculty and Department Chair, Welding; A.S., Welding, Rogue Community College, Grants Pass, 1986; Certificates: AWS Unlimited 6010, 7018, FCAW All Position, AWS 6G 6010, 7018, ASME Section 9 6G 6 Inch Pressure Welder; ASME Section GTAW 6G 2 Inch

Erika Giesen
Faculty, Social Science & Human Services; B.A., Gender Studies, Lewis and Clark College, Portland, 1996; M.A., Women's Studies, University of Arizona, Tucson, 2001

Analisa Gifford
Student Records Specialist, Enrollment Services; B.A., Sociology, University of Oregon, Eugene, 2004

Sierra Gilkey
Accounting Specialist I (Banking), Budget & Financial Services, B.S., Accounting, Western Governors University, Salt Lake City, 2020

Marilyn Gill
Program Support Specialist, Adult Basic Skills

Julie Giomi-Brown
Bookstore Specialist II, Bookstore

Betty Glazier
Data Management Specialist II, TRiO EOC ETS; B.A., Mathematics, State University of New York at Oneonta, Oneonta, 1966; Certificates: Permanent teaching certificate for Mathematics in State of New York after 1 year of post-graduate study at State University of NY at Albany 1967

Eric Gomez
Maintenance Custodian

Ronald Goss
Director, Small Business Development Center; B.S., Civil Engineering, Stanford University, Palo Alto, 1977

Kenton Gould
Training Services Coordinator, Continuing Education; B.A., Music, Performance, California State University, Long Beach, 2008

Joyce E. Graham
Faculty, Business Technology; M.A., Communication Arts, University of Wisconsin, Madison, magna cum laude, 1982; B.A., English, University of California, Berkeley, Berkeley, magna cum laude, 1980

Shaylee Graham, LCSW
Faculty, Counseling Department. SOHOPE. B.A., Portland State University, Portland, 2012; M.S.W., Portland State University, Portland, 2014; Certificates: LCSW, 2018

Michelle Gray
Faculty, Counselor/Department Coordinator, Human Development and Career Guidance, Counselor/Faculty, Counseling and Advising; B.S., Psychology, Southern Oregon University, Ashland, 2004; M.S., Psychology, Mental Health Counseling, Southern Oregon University, Ashland, 2006

Danielle Green
Help Desk Technician, IT Help Desk; A.A.S., Computer Support Technician, Rogue Community College, Grants Pass, 2012

Heather Green
Training Services Coordinator, Continuing Education Community Education

Pamela Green
Program Specialist, University Transfer -TRiO Student Support Services; A.S., Business Administration Management, Rogue Community College, Grants Pass, 1988; B.S., Business Management, Northwest Christian University, Eugene, magna cum laude, 1997, 2007; M.S., Business Administration, Northwest Christian University, Eugene, magna cum laude, 2010

Nikolaus Grimsby
Library Specialist I, Library Services

Laura Haga-Duffy
Director Bookstore and Shipping/Receiving, Bookstore, Shipping and Receiving; B.S., Business Management, Western Governors University, Salt Lake City, 2016; M.S., Management and Leadership, Western Governors University Salt Lake City, 2017

Sherrie Hamner
Maintenance Custodian, Facilities and Operations

Cindy L Harboldt
Administrative Assistant III, Criminal Justice, ROLEA, EMS, Fire Science

Angela Harelson
Administrative Assistant I, Disability Services; A.A.O.T., General Studies, Rogue Community College, Grants Pass, 2000; A.A.S., Human Services, Rogue Community College, Grants Pass, 2004

Heidi Lee Harless
Faculty and Department Chair, Visual Arts and Design, B.A., Humanities European Studies, San Jose State University, San Jose, magna cum laude, 1995; A.A., Visual Communications, Art Institute of Seattle, Seattle, President's Award, 1998; M.A., Teaching, Arts Education, Southern Oregon University, Ashland, summa cum laude, 2008; Certificates: Fulbright Scholar Germany, 2015

Brett Harrington
Transition Specialist, TRiO ROC- Rogue Opportunity Center; B.A., English Literature - Creative Writing, University of Houston, Houston, Howard Moss Poetry Prize, 2006, 2007; M.F.A., Creative Writing-Poetry, University of Arkansas, Fayetteville, 2011; Certificates: Teaching English as a Second Language (TESL), 2014

Jamee Harrington
Chief Human Resources Officer, Human Resources; B.S., Human Communication, Southern Oregon University, Ashland, cum laude, 2010; M.S., Management and Leadership, Western Governor's University, Salt Lake City, 2017; Certificates: SPHR

Matt Haugen
Faculty, Mathematics; BS, Mathematics, California State University, Chico, 1999; MS, Mathematics, Oregon State University, Corvallis, 2005

Gary Heigel
Faculty and Department Chair, Emergency Services; Masters of Adult Education & Training, Colorado State University, 2020; B.A., Human Resources Management, George Fox University, Newberg, OR 1992; A.A.S., Paramedicine, Oregon Health & Sciences University, Portland, 1984

Cynthia Henney
Administrative Assistant III, Instructional

Jeanine Henriques, Ph.D.
Faculty and Department Chair, Criminal Justice; Dean of Curriculum and Academic Excellence, Instructional Services; Ph.D., Public Safety specializing in Criminal Justice, Capella University, Minneapolis, 2010; M.A., Business Organizational Leadership, Vanguard University of Southern California, Costa Mesa, 2005; B.A., Business, Vanguard University of Southern California, Costa Mesa, 2001, 2003

Natalie Herklotz,
Assistant Director, Budget and Financial Services; A.A.O.T., Transfer, Rogue Community College, Grants Pass, 1996; B.S., Accounting, Western Governors University, Salt Lake City, 2015

Matt Holben
Specialist, Student Services for Students; B.S., Emerging Media and Digital Arts, Southern Oregon University, Ashland, summa cum laude, 2018

Anna Holst
Program Specialist, TRiO Student Support Services; B.S., Innovation and Leadership, Southern Oregon University, Ashland, cum laude, 2018

Diane Hoover, Ph.D.
Director, Workforce Training Continuing Education (AHA, CE, Driver's Training, WFT);Director, Continuing Education and Workforce Training, Community Education; B.A., Healthcare Administration, Oregon State University, Corvallis, 1983; M.S., Public Administration, Old Dominion University, Norfolk, 1991; Ph.D., Human Services, Capella University, Minneapolis, 2008

Grant Hubler
Applications Programmer/Analyst II, IT Programming Services; B.S., Software Engineering, Oregon Institute of Technology, 1998

Peggy Hull
Faculty, Social Science; M.S.W., Social Work, Portland State University, Portland, 2007; Certificates: Member NASW. Member MHREN

Karli Huntley
Academic Advisor, Student Success; B.A., Psychology, National University, Redding, 2015

Jim Hurst
Maintenance Lead Table Rock Campus, Facilities and Operations

Andrew Huston
Instructional Technology Administrator II, Instructional Media; A.S., Computer Networking, Rogue Community College, Grants Pass, 2004; Certificates: PC Microprocessor Systems Technician, 2004

Michael Hutchison
Maintenance Custodian, Facilities and Operations

Dana Jacklin
Administrative Assistant IV, Small Business Development Center

Trina Janssen
Administrative Assistant III, TRiO ETS/ ROC; A.A., Psychology, College of the Siskiyous, Weed, 1991; B.S., Psychology, Southern Oregon University, Ashland, Psi Chi-The National Honor Society in Psychology, 1994

Felishia Jenkins
Faculty/Reference and Instruction Librarian, Library; B.A., Literature/Writing, UC San Diego, San Diego, 2004; M.S., Library Services, San Jose State University, San Jose, 2011

Timothy Jenkins
Data Management Specialist II, TRiO SSS

Randi Jiron
Disability Services Specialist, Disability Services; A.A., Business, San Joaquin Delta College, Stockton, 1978; B.S.B., Information Systems, University of Phoenix, Phoenix, magna cum laude, 2001; M.B.A., Technology Management, University of Phoenix, Phoenix, 2007

Nikki Johnson
Veterans Coordinator, Director of Veterans Services, Student Services Veterans Services; B.S., Business and Health Physical Education, Colorado Christian University, Lakewood, 1998; M.B.A., Business Administration, Northwest Christian University, Eugene, 2016

Jessica Jones
Financial Aid Specialist, Financial Aid; A.A.O.T., General Studies, Oregon Tech, Klamath Falls, 1996

Wendy Jones
Risk Management Coordinator, Risk Management

Chelsea Kelsey-Hamilton
Assistant to the Dean, Arts and Letters; Office Administration Certificate, Rogue Community College, Grants Pass, 1991; Office Assistant certificate, RCC, Grants Pass, 1992

Cathy Kemper-Pelle, Ed.D.
College President, President's Office; A.S., General Studies, Illinois Central College, E. Peoria, 1975; B.S., Biological Sciences, Illinois State University, Normal, 1977; M.S., Biological Sciences, Illinois State University, Normal, 1980; Ed.D., Higher Education Administration, The University of Texas, Austin, summa cum laude, 2005

Carmen Kennedy Sumner
Assistant Director, Marketing; B.A., Journalism/Public Communication, University of Alaska, Anchorage, 1994

Denise Kerr
Data Management Specialist II, Curriculum and Scheduling; B.A., Speech Communication, French Minor, Portland State University, Portland, 1990; A.A.S., Business Technology, Accounting Option, Rogue Community College, Grants Pass, 2017

Nicole Kieffer
Administrative Assistant III, Student Life Student Success; B.S., Sociology, Southern Oregon University, Ashland, 2008; M.S. M.A., School Counseling, Northwest Christian University, Eugene, 2012

Chauncey Kieley
Director of Advising and Compliance and Deputy Title IX Coordinator, Student Services; B.S., Sociology and Criminology, Southern Oregon University, Ashland, summa cum laude, 2006; J.D., Law, Arizona Summit Law School, Phoenix, cum laude, 2012 2011

Anthony Knight
Faculty, Manufacturing Tech, Industrial Welding; A.A.S., Industrial Welding Technology, Rogue Community College, Grants Pass, 2016; A.A.S., Manufacturing Engineering Technology, Rogue Community College, Grants Pass, 2016

Nikki Koenig
Academic Adviser I, Counseling and Advising; A.A.S., Business Technology, Rogue Community College, Grants Pass, Phi Theta Kappa, 2009

Jennifer Konarske
Faculty and Coordinator, Medical Assistant Program, Allied Health Occupations; B.S., Health and Physical Education, Southern Oregon University, Ashland, summa cum laude, 2018 2019; A.A.O.T., Health and Physical Education, Rogue Community College, Grants Pass, 2017; Certificates: Medical Assistant (ARMA)/Current, Field Medical Service Technician (USN), 2012

Kristi Kowalski
Faculty, Adult Basic Skills A.A.O.T., Oregon Transfer, Rogue Community College, Grants Pass, 1997; B.A., International Studies, George Fox University, Newberg, cum laude, 1999; M.A.T., Middle Secondary LA, Southern Oregon University, Ashland, 2007

Grant Lagorio
Director, Facilities and Operations

Kent Lane
Diesel Service Technician, Diesel Technology

Carylyn Later
Test Proctor I, Counseling and Advising; A.A.O.T., Rogue Community College, Grants Pass, 2010

Michael Lauterio
Groundskeeper, Facilities and Operations; A.A.O.T., Biological Sciences, Rogue Community College, Grants Pass, 2019

Shauna Law
Financial Aid Specialist, Financial Aid

Michael Lawrence
Network Administrator, IT-Network Services; A.A., Computer Science, Rogue Community College, Grants Pass, 2000; B.S., Information Technology, University of Phoenix, Phoenix, 2006

Jeanne Lee
Facilities Office Coordinator, Facilities and Operations; B.A., Applied Math, Computer Science, Spanish, Western Michigan University, Kalamazoo, 1981

Sonia Lemacks
Transition Specialist, TRiO TS; B.S., Psychology, Southern Oregon State College, Ashland, 1992; M.S., Counseling, Oregon State University, Corvallis, 2002

Juliet Long
Vice President of Instructional Services/ CAO, Instructional Services; B.S., Computer Science/CIS, Southern Oregon State College, magna cum laude, 1994; M.A., Education, University of Phoenix, Phoenix, 2001 2000; M.Ed., Educational Leadership, Concordia University, Portland, 2019

Nicole Longoria
Transition Specialist, Admissions and Recruitment; B.S., Social Science, Western Oregon University, Monmouth, 2015

Nichole Lott
Science Lab Technician III, Science; B.S., Biology, University of Oregon, 1999

Amy Lukens
Completion Specialist-Lead, SOHOPE (Southern Oregon HOPE grant); M.A., Geography/Small Town & Rural Planning, CSU Chico, Chico, 2011; B.A., Geography, San Francisco State University, San Francisco, 2007

Lori Lundine
Faculty and ABS Lead Instructor, Adult Basic Skillsr; B.S. Biology, University of Redlands, Redlands, 1986; M.A. Biology, Biology Genetics, California State University, Dominguez Hills, 1996

Paula Lupini Brooks
Administrative Assistant III, Instructional Services, Diesel, Electronics, MFG, Mechatronics, and Welding; A.A., Focus in Communication. Olympic College, Bremerton, Phi Theta Kappa and National Dean's List, 2007; Certificates: Business Assistant, Rogue Community College, 2013

Anthony Mackey
Science Lab Technician I, Science

Bart Madson
Bookstore Specialist I, Shipping and Receiving Clerk, 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. M.Ed., Adult Education, Oregon State University, Corvallis, 2002 2000; B.A.,B.S. Business Management, Northwest Christian University, Eugene, cum laude, 2000 1997; A.A.S., Electronic Office Technology, Rogue Community College, Grants Pass, 1996; Certificates: Business Assistant/Computer, RCC, 1994; Legal Office Assistant, RCC, Grants Pass, 1994

Tiffany Malsberger
Transition Specialist, Admissions and Recruitment; B.S., Human Services, Southern Oregon University, Ashland, 2016

Anna Manley
Foundation Support Specialist Development and Resource Allocation, RCC Foundation; 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, IT-Network & User 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

Alex Markov
Faculty, Humanities and Communications; B.A., Communication Studies, Northwestern University, Evanston, 2008; M.A., Communication, University of California, Santa Barbara, Santa Barbara, 2011

David Masters
Faculty, Visual Arts and Design; M.F.A., Fine Art, Kent State University, Kent, 2013; A.A., Creative Media, New Mexico State University, Las Cruces, Crimson Scholar, 2009; B.F.A., Fine Art, The School of the Art Institute of Chicago, Chicago, 2007

Barbara McAuley
Program Coordinator I, 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; 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; Microsoft Windows 7:Enterprise Desktop Admin, 2012; Managing Office 365 Identities and Services, 2015; Vanderbilt Lock Systems, 2016; David West Seventh Generation Diversity Award, 2018

Vicki McCrary
Assistant to the President-Operations, President's Office

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 and Department Chair, Electronics; A.A.S., Electronics, Rogue Community College, Grants Pass, summa cum laude, 1995; B.A., Management, Northwest Christian College, Eugene, summa cum laude, 1999; M.Ed., Adult Education, Oregon State University, Corvallis, summa cum laude, 2003; Certificates: International Society of Certified Electronics Technicians (ISCET), 1996 1995

Rene McKenzie, Ph.D.
Director, Student Programs; B.A., Business Management, Northwest Christian University, 2002; Ed.M., M.S., Adult Education, Oregon State University, Corvallis, 2008; Ph.D., Philosophy and Community College Leadership, OSU, Corvallis, 2015; Certificates: Computer Analyst Certificate, Rogue Community College, 1992

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, 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

Rosalyn Mendoza
Administrative Assistant III, President's Office; B.A., Spanish, University of Oregon, Eugene, 2013

Kathy Meyer
Faculty, Practical Nursing; B.S.N., Nursing, San Diego State, San Diego, 1986; Certificates: Registered Nurse, 1986

Mary Middleton
Faculty, Mathematics; M.S., Applied Mathematics, University of Colorado, Colorado Springs, cum laude, 2001; B.A., Mathematics, Fort Lewis College, Durango, 1999

John Miles
Building and Grounds Maintenance Worker and IPM Coordinator, Facilities and Operations; B.S., Organizational Leadership, Azusa Pacific University, Azusa, cum laude, 2007; A.A., English, Fullerton College, Fullerton, 1975; Certificates: Landscape Management, 1979; Public Pesticide Applicator, 2013; Ford Institute Leadership Program, 2016; Emergency Medical Responder, 2017; CERT, 2015; Firefighter 1, 2020

Rhonda Misner
Department Chair and Faculty, Health, PE and Recreation (HPER); 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

Camille Mitchell
Science Lab Technician I, RVC Science
Linfield College: Major business administration; American Institute of Banking; Basic certificate; 1966
SOSC: General studies/minor library science, Rogue Community College, Grants Pass; AGS, computer science/physical science, 1995; Phi Theta Kappa honor society, 1993

Ryanne Mitchell
Graphics Specialist, Marketing; B.F.A., Graphic Design/Illustration, Oklahoma State University, Stillwater, 1996

Andrew Mobbs
Program Coordinator, Student Employment Services; B.A., Writing, University of Central Arkansas, 2005; M.A., Teaching English as a Second Language, Northern Arizona University, 2015; Graduate Certificate, Communication Studies, Northern Arizona University, 2019

Carmen Mons
Faculty and Training Services Coordinator, Dental Assistant program, Allied Health Occupations

Layne Morell
Academic Advisor II, TRiO Student Support Services; B.A., Economics, University of Washington, Seattle, 1992; M.B.A., Business, Southern Oregon University, Ashland, 2019

Peggy Mosley
Maintenance Custodian Lead, 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
Financial Aid Specialist, 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 of College Services, College Services Administration; Certificates: Graduate, International Airline Academy, ACCSC, 1981

Casey Nolen
Web Development Specialist, 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

Rachel Ostroskie
Assistant to the Dean, Student Success, Student Services; A.G.S., General Studies, Rogue Community College, Grants Pass, 2016; B.S., Innovation and Leadership, Southern Oregon University, Ashland, summa cum laude, 2020

Sharon Owen
Groundskeeper, Facilities and Operations

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 of Allied Health and SOHOPE, Allied Health; B.S., Sociology, Southern Oregon University, Ashland, summa cum laude, 2016; M.A., Communications and Curriculum Development, Grand Canyon University, Phoenix, summa cum laude

Rose Passione
Financial Aid Coordinator, Financial Aid Advising; B.A., Music, George Fox University, Newberg, summa cum laude, 2004

Richard Pellerin
Building and Grounds Maintenance Worker, Facilities and Operations

Amy Peterson
Lead Title IX Coordinator; Equity, Diversity & Inclusion Coordinator, Equity Diversity and Inclusion (EDI); B.A., English, University of California, Berkeley, 2015; M.Ed., Counseling, Student Affairs, Northern Arizona University, Flagstaff, 2018

Dotsie Petty
Faculty, Nursing

Charles "Chip" Phillips, Ph.D.
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 II, Testing Centers

Catherine Pierson
Apprenticeship Coordinator, Apprenticeship

Thomas Pike
Faculty, Counseling and Advising; B.A., B.S., Earth Science, Principia College, Elsah, cum laude, 1984; B.A., Business Administration, Principia College, Elsah, cum laude, 1984; M.A., Counseling Psychology, Antioch New England Graduate School, Keene, 2001; Certificates: Holotropic Breathwork Facilitator, 2002

Donna J. Plummer
Academic Advisor II, Academic Case Manager, Southern Oregon HOPE; A.A.S., Business Technology, Rogue Community College, Grants Pass, Phi Theta Kappa, Alpha Zeta Pi, 2008; B.S., Business Administration & Psychology, Southern Oregon University, Ashland, 2013

Melissa Polen
Faculty/Department Chair, 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; B.A., Psychology/Gender, Sexuality &Women's Studies, Southern Oregon University, Ashland, cum laude, 2013

Brian Proctor
Financial Aid Specialist, Financial Aid Advising for Students; A.G.S., Marketing, Umpqua Community College, Roseburg, Phi Theta Kappa, President's Honor Roll, 2013

Alissa Ramirez
Administrative Assistant III, Adult Basic Skills

Courtney Rasmussen
Institutional Research Analyst, Institutional Research, Effectiveness and Planning; B.S., Social Sciences - Human Service, Southern Oregon University, Ashland, Oregon, summa cum laude, 2017

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

Dean Rendernick
Maintenance Custodian, Facilities and Operations

Ailym Pinero Requena
Transition Specialist English Language Adquisition (ELA), Admissions and Recruitment; Intl. B.A.,M.D., Central University of Venezuela, Venezuela,1984; AGS, General Studies, Rogue Community College, 2019.

Michelle Rhodes
Program Support Specialist IV, Assistant, Dean of Curriculum and Academic Excellence, Educational Partnerships; Instructional Services; A.A.S., Business Technology, Rogue Community College, Grants Pass, 2013; Certificates: Business Assistant, 2013, Small Business Management, 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 II, Adult Basic Skills; A.A.S. Fashion Design, Fashion Design-Tailoring, Diablo Valley Community College, Walnut Creek, 1979

Rusty Riis
Faculty/Advisor, EMS Clinical Coordinator, Emergency Services; AAS-Paramedicine 2010; In-Progress- B.S. in Emergency Medical Services Administration, Eastern Oregon University; Certificates: NREMT Paramedic; Oregon Paramedic; NAMSE Instructor 1 & 2; AHA BLS Instructor; AHA ACLS Instructor

Dusty Rittenbach
Faculty & Science and Engineering Transfer Department Chair, Science; B.S., Physics and Applied Math, Walla Walla College, College Place, 1991; M.S., Physics with a minor in Biophysics and Biochemistry, Oregon State University, Corvallis, 1993

Juan Rivera
Library Specialist II, Acquisitions and Processing, Library

Daniel Rodriguez
Buildings & Grounds Maintenance Worker, Facilities and Operations; A.S., Photography, San Bernardino Community College, San Bernardino, magna cum laude, 1987; B.S., Business and Management, University of Redlands, Redlands, magna cum laude, 1992

Makenzie Rodriguez
Library Specialist I, Library Services

Laurie Roe
Director and Accreditation Liaison, Institutional Research and Effectiveness and Planning

Julie Rossi
Faculty and Director, Adult Basic Skills; B.A., Education/Humanities, Southern Oregon University, Ashland, 1986; M.A., M.S., 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; CASE Coaching, Clackamas Community College, 2013

Bill Rounds
IT Systems Technician, IT - Network & User Services; A.A.S., Computer Science, Rogue Community College, Grants Pass, Phi Theta Kappa; Honor Roll; 4.0 GPA, 2015; Certificates: Microsoft A+ Certified, 2016

Ben Russell
Electronics Lab Technician, Electronics; A.A.S., Electronics Technology, Rogue Community College, Grants Pass, PTK, 2007

Chiharu Sai (Ji Choon Choi)
Faculty, Humanities; D.M.A., Manhattan School of Music, New York, 2003; Master of Music in Piano Performance, Arizona State University, Phoenix, 1997; Doctorate of Musical Arts in Piano Performance, 2003, Manhattan School of Music; M.M.,1997, Arizona State University; B.M.,1994, Willamette University

Nicole Sakraida
Director of Admissions & Recruitment; B.A., Spanish, Seattle University, Seattle, 2004; Minor, Sociology, Seattle University, Seattle, 2004; M.Ed., Education, Universidad San Francisco de Quito, Quito, Ecuador, 2007

Tanya Salas-Gonzalez
Financial Aid Specialist, Financial Aid; A.S., Business, Rogue Community College, Grants Pass, 2020

Terrie Sandlin
Outcomes and Assessments, Instructional Design & Assessment; M.Ed., Education, Colorado State University, Fort Collins, summa cum laude; B.S., Criminology, Southern Oregon University, Ashland, summa cum laude

Teresa Schawo
Accountant II, Budget and Financial Services; B.S., Accounting, Southern Oregon University, Ashland, 1994

Jim Shaw
Faculty/Advisor, 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

Larry Sheely
Telephone Systems Administrator, IT/ Internet & Telecommunication Services

Al Sheldon
Quality Assurance and Director, IT Programming Services & Institutional Research, IT-Programming Services; B.S., Computer Science, Montana State University, Bozeman, 1985

Jennifer Shirley
Faculty, Nursing; B.A., Anthropology and French, Willamette University, Salem, 2007; B.S., Nursing, Oregon Health and Science University, Portland, summa cum laude, 2016; Masters, Nursing Education, University of Texas Arlington, Arlington, 2017

Alena Siddon
Financial Aid Specialist, Financial Aid

Jodi Simons
Director of Operations, RCC Foundation; B.A., Psychology/Sociology, Oregon State University, Corvallis, 2001; Ed.M., Adult Education, Oregon State University, Corvallis, 2013

Georgetta Smith
Test Proctor II, Academic Success

Helaine Smith
Faculty, Science

Michelle Smith
Science Lab Technician II, Science
B.S., Wildlife Mgmt, Virginia Tech, 1990
M.S., Forestry-International Resource Conservation, University of Montana, 1998

Ted Smith
Groundskeeper, Facilities and Operations
A.S.O.H., Horticulture, Rogue Community College, Grants Pass, 1979

Teri Smith
Faculty Coordinator, Allied Health Occupations, SOHOPE(Southern Oregon HOPE grant); B.A., Organizational Leadership, Northeastern University, Boston, summa cum laude, 2010; Ed.M., Adult Education and Curriculum Design, Northeastern University, Boston, 2013; Certificates: Career Development Facilitator - University of Oregon, Eugene, 1997; Graduate Certificate; Distance Learning - Northeastern University, Boston, 2013

David Snell
Web Development Specialist, Instructional Media; A.A.O.T., General, Rogue Community College, Grants Pass, 2003; B.A., Creative Writing, Pacific University, Forest Grove, magnacum laude, 2006, MS, Education, Western Oregon University, Monmouth, 4.0 GPA, 2017; Certificates: Digital Graphics Design, 2004

Sally Snyder
Assistant to the Vice President of Student Services, Diversity Programming Board Coordinator; B.A., Theater Arts, University of Oregon, Eugene, 1993; minor, Anthropology, University of Oregon, Eugene, 1993

Curtis Sommerfeld
Vice President, College Services; B.S., Management, Managerial Leadership, Northwest Christian University, Eugene, 1996; M.A., M.B.A., Business Administration, Northwest Christian University, Eugene, 2013

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

Kathy Strong
Bookstore Specialist II, Bookstore; A.A.S., Business Technology, Rogue Community College, Grants Pass, 2019

Lynda Surran
Accountant II (Grants), Budget and Financial Services; B.A., Journalism, University of Oregon, Eugene, 1980

Dorothy Swain, Ph.D.
Faculty, Science; B.S., Chemistry, University of Illinois, Champaign -Urbana, magna cum laude, 1985; MA, Chemistry, Columbia University, New York City, 1987; Ph.D., Medicinal Chemistry, University of Illinois, Chicago, 1994; MAT, Education, Southern Oregon University, Ashland, 1999

Sean Taggart
Director of Risk Management and Deputy Title IX Coordinator, Risk Management; B.A., B.S., Criminal Justice (cum laude), Sam Houston State University, 2014, M.A., M.S., Security Studies, Angelo State University, 2016; CPP Certificate

Jeremy Taylor
Faculty/Co-Chair, Computer Science; A.G.S., Human Services/Criminal Justice, Rogue Community College, 1993; B.S., Criminology, Southern Oregon University, 1996; M.S., Computer Information Science, Capella University, with Distinction, 2010; M.S., Network Architecture, Capella University, 2012; Certificates: Microsoft MCSA, MCSE, MCITP, Novell Master CNE and Cisco CCNA, A+, Network+, Security+, IT Project+, Linux+

David Thanes
Faculty, Visual Arts and Design; B.A., Fine Art, Southern Illinois University, Carbondale; M.F.A., Fine Arts Painting, University of Massachusetts, Amherst

Niki Theis-Coulter, Ph.D.
Faculty, Social Science; B.A., Microbiology-premed, Brigham Young University, Provo, cum laude, 1978; M.A., History/Psychology, Utah State University, Logan. summa cum laude, 1990; Ph.D. ABD, History/Psychology, University of Melbourne, Melbourne, Australia, 1998; Certificates: Law Enforcement Ranger Level 4-United States Forest Service; Wildland Firefighter-United States Forest Service; Structural Firefighter-Upwey Fire Brigade (Country Fire Authority, Australia)

Brian Thompson
IT Help Desk Technician, Help Desk Staff Computers; A.A.S., Computer Support Technician, Health Informatics Option, Rogue Community College, Grants Pass, 2018; Certificates: A+, 2018

Don Tiller
Media Specialist II, Help Desk; A.A.S., Computer Science, Rogue Community College, Grants Pass, Phi Theta Kappa, 2013; A.A., General Studies, Rogue Community College, Grants Pass, Phi Theta Kappa, 2014; Certificates: PC Microprocessor Systems Technician, 2012; High Technology Studies, 2012

Julie Toledo
Faculty Coordinator- Allied Health Occupations/SOHOPE; B.A Geography, Southern Oregon University, 2000
M.Ed. Career and Technical Education, Concordia University, 2020

Travis Toll
Program Specialist, Student Success; B.A., Photography/Graphic Design, Humboldt State University, Arcata, Founder/President of HSU's Graphic Design Club, 2010

Ann-Margret Trausch, Ph.D.
Faculty, Electronics; A.A.S., Electronics, Riverside City College, Riverside, 1986; B.S., Industrial Technology, Humboldt State University, Arcata, 1990; M.S., Education, emphasis in Electronic Communication, HSU, Arcata, 1992; Ph.D., Higher Education Leadership and Corporate Programs, Capella University, Minneapolis, 2008; Certificates: Instructional Design for Online Learning(IDOL), 2004; Human Performance Improvement and Training Systems(HPI), 2004 2006

Ky Travis
Faculty and Department Chair, Early Childhood Education and Elementary Education

Tyler Tull
Building and Grounds Maintenance, Facilities and Operations

Dennis Underwood
Programmer Technician, Internet Services; A.A.O.T., Rogue Community College, 2001

Verne Underwood, Ph.D.
Faculty and Department Chair, Humanities; B.A., English, University of Oregon, Eugene, Phi Beta Kappa, 1987; M.A., English, University of Oregon, Eugene, 1989; Ph.D., English, Arizona State University, Tempe, 1996

Darren Van Lehn
Athletic Director, Athletics; B.S., Sociology—Human Communication, Southern Oregon University, Ashland, cum laude, 2007; M.S., Sports Management—Athletic Administration, Southern New Hampshire University, Manchester, summa cum laude, 2017; Certificates: Career Development Facilitation Certification, 2013; Title IX Investigator, 2017

Shannon Van Lehn
Advising Program Coordinator II, Counseling and Advising; B.S., Psychology, Southern Oregon University, Ashland, 2010; M.P.A., Public Administration and Nonprofit Management, Capella University, Minneapolis, with Distinction, 2019

Svetlana Varner-Garske
Faculty, Math; M.S., Applied Mathematics, Chernivtsi State University, Chernivtsi, Ukraine, 1998

Marco Vasquez Ramirez
Career Technical Education (CTE) Transition Specialist, Admissions and Recruitment; B.A., Philosophy, Saint Xavier University, Chicago, 2014, M.A., Educational Leadership and Administration, California State University, Fresno

Cessa Vichi
Library Circulation Services Coordinator, Library; A.G.S., Two-Dimensional Art, Rogue Community College, Grants Pass, 1985

Arismendi Villa
Transition Specialist-Latino Outreach & Recruitment, Admissions and Recruitment; B.S., Health & Physical Education, Southern Oregon University, Ashland, 2019

Carla Villanueva
Academic Adviser I, Counseling and Advising; B.A., Sociology, University of Oregon, Eugene, 2013; B.A., Spanish, University of Oregon, Eugene, 2013; Certificates: TESOL, 2016

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

Grant Walker
Director/Public Information Officer, Marketing; M.F.A., Theater-Playwriting, Southern Illinois University, Carbondale, Christian H. Moe Playwriting Award, 1988; B.A., English-Writing, Portland State University, Portland, Honor Roll, 1980; A.A.S., Television Production Technology, Mt. Hood Community College, Gresham, 1977; Accreditation In Public Relations, Public Relations Society of America, 2018-21

Morgan Watkins
Administrative Assistant III, Counseling and Advising; B.A., English, Portland State University, Portland, magna cum laude, 2019

Melissa Weast
Administrative Assistant III, Nursing, Practical Nursing; A.A., Legal Administration, Oregon Institute of Technology, Klamath Falls, 1985

Luke Weber
Library Specialist I, Library Services

Barbara Wicks
Student Records Specialist, Enrollment; A.A.O.T., Rogue Community College, Grants Pass, 1995; B.S., Environmental Studies, University of Oregon, Eugene, 1998

Marita Wilder
Data Management Specialist II, Curriculum and Scheduling

Ted Willhite
Faculty, Business Technology; B.S., Chemistry, University of California at Berkeley, Berkeley, Honors, 1974; M.B.A., Finance, Santa Clara University, Santa Clara, Beta Gamma Sigma, Honors, 1984

Richard Charles Williams
Faculty, Humanities; European Politics and Literature Program, University of Bradford, England, 1987-1988; B.A., Political Science, CSU, Northridge, 1989; M.A., English, Humboldt State University, 1998; M.A., Religious Studies, University of Wales, Trinity St. David, 2011

Sarah Wofford
Accounting Specialist II (Accounts Receivable), Budget Financial Services; A.G.S., General Studies, Rogue Community College, Grants Pass, Phi Theta Kappa, 2011

Angel Woods
Administrative Assistant II, Marketing; A.A.O.T., Computer Science/Graphic Design, Rogue Community College, Grants Pass, Phi Theta Kappa, 2009; A.G.S., Business, Rogue Community College, Grants Pass, Phi Theta Kappa, 2008

Bernyne Wright
Financial Aid Advisor, Financial Aid Advisors; A.A.S., Business Technology, Rogue Community College, Grants Pass, 1999

Daniel Wu
Academic Adviser II, Academic Case Manager, Counseling and Advising, SOHOPE (Southern Oregon HOPE grant); B.A., Economics, Simon Fraser University, Vancouver, BC, 2000; M.Ed., Higher Education Student Affairs, University of Southern California, Los Angeles, 2009

Colletta Young, Ph.D.
Director, TRiO Student Support Services (TRiO/SSS Programs), Director, TRiO University Transfer, Student Services; B.S., Home Economics Education, Abilene Christian University, Abilene, 1978; M.Ed., Counseling and Psychology, West Texas A&M University, Canyon, 1988; Ph.D., Educational Leadership, Gonzaga University, Spokane, 2003

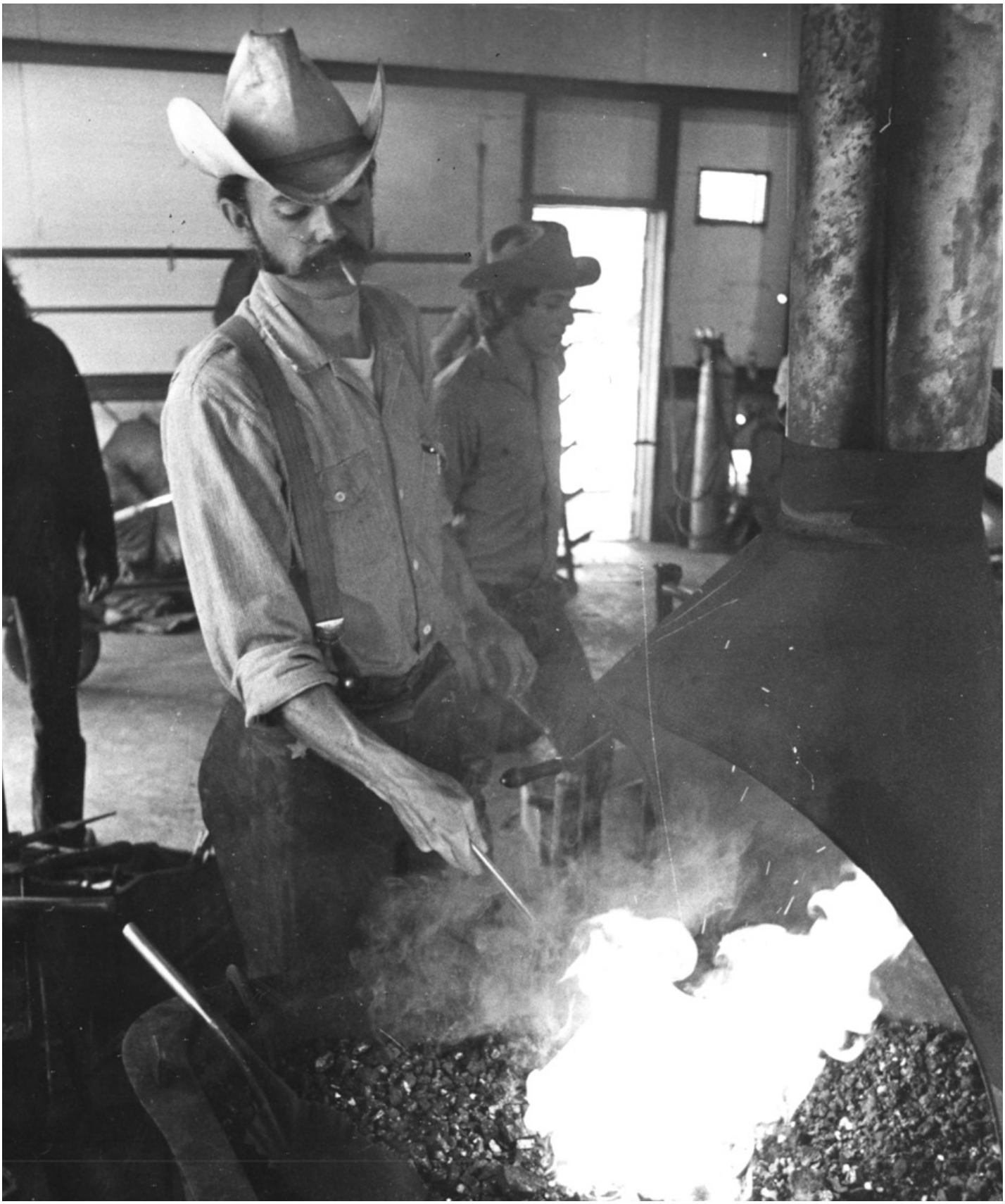
Adjunct faculty

Rogue Community College values the contributions of its many adjunct faculty members who may serve as tutors, instructors, counselors, coordinators, or lab assistants.

The following are faculty who were contracted to teach part-time in 2019-20.

Abarca, Debra J
Ackles, David S
Adamo, Martin L
Akiyama, Eva V
Alexander, Nickolas R
Allphin, Joshua D
Arbogast, Pamela T
Armstrong Jr, Frank P
Arnold, Brent L
Atkin, Suzanne J
Baker, Johnny C
Ballou, Brian
Bans, Amanda S
Barker, Rebecca J
Barr, Sadie J
Bars, Susan C.
Bat'el, Marie
Battrick, Maria L
Beal, James L
Beck, Megan S
Beck, Stacey K
Benham, Seth L
Bennett, Jon R
Benson, Debra Kim
Berg, Glenn A
Bharucha, Gulestan H
Bickel, Melissa M
Biggs, William J
Black, Miranda J
Bloom, Julia A
Blum, Richard A
Bohn, Larry A
Bostock, Bettina
Bowman, Michael S
Boyd, Benjamin J.
Bradshaw, Lisa A
Brand, Jillease M
Breedlove, Todd W
Brockman, Jane M
Browning, Chase A
Bryan, Benjamin M.
Buck, Daniel L
Buck, Tahisha M
Bull, Genee A
Bungay, Frank E
Burg, Noah
Busald, Timothy D
Bussell, Dana
Bustard, Aaron A
Byers, Erin
Calhoun, Michael S
Callies, Catriona J
Campbell, Cathryn E
Canady, Tammy J
Cantwell, Roger
Carbin, Natasha E
Carlile, Galyn B
Carlino, Steven A
Castellon, Regina G
Causey, Jamie L
Chandler, Gregory D
Chandler, Jasmyne E
Charat, Cynthia S
Chase, Darin C
Chinn, Mark
Clark, Graeme J
Collins, Kenneth L
Cook, Daniel W
Corliss, Dorian F
Cort, William R
Cox, Michael G
Craig, Frank G
Crane, Laura
Cranford, Ace B
Crawford, Sharon D
Crutchley, Robert M
Cunningham, Elijah A
Dalzell, Mary W
Daugherty, Chelsea K
Davidson, Kathleen L
Davila, Victor
Davis, Sharon A
Davis, Tyler C
De Costa, Kim
De Lisle, Timothy M
Dedrick, Dennis A.
Delonge, Randy C
Dennis, Kelsey F
DeSimone, Gary V
Di Betta, Lori A
Diamond, Rina
Doering, Anthony D
Doersch, George H
Dooly, Robert
Dorigan, Thomas
Drevets, Patricia F
Droesch, Peter H
Dunn, Talley K
Dusenbury, Regina C
Echaide, Alfredo
Elash, Daniel D
Elder, Jenay M
Elledge, Lisa D
Ellerman, Melinda A
Elworthy, Felicity M
Englund, Jennifer K
Estremado, Jarret A
Eufusia, Jennifer L
Evans, Michael D
Evans, Ryan T
Farster, Penny J
Fazio, Michael D
Feetham, Mandi R
Feinberg, Reanna S
Feist, Richard A
Feldman, Caleb Z
Ferguson, Donald
Fernandez, Rogelio
Fields, Ryan B
Fine, Chelsea E
Fiore, Donna M
Fleming, Helen R
Foster, Kathleen L
Foust, Velma V
Franchini-Smith, Anne-Marie R
Fuentes, Christina
Gallas, Diane M
Galli, Matthew G
Garretson, Galen C.
Gentile, Francine I
Gettman, Dennis D
Gillespie, Patricia A
Gleason Biesanz, Heather D
Gobel, Victor M
Goerisch, Hayley E
Goldenberg, Robert A
Goodboe, Edward A
Gordon, Courtney K
Graham, Robert A
Gray, Michael S.
Green, Randall J
Greist, Paula P.
Griffis, Cindy L
Griffiths, Hugh R
Griggs, Daryl L
Grissom, Brandon L
Gronemyer, Kathryn S
Grutchfield, Michael A.
Gulrich, Paul F
Gunson, Frances I
Haas, Janay A
Hale, Aina M
Hall, Daniel J
Hamilton, Gretchen C
Hamilton, Lori D
Hamilton, Susan A
Hammer, Petra F
Hammer, Westin C
Hansen, Corey M
Hansen, Evalyn H
Hardy, Liz C
Hauser, Cynthia J
Hawkins, John D
Haynes-Clark, Jennifer L
Hayward, Erika F
Headings Calderon, Gabrielle A
Hebert, Eugene J
Heckert, Else B
Heinsohn, Trevor
Helard, Theodore
Henderson, Ralph W
Hennes, William R
Hennings, Clinton B
Hennings, Eric B
Herazo, Amanda M
Herrera, Anthony R
Hertel, Holly H
Hettman, Celeste D
Hickman II, Donald E
Hickman, Margueritte L
Higgins, Richard R
Hill, Judith R
Hilliker, Matthew R
Hocevar, Kristin P
Hocker, Chelsea D
Hoeber, Joann H
Hohl, Shelly A
Holcomb, Jesse P
Holliday, Natalie
Holm, Cynthia L
Holst, Stephen E
Holub, Rosemarie P
Hopkins, William D
Huddleston, Mark D
Huggins, Kierra M
Hull, Jerry E
Hyatt, Joseph
Iannone-Mulleary, Cathy M
Ibarra, Martha
Inglehart, James A
Jackson, Jennifer L
Jarvie, Noah
Jeffs, Allyson
Jeffs, Bryan R
Johnsen, Jami L
Johnson II, James R
Johnson, Connie M
Johnson, Deborah
Johnson, Kelly M
Johnson, Mary K
Johnson, Shirley L
Jones, Brandon A
Jones, Christina J
Julian, Robert
Juno, Cliff B
Kai, Irene
Kalist, April L
Kelley, Pamela D
Kennedy, Frank H
Keoppen, Kim
Kerr, Erin L
Kimzey, Dennis L
King, Larry
Kitchen, Jessica L
Klise, Melissa
Knight, Jeremy M
Knighten, Michelle E
Kostrna, Stephen E
Kowalski, Thomas M
Kramer, Lutz
Krausser, Joann
Kuhs, Grover W
LaCoste, Rod T
Lamoreau, Linda K
Landen, Travis A
Laney-Jarvis, Mickey L
Lang, Linda E
Larive, Catherine A.
Lasnik, Vincent E
Leavitt, Felicia P
Lebow, Kayleen M
Lebowitz, Daniel
Leonhardt, Ellie J
Lesh, David L
Licato, Lawrence A
Lincicome, Berkeley J
Lindsey, Gary R
Lion, Caroline A
Long, Doranne L
Longden, George A
Longo, Joseph M
Lozano, Gabriela
Luebbert, Trenton M
Lynam, Paula I
MacLeod, Collin C
Maddocks, Erik H
Maranov, Deborah A
Markiewicz, Jeremy A
Marti, Linda D
Martin, Paul L
Martinich, Stephen
Martin-Sherman, Haley J
Masters, David M
Masters, Jessica J
Mattson, Clayton J

Mau, James L
McAlmond, Russell W
McNally, Maureen A
McNellis, Brenda K
Meckfessel, Kristopher
Menchaca Brake, Juanita M
Mendenhall, Lisa R
Mendoza, Marisela
Mendoza-Moore, Bridey E
Micke-Johnson, Eileen M
Miller, Justin R
Miller, Kristopher M
Miller, Kyle O
Miller, Susan E
Millick, Gregory A
Milo, Scott A
Mitchell Jr, Russell A
Mitchell, Michelle I
Mitchell, Sandra M
Moodie, David J
Moodie, Margaret A
Morehead, Amanda S
Moreland, Seletta M
Moreno, Cody G
Morgan, Jason P
Morlan, Erin M
Moulton, Glen E
Mount, Barbara CF
Murillo, Lindsay J
Murray, Josh E
Nasholds, Wade D
Natali Olson, Linda M
Naumes, Susan G
Neill, William J
Nelson, Christine A
Nelson, Jeremy R
Nelson, Tyler Z
Newman, Vanessa A
Nielsen, Aaron C
Nielson, Kay M
Nordquist, Peter R
Norwood, Suzanne C
Nowak, Rhonda L
O'Hara, Michele S
Opgenorth, John L
Osborne, Travis W
Osborne-Koch, Bethany
Osorio, Cassandra E
Otto, Joye L
Otto, Mark R
Oxendine, Katherine A
Paciorek, Debra
Padgett, Emily G
Palanjian, Theresa L
Patryson, Trysha A
Paul, Kenneth R
Penicook, David J
Perkins, Douglas B
Perkins, Thomas L
Perry, Steven G
Peterkin, Karen L
Peterson, Lauren S
Peterson, Paula E
Peterson, Walter S
Petitt, Gerald W
Petitt, Virginia L
Petronella, Jeremy
Petty, Christie L
Phenix, Charles F
Phlaum, Paul E
Pierce, Robert L
Pleasant, Karen J
Poague, Joanna K
Poll, Robert F
Pool, Frederic F
Porter, Diana R
Powell, James L
Preber, Michael J
Press, Dina M
Preston, Deborah R
Prusko, Kristopher
Quinn, Adam G
Raber, Travis L
Regotti, Terri L
Renfro, Richard L
Richards, Jennifer K
Richardson, Regina M
Rigaud, Brandon M
Roberts, Jo Ann
Robinson, Eveline H
Roeloffs, TaiLese N
Roseborough, Michael T
Rountree, Barbara M
Rubin, Lauren
Ryerson, Kristin M
Saada, Fred M
Sabolboro, Jessica U
Salcido, Anna D
Salisbury, John P
Sanderson, Cynthia A
Sands, Kevin R
Sanford, Scott J
Schmidt, Sharon K
Schmidt, William
Schultz, Angela W
Scofield, Janelle K
Serabia, Jerry M
Seyboldt, Carl E
Sharp, Bracken J
Sharp, Manuel H
Shaw, Midge L
Sheehan, Robert A
Shelman, Robert E
Sherrill, Lisa K
Siegel, Stephen R
Silva, Chandra P
Simpson, Coral P
Simpson, Jessica
Sjuts, Megan N
Slama, Jane
Smith, Kilee M
Smith, Moreland
Smith, Nathan G
Snodgrass, Jerry J
Snyder, Sammi A
Sorenson, Karl F
Sours, David B
Spears, Beth M
Spurgeon, Joe H
St. Clair, Serena E
Stanford, Denise L
Stebbeds, Brenda L
Steele, Teri L
Stengel, Priscilla K.
Stidham, Ryan E
Strickler, Michael D
Stuart, Randi J.
Stuckey, Steven L
Studebaker, Bryan J
Suggs, Karen L
Sutton, Bonnie B
Swafford, Denise M
Swanson, Daniel E
Sweeney, James J
Sweeney, Thomas S
Szczesniak, Susan K
Talbott, Debra C
Tally, David C
Tambellini, Kimberly R
Taylor, Joanne E
Thanes, David C
Thomas, Charles L
Thomas, Rex A
Thompson, Aaron M
Thompson-Hague, Ann E
Thomson, Greig W
Thuresson, Aura V
Torguson, Michael D
Tosh, Franklyn L
Van Brunt Jr., James H
Van Buren, Suzanne
Van Couvering, Ray
Vandever, Melissa S
Venables, Lawrence T
Vincent, David R
Von Radics, Eric J
Wade, Christopher G
Wade, Karen S
Wade, Randall E
Wade, Susan G
Wagner, Linda D
Walker, Britta M
Walker, Devon Y
Walker, James G
Walker, Nicholas T
Wallace, Tyler S
Wan, Lai-Jin E
Wang, Yan
Wann, Merrill F
Ward, Joshua K
Wardle, Julie A
Warner, Deelia M
Weaver, Larry M
Webb, Darrell R
Welburn, Kenneth M
West, Daniel J
Westensee, Richard S
Weyland, Tina M
Whalen, Galina I
Whitchurch, Marina C
White, Barbara A
White, Linda C
Wilder, Joel C
Willits, Ryan R
Wilson, Lynda K
Winters, Rachel
Woodman, Mary Ann F
Young, Phillip A
Zamorskaia, Evgenia S
Ziegler, Jamie L
Ziel, Steve
Zottola, Martin D



Horse shoeing, 1970s

Emeriti

The RCC Board of Education may grant president, vice president, dean or faculty emeritus status to retiring employees. Emeritus status is reserved to honor individual(s), at retirement, who have provided outstanding and distinguished service to the College, which means work that exceeds average, satisfactory performance in carrying out the routine responsibilities of his/her appointment and demonstrates an extraordinary impact on the College or the community.

The nomination process includes a nomination letter from the president or Board Chair before June 30th of the employee's retirement year. Nonetheless, the title of emeritus may be awarded posthumously. The recommendation must be approved by a majority of the Board.

Peter Angstadt, Ph.D.
President Emeritus

Laura Ault
Faculty Emeritus, Business Technology

D. Thomas Bradbeer
Dean Emeritus, Human Resources and College Advancement

Jerry Bryan
Faculty Emeritus, Humanities

Leslie Bryan
Faculty Emeritus, Adult Basic Education

Kathleen A. Burkey
Dean Emeritus, Redwood Campus

Pedro Cabrera
Faculty Emeritus, Respiratory Care

Sue Calkins
Faculty Emeritus, Adult Basic Education

Galyn Carlile, Ph.D.
Dean Emeritus, Instruction/Growth Initiatives

Carolyn Chancler
Faculty Emeritus, Adult Basic Education

Rex Chapman
Faculty Emeritus, Business and Office Technology

Margaret Cunningham
Faculty Emeritus, Academic Skills

Jeannette Cappella
Faculty Emeritus, Language Arts

Steven Flannery
Faculty Emeritus, Academic Skills

David Fuller, Ph.D.
Faculty Emeritus, Science

Gary Gates
Faculty Emeritus, Science

Francine Gentile
Faculty Emeritus, Social Science/Human Services

Linda Goodyear-Stevenson
Faculty Emeritus, Developmental Studies and Humanities

Sue Hall
Faculty Emeritus, Nursing

Roger Harding
Faculty Emeritus, Small Business Management

Richard Harms
Faculty Emeritus, Developmental Studies

Cynthia Hauser
Associate Dean Emeritus, Instruction

Ralph Henderson
Faculty Emeritus, Instruction/Career and Technical Education

Dorcas Herr
Faculty Emeritus, Language Arts

Dick Holliday
Faculty Emeritus, Mathematics

Marilyn "Jeanne" Howell
Associate Dean Emeritus, Instructional Services

Robert Hutsell
Faculty Emeritus, Jobs Program

Charlotte Hutt
Faculty Emeritus, Mathematics

Terrance Johnson, Ph.D.
Faculty Emeritus, Science

Barbara "Bobbi" Kidder
Faculty Emeritus, Humanities

Dennis Kimzey
Faculty Emeritus, Mathematics

Alex Kozlowski
Faculty Emeritus, Individualized Career Training

Lutz Kramer
Faculty Emeritus, Humanities

Patti Kramer
Faculty Emeritus, Academic Skills; High School Outreach Coordinator

Kathy Krauss, Ph.D.
Faculty Emeritus, Humanities

Michael Laam
Associate Dean Emeritus, Instruction

B.C. Lamb
Faculty Emeritus, Business Technology

Gaia Layser
Faculty Emeritus, Counselor

Rick Levine
President Emeritus

John Lopez
Associate Dean Emeritus, Instruction

Cheryl Markwell
Vice President Emeritus, Instruction

Greg Marton
Faculty Emeritus, Social Science

Larry Mclane
Faculty Emeritus, Motorcycle Technology

Marion Miller
Faculty Emeritus, Business and Office Technology

Tom Miller
Faculty Emeritus, Library

Billie Miracle
Faculty Emeritus, Art

Eleanor Marie Saunders Mueller
Faculty Emeritus, Business Technology/Social Science/History

Larry Mullaly
Director Emeritus, Operations and Special Projects

Robert Murphy
Faculty Emeritus, Social Science

Harold O'Connors, Ph.D.
Faculty Emeritus, Respiratory Care; Coordinator, Academic Research and Assessment

Mary O'Kief,
Faculty Emeritus, Grants and Planning Coordinator

Sue Orris
Faculty Emeritus, Counseling

Mollie Owens
Faculty Emeritus, Humanities

Walt Padgett
Faculty Emeritus, Art

Mary Pierce
Faculty Emeritus, Reference and Instruction Librarian

Bonnie Reeg
Faculty Emeritus, Disability Services/Tutoring Center/Academic Skills

Linda Renfro
Dean Emeritus, Instruction

John Salinas
Faculty Emeritus, Science

Sylvia Thomas
Faculty Emeritus, Counseling

Greig Thomson
Faculty Emeritus, Human Services/Social Science

Laurie Van Riper
Faculty Emeritus, Adult Basic Education

Randy Wade, Ph.D.
Faculty Emeritus, Business Technology

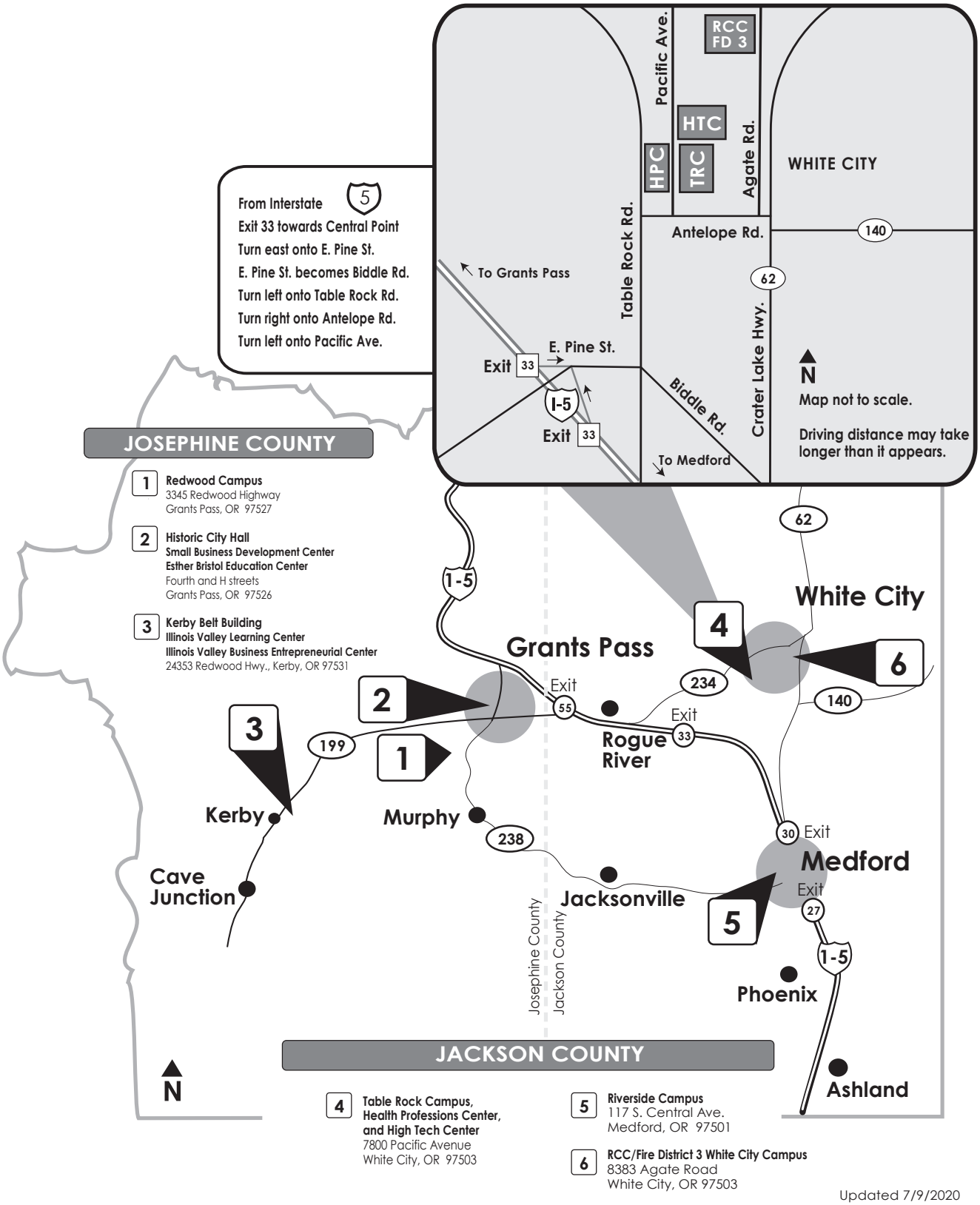
Index

Redwood Campus sculpture, 1980s

Maps

RCC DISTRICT

www.roguecc.edu/Maps



Updated 7/9/2020

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 and Jewelry

E ELK
- Science Classrooms/Labs

ECEC EARLY CHILDHOOD EDUCATION CENTER

F FERRIS
- Faculty Offices

FO FACILITIES AND OPERATIONS OFFICE

G GRONDE RONDE
- Classrooms

H HOOD
- Board Room
- Foundation Offices
- Marketing
- President's Office
- Institutional Research

I ILLINOIS
- Classrooms

J JOHN DAY
- Classrooms

JB JOSEPHINE BUILDING
- Contracts and Procurement
- Placement Testing
- University Transfer - TRiO SSS

K KLAMATH
- Adult Basic Skills - ABE/GED®/ELA
- Offices and Learning Center

L LOOKING GLASS
- Administration Offices
- Career and Student Employment Services
- Instructional Services
- TRiO ROC
- Veteran Services

M McKENZIE
- Budget and Finance
- Human Resources
- Massage Therapy

N NEHALEM
- Bookstore
- Shipping/Receiving

O OWYHEE
- Facilities Maintenance Shop

P PISTOL
- Classrooms

Q QUOSANTANA
- Humanities Faculty Offices

R ROGUE AUDITORIUM

S SANTIAM
- Automotive
- Mechanical Tech Labs

SC STUDENT CENTER
- Student Government/Clubs and Advisor
- Veterans Resource Center

SS STUDENT SERVICES
- Admissions
- Counseling and Advising
- Recruitment
- Rogue Central
- Cashier
- Financial Aid
- Registration
- SOHOPE
- Transfer Center
- Welcome Center

T TUALATIN
- Classrooms

U UMPQUA
- Gymnasium
- M Mothering room

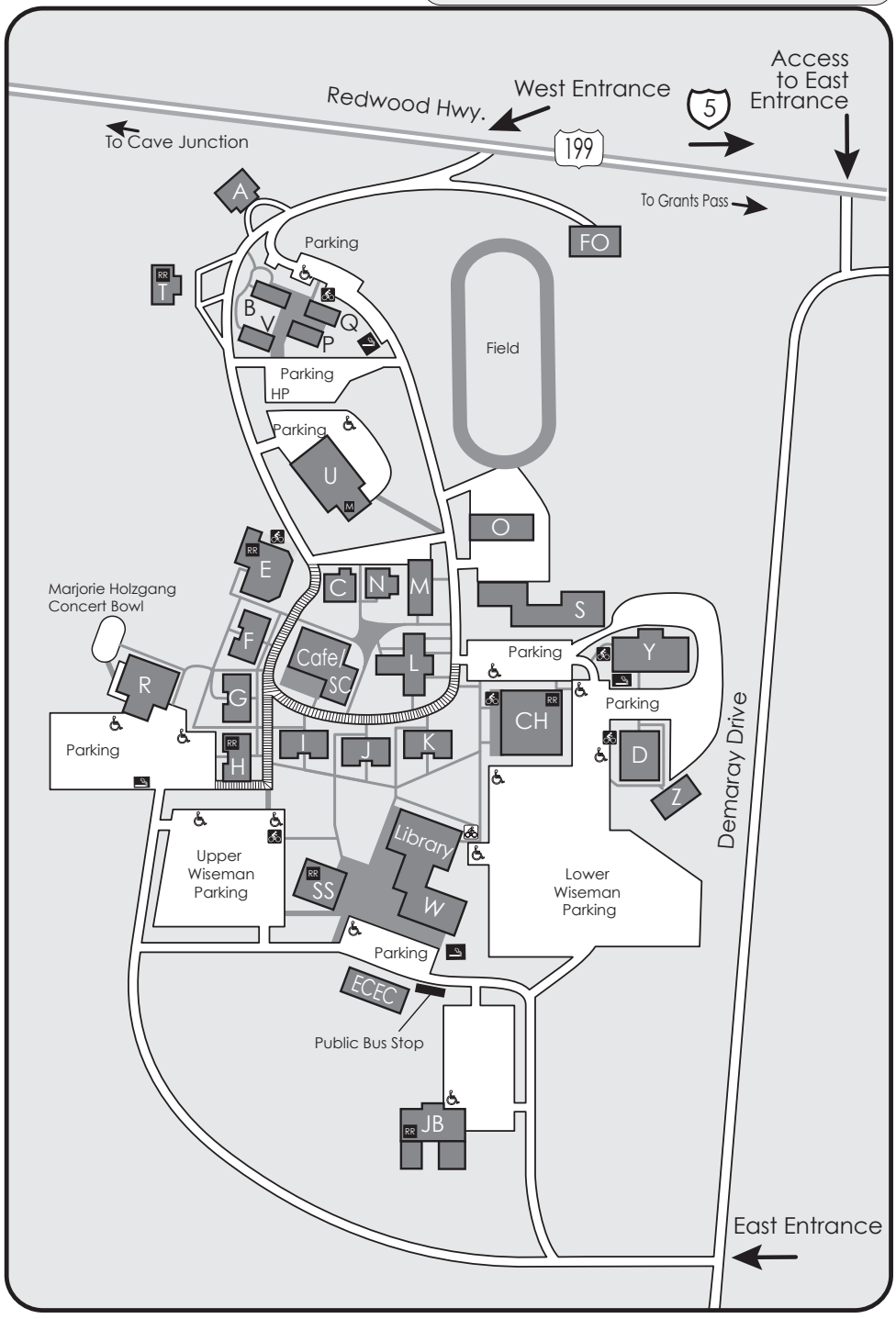
V VANNOY
- Conference room

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

ADA Parking
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
- 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

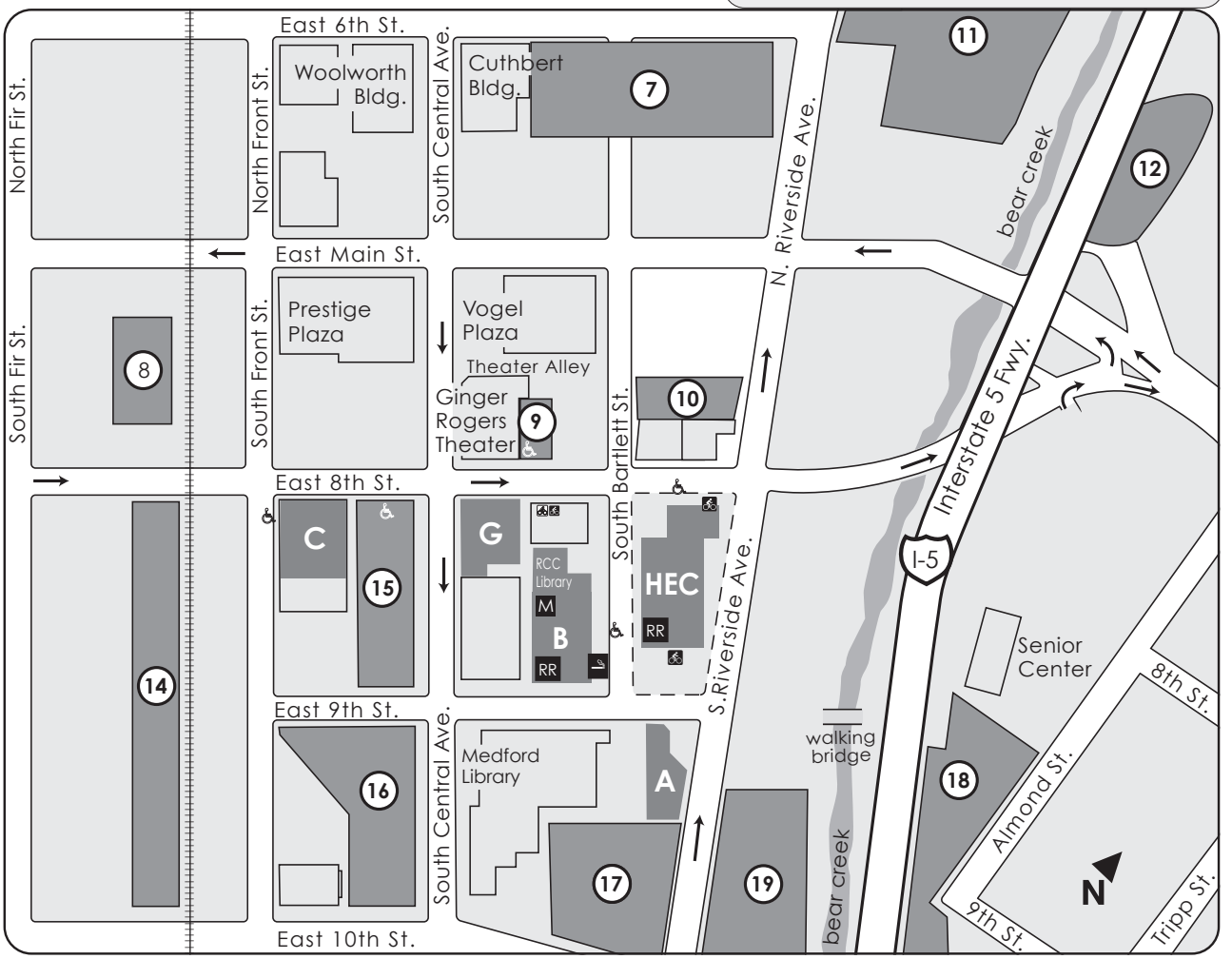
G – 117 S. CENTRAL
- Lower Floor
  - ABE/GED®/ESL classrooms
  - Academic Skills classrooms
  - Instructional Media
- Main Floor
  - ABS Faculty offices
  - Academic Skills Faculty Offices
  - Athletic Director
  - Academic Success Center
  - Security
  - Student Government/Clubs and Adviser
  - Student 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 114 S. Bartlett St.
RCC Library

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 Garfield.
Turn right onto S. Riverside Ave./OR-99 N.
Turn left onto E. Main St./Jacksonville Hwy.
Turn left onto S. Central Ave.

RCC Building
Designated Smoking Area
RR All gender, single use, ADA Restrooms
M Mothering Room
Bike Racks
Bike Lockers



Parking **- ADA parking**

7 - Middleford
8 - Evergreen
9 - Craterian
10 - Bartlett South
11 - Riverside North
12 - Bear Creek North
14 - Evergreen South
15 - Central B
16 - Central A (Expanding)
17 - Riverside
18 - Bear Creek South
19 - Riverside South

***All parking adjacent to the campus is provided and monitored by Medford parking enforcement. Call 541-774-2082 for parking cost and permit information or visit http://www.ci.medford.or.us/Page.asp?NavID=3656**

www.roguecc.edu/Maps

updated 7/6/20

TABLE ROCK CAMPUS, WHITE CITY

www.roguecc.edu/maps

7800 Pacific Ave., White City, OR 97503

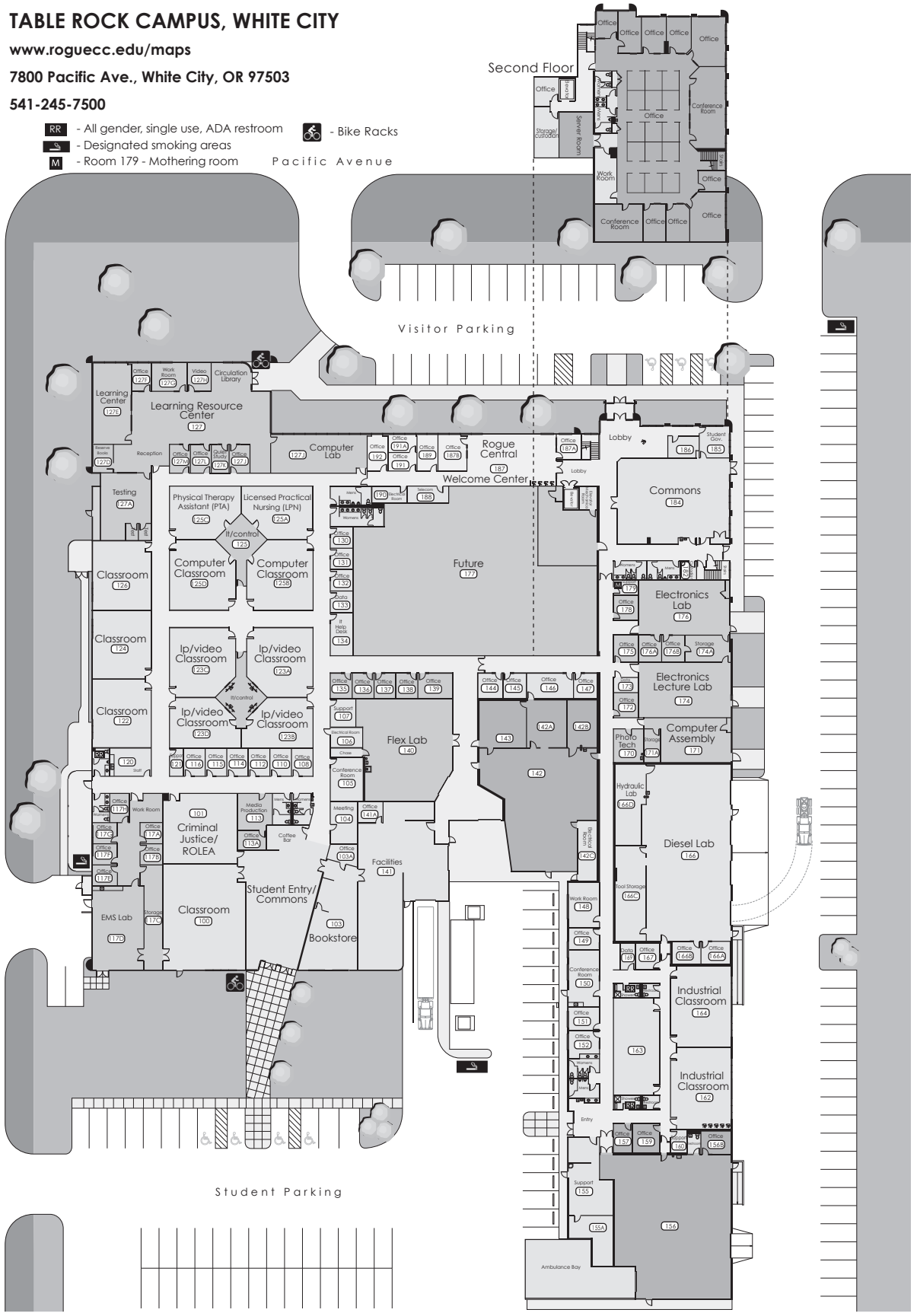
541-245-7500

RR - All gender, single use, ADA restroom

- Designated smoking areas

M - Room 179 - Mothering room

- Bike Racks



Updated 3/1/19

Nursing, 1980s

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							
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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							

Notes

Rogue Community College Catalog Errata for printed catalog year 2020-21

<table>
<tr><th>Page</th><th>Program or Course</th><th>Correction</th></tr>
<tr><td>7</td><td>Limited Entry Programs</td><td>Emergency Medical Services is not a limited entry program. However, there is one course in the program that is limited entry: ES131, and the associated lab, ES131L. For more information contact a program advisor.</td></tr>
<tr><td rowspan="8">14</td><td rowspan="8">Advanced Placement Exam Chart</td><td colspan="3">Advanced Placement Examination</td><td>Scores</td><td>Credits</td><td>Course</td></tr>
<tr><td colspan="3">Art - Drawing</td><td>3+</td><td>3</td><td>ART131</td></tr>
<tr><td colspan="6">(In the row above ART131 credit value is 3, not 4 as listed in printed catalog.)</td></tr>
<tr><td colspan="6">Additional rows to Advanced Placement Exam Chart</td></tr>
<tr><td>Examination</td><td>Score</td><td>Credits</td><td colspan="3">Course</td></tr>
<tr><td>Italian</td><td>3</td><td>12</td><td colspan="3">Humanities Elective</td></tr>
<tr><td>Italian</td><td>4+</td><td>12</td><td colspan="3">Humanities Elective</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>15</td><td>International Baccalaureate Exam (IB) Chart</td><td>ENV111 is a 3 credit course.</td></tr>
<tr><td>58</td><td>Mechatronics Specialist Certificate and Mechatronics: PLC Programming Certificate</td><td>These programs are considered one year programs.</td></tr>
<tr><td>71</td><td>Computer Support Technician AAS</td><td>BT160 is an alternate course to MTH96/MTH65 in the General Education Requirements section.</td></tr>
<tr><td>79</td><td>Microcontroller Systems Technician</td><td>Total program credits is 47-56</td></tr>
<tr><td>84</td><td>Industrial welding Technology: SMAW Welder CPC</td><td>Approved program electives:
WLD250D is Selected Topics: GMAW</td></tr>
<tr><td>104</td><td>Design and Digital Media: Social Media Technician CPC</td><td>DDM 130 course title is: Introduction to Adobe® Web Tools</td></tr>
<tr><td>107</td><td>Business Management Transfer to Oregon Tech</td><td>SP115 and SP218 should be listed as COMM115 and COMM218</td></tr>
<tr><td>125</td><td>Criminal Justice Transfer to Southern Oregon University</td><td>Under General Education Requirements, total credits for Lab Science electives is 12. (Remove line for Science electives and refer only to Lab Science, 12 credits)
Total General Education Requirements = 46-49 credits
Total Program Credits = 90-93
Courses listed under Approved Science electives should <u>not</u> include:
BI100GB, BI100SB, CIS195, ENV111, G100, GS170
In the paragraph below Footnote 2, Approved Science electives, 11-15 credits should be listed as 12.</td></tr>
<tr><td>137</td><td>Massage Therapy: Entry Level Therapist</td><td>Program Admission is Fall 2021.</td></tr>
<tr><td>148</td><td>Software Engineering Technology transfer to Oregon Tech</td><td>EET125 is 6 credits. Core total should have been 36 and program total = 92-95.</td></tr>
<tr><td>160</td><td>Elementary Education Transfer to Southern Oregon University</td><td>Under Approved Humanities electives, the final sentence should be: (… At least one course must be a literature course.)</td></tr>
<tr><td>165</td><td>Family Support Services AAS</td><td>Under Second Term, ECE151 Guiding Children in Group Settings, 3 credits, should be listed as the first course in this term.</td></tr>
</table>

170	Human Services transfer to SOU	Approved Science / Lab Science electives should be listed as 11-12 credits.
174	AAOT Elementary Education Interest	The AAOT Elementary Education Interest was omitted from the 2020-21 printed catalog. It can be found at https://web.roguecc.edu/2020-21-graduation guides/associate-arts-oregon-transfer-degree-educationelementary-interest
178	Pre-professional Medicine Interest (AGS)	SP111 should be listed as COMM111
184	Apprenticeship: Industrial Mechanics and Maintenance Technology AAS	Course titles: APR229C is Avionics APR120A is Boiler Operator: Introduction to Boiler Operation APR120B is Boiler Operator: Mechanics of Steam Generated Power APR120C is Boiler Operator: Boiler Component Design and Operation APR120D is Boiler Operator: Steam Turbine Operation APR120E is Boiler Operator: Instrumentation and Control Devices APR120F is Boiler Operator: Installation and Operation of the Heating Boiler
186	Apprenticeship: Industrial Mechanics and Maintenance Technology CPC	Course titles: APR120A is Boiler Operator: Introduction to Boiler Operation APR120B is Boiler Operator: Mechanics of Steam Generated Power APR120C is Boiler Operator: Boiler Component Design and Operation APR120D is Boiler Operator: Steam Turbine Operation APR120E is Boiler Operator: Instrumentation and Control Devices APR120F is Boiler Operator: Installation and Operation of the Heating Boiler
193	AM290	AM290 is 4 credits.
195	APR216F	APR216F is 4 credits.
197	ART198	ART198 is a variable credit course.
198	BA211	BA211 is 4 credits.
199	BI100SB	BI100SB is 3 credits.
202	CIS120	CIS120 does not have pre-requisites.
203	CIS125PPT	Course number for Effective Presentations is CIS125PT.
207	DA103	DA103 is 2 credits.
205	CJ210	CJ210 is 4 credits.
209	DS113	DS113 is 6 credits.
210	DS290	DS290 is *not* a variable credit course. It is a 3 credit course.
211	ECE136B	The pre-requisites for ECE136B are RD90 and WR90, or WR91 or designated placement score.
215	EMS223	EMS223 is 2 credits.
216	ENG107	Course title is World Literature: Ancient to Classical
216	ENG108	Course title is World Literature: Medieval to Renaissance
216	ENG109	Course title is World Literature: Enlightenment to Modern
216	ENG204	Course title is Survey of English Literature: Medieval to Renaissance
216	ENG205	Course title is Survey of English Literature: 18th Century to Romantic The pre-requisite for ENG205 is WR115 or designated placement score.
216	ENG206	Course title is Survey of English Literature: Victorian to Modern
216	ENGR201	ENGR201 is 3 credits.
217	ES131, ES131L	The pre-requisites for ES131 and ES131L are RD90 and WR90, or WR91.
218	FRP252	FRP252 is 4 credits.
220	HD114, HD215	HD114 and HD215 do not have pre-requisites.

221	HS260	HS260 is 4 credits.
222	HS299	HS299 course description: Presents special topics in human services including, but not limited to, trauma, drug and alcohol abuse, client record management, and client contact.
222	HUM101	Course title is Introduction to Humanities: Classical to Medieval
222	HUM102	Course title is Introduction to Humanities: Renaissance to Enlightenment
222	HUM103	Course title is Introduction to Humanities: Romanticism to 20th Century
227	MT102L	The correct title of MT102L is Swedish Lab.
227	MFG244, 3 credits	MFG244 course description: Covering basic Computer Numerical Control (CNC) programming of the Haas turning center (lathe) as well as machine set-up and operation, this course emphasizes personal and machine safety, manual data input programming, and manual program editing. Students learn safe manufacturing methods by completing a series of assignments using a Haas SL10 turning center. Students will gain experience reading, writing and editing part programs using industry standard G & M code programming.
230	MUS108	MUS108 is 4 credits.
240	SPAN111	The pre-requisites for SPAN111 are WR115 and SPAN101.
241	SRV101	SRV101 is a variable credit course, 1-6 credits.
242	WR122	WR122 is 4 credits.
Last updated May 24, 2021		