

2017-2018 ACADEMIC CALENDAR

	Fall term 2017	Winter term 2018	Spring term 2018	Summer term 2018
First day of classes	September 25	January 8	April 2	June 25
Tuition deadline and end 100% refund period*	October 6*	January 19*	April 13*	July 6*
Begin late registration (\$30 fee)	October 9	January 22	April 16	July 9
Last day to change from audit or drop classes with no grade on transcript	November 9	February 23	May 18	August 10
Last day to drop classes, receive a "W" grade*	December 6	March 14	June 6	August 22
Holidays	November 10 Veterans Day (COCC closed) November 23-24 Thanksgiving (COCC closed) Dec. 18-29 Winter Break (COCC closed) Jan. 1 New Year's Day (COCC closed)	January 15 Martin Luther King Day (COCC closed)	May 28 Memorial Day (COCC closed)	July 4 Independence Day (COCC closed)
Final exams	December 11–15	March 19–23	June 11–15	Varies
Commencement			June 16	
Last day of term	December 17	March 25	June 17	September 2
Grades posted online	December 21	March 29	June 21	September 6

^{*}These dates apply to full-term courses; proportional (or earlier) deadlines apply to part-term courses.

CAMPUSES

Bend Campus

541.383.7700 2600 NW College Way Bend, Oregon 97703

Redmond Campus

541.504.2900 2030 SE College Loop Redmond, Oregon 97756

Madras Campus

541.550.4100 1170 E Ashwood Road Madras, Oregon 97741

Crook County Open Campus

541.447.9233 510 SE Lynn Blvd Prineville, Oregon 97754

College Switchboard

541.383.7700

Home Page

cocc.edu

Email

welcome@cocc.edu

The information contained in this catalog reflects an accurate picture of Central Oregon Community College at the time of its publication. However, conditions can and do change. The College reserves the right to make any necessary changes in the information contained herein, including its calendar, procedures, policies, curriculum, course content and costs.

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CENTRAL OREGON COMMUNITY COLLEGE

2017-2018 Catalog

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ABOUT COCC

For nearly 70 years, Central Oregon Community College has served the citizens of its District, students from within the District, elsewhere in Oregon and throughout the United States by offering a wide range of learning opportunities.

One of the principal attributes of COCC is its emphasis on quality instruction. This is complemented by small classes and the opportunity for all students to enjoy close, caring relationships with the College's faculty and staff.

HISTORY

Central Oregon Community College was founded in 1949 as part of the Bend School District. It is the longest standing community college in Oregon. The College District was formed in 1959 and officially established as the Central Oregon Area Education District by a vote of residents in 1962. The original Bend campus opened more than 50 years ago, in 1964.

Donald P. Pence served first as director of the College (from 1950 to 1957) and then as the first president (from 1957 to 1967). Dr. Frederick H. Boyle was president from 1967 through 1990. Dr. Robert L. Barber was the third president in the College's history and served through 2004. Dr. James E. Middleton served for 10 years, from 2004 to 2014. Dr. Shirley Metcalf, appointed first as interim president in 2014 and then into the permanent role in 2015, is the College's fifth president.

OUR DISTRICT

The Central Oregon Community College District encompasses all of Crook, Deschutes and Jefferson counties, as well as the southern part of Wasco and northern portions of Klamath and Lake counties. A seven-member board of directors governs the College, with members of that board elected from geographic zones in the District. The District covers a 10,000-square-mile area, making it larger than eight of the U.S. states.

OUR CAMPUSES

The College's main campus is located on the western edge of Bend, a city known for its natural beauty and proximity to diverse recreational opportunities. The 200-acre Bend campus offers quiet, peaceful surroundings for study and reflection. With its location on the western slope of Awbrey Butte, students have a spectacular view of the Oregon Cascade mountain range from nearly every point on the grounds. The campus contains 26 buildings with a total of 575,000 square feet. The newest building is the 330-bed Wickiup Residence Hall which opened in September 2015.

On the 25-acre Redmond Campus, there are four buildings, housing administration, classrooms and a computer lab. The new Redmond Technology Education Center opened in Fall 2014, housing state-of-the-art facilities and programs.

In 2011, COCC opened new campuses in Madras and Prineville. The Madras Campus was funded by the 2009 bond measure and placed on land donated to COCC by the local Bean Foundation. The COCC Crook County Open Campus was funded jointly by the bond measure and a grant to Crook County from the U.S. Department of Commerce Broadband Technology Opportunity Program, and is on land donated by the County.

All campuses offer credit and non-credit courses and the necessary student services to help assure student success.

BOARD VISION AND GOALS

Mission Statement

Central Oregon Community College promotes student success and community enrichment by providing quality, accessible, lifelong educational opportunities.

Vision Statement

To achieve student success and community enrichment, COCC fosters student completion of academic goals, prepares students for employment, assists regional employers and promotes equitable achievement for the diverse students and communities we serve.

CORE THEMES

The Board has adopted five core themes that manifest the essential elements of COCC's mission. The core themes are:

Institutional Sustainability

Students will have the opportunity to be successful because the College has planned and invested appropriately to ensure sustainability of high quality programs, services and facilities that support student learning and educational achievement.

Transfer and Articulation

Students will have the academic achievement and skills necessary to transfer and articulate successfully to institutions of higher learning beyond the community college level.

Workforce Development

Students of Career and Technical Education (CTE) programs will be prepared for employment and advanced education through the acquisition of knowledge and skills necessary to meet current industry needs.

Basic Skills

Students will have academic achievements and basic learning skills necessary to participate effectively as engaged community and family members, and employees, and to succeed at the college level.

Lifelong Learning

Participants in lifelong learning will have access to learning opportunities in the areas of Enrichment, Professional Development, Technology and Wellness.

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ACCREDITATION

Central Oregon Community College is accredited by the Northwest Commission on Colleges and Universities. Accreditation was most recently reaffirmed in 2012. Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact:

Northwest Commission on Colleges and Universities 8060 165th Avenue N.E., Suite 100 Redmond, WA 98052 425.558.4224 nwccu.org

A copy of COCC's official accreditation documentation is on reserve and available for review in the Barber Library during regular library hours. Questions regarding accreditation should be addressed to the vice president for instruction.

OUR FACULTY

COCC has 130 full-time faculty members, 50 adjunct faculty (semi-permanent faculty on annual contracts) and approximately 150 part-time instructors per term. The College's faculty is a committed, professional group of educators, which provides stimulating and meaningful learning experiences for the College's students. Faculty members serve as advisors to individual students, assisting them in planning academic programs and schedules. All COCC faculty are required to have at least a master's degree or equivalent training. Within the institution, there is strong motivation for continuing professional improvement by all faculty and administrators. About 40 percent of the faculty have doctorates in their disciplines, which is a very high percentage for a community college.

OUR STUDENTS

Nearly 9,500 students enrolled in credit classes at COCC last year. Each quarter, approximately 2,000 full-time and 4,000 part-time students are enrolled. While more than half of the students are under the age of 24, another quarter are 35 and older. About 30 percent of the students enroll in career and technical education programs and take career-oriented courses of study. The remainder enroll in courses that form the freshman and sophomore years of a four-year college program. Students in such a program usually intend to transfer to another college or university for their junior and senior years.

THE COCC FOUNDATION

Education changes lives. For more than 60 years, Central Oregon Community College Foundation scholarships have enabled students to learn new skills, earn technical certificates, complete two-year associate's degrees and be prepared to pursue the remainder of their undergraduate studies at a college or university. Students can apply for an annual scholarship for the next academic year from December 15 – July 15.

The COCC Foundation is the oldest community college foundation in Oregon. Its assets have grown significantly over the years, from the first gift of \$500 in 1955 to nearly \$20 million today. In addition to scholarship support, the COCC Foundation also provides support in a variety of ways, from supporting departmental programs to providing support for the Nancy R. Chandler Visiting Scholar Program. For 2015-2016, the COCC Foundation awarded more than 400 scholarships totaling \$1.5 million. For more information, call 541.383.7225, or visit: cocc.edu/foundation.

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LEARNING OPTIONS

COCC offers credit transfer/lower division programs, career and technical education degrees and certificates as well as developmental courses. In addition, COCC offers Continuing Education options and Adult Basic Skills. Students also have the option of benefitting from our dual admissions program with Oregon State University – Cascades.

CREDIT OPTIONS: TRANSFER, CAREER AND TECHNICAL EDUCATION, AND INDIVIDUALIZED STUDY

Transfer

COCC offers several options to support students who intend to transfer their credits to earn a bachelor's degree at another college or university. The Associate of Arts Oregon Transfer (AAOT) provides students with several assurances when transferred to any Oregon public university. The Associate of Science (AS) degree prepares students to transfer either to a specific baccalaureate-granting college, to a specific major, or both. The Oregon Transfer Module (OTM), while not a full certificate or degree, is designed to transfer to Oregon community colleges and public universities; all credits will be applied toward general education requirements.

Career and Technical Education

The Associate of Applied Science degree, certificates of completion, and short-term certificates of completion are designed to prepare students with technical skills so they can enter the workforce after graduation.

Individualized Study

COCC provides the Associate of General Studies for students who are not pursuing a specific transfer or career and technical program but wish to design a course of study to meet their individual needs.

CONTINUING EDUCATION

COCC's Continuing Education department offers innovative, high-quality, community-driven, affordable noncredit classes and events to adults throughout the District. Classes provide opportunities to stay current with job skills, engage in new hobbies or expand outdoor activities.

Continuing Education classes are easy to access. There are no applications, no transcripts and no special qualifications. Students sign up and pay the class fee to enroll. For additional information visit cocc.edu/continuinged or call 541.383.7270.

Community Learning

The Community Learning program provides hundreds of classes each term that encourage students to explore personal interests and learn new skills. Take classes for fun, business, health, recreation or personal growth—the choice is yours. Class

schedules are mailed to households throughout the district and are available online at cocc.edu/community-learning.

Professional and career development

A variety of high-quality professional education courses are available for those who want to stay competitive in their careers, study for industry certifications, meet continuing education requirements, or pursue entry-level career training. Professional development opportunities include accounting/bookkeeping, computers, graphic and website design, project management, health care and wellness, landscaping, leadership and management. COCC can customize training so employees gain the specific knowledge they need to perform their job duties and contribute to a more productive and profitable business. Visit cocc.edu/continuinged/professional-development for more information.

Small Business Development Center

The Small Business Development Center (SBDC) at Central Oregon Community College is focused on helping build Oregon's best businesses. They offer no-cost one-to-one advising, business planning, educational workshops, market research and assistance in accessing capital for businesses. Seven experienced staff advisors are available to meet with businesses by appointment throughout the tri-county region. In addition, the SBDC offers:

- Business Start Up and Launch workshops
- Practical workshops on business planning and growth
- Small Business Management program
- Grow Oregon advising/services for larger traded-sector companies
- Capital access assistance
- Strategic market research
- International trade assistance
- Government contracting assistance
- Discounted programs for veterans

The goal of the SBDC at COCC is to have a positive impact on the growth and sustainability of Central Oregon businesses. For more information on these services and others, contact the SBDC at 541.383.7290, sbdc@cocc.edu or go to cocc.edu/sbdc.

Online noncredit courses

COCC offers a wide variety of online courses designed to minimize commute time and accommodate your schedule. Students gain skills to enhance their career or choose topics just for fun or for personal enrichment. Every course offered has been carefully engineered to provide quick and easy access to all course materials.

Registration

Registration information is provided on the Continuing Education website at cocc.edu/continuinged/how-to-register and in the Community Learning class schedule, which is published each term. Registrations are processed as received. Students may register by phone, mail, fax, online or in person.

Fees

Full payment of fees is required at the time of registration. Students may pay with Visa, MasterCard, Discover, check or cash.

Age requirements

Anyone age 16 or older may attend Community Learning classes or workshops.

BASIC SKILLS

ADULT BASIC SKILLS (ABS)

The Adult Basic Skills department is comprised of two programs, English Language Learning (ELL) and Adult Basic and Adult Secondary Education (ABE/ASE). The goal of these programs is that students will have academic achievements and basic skills necessary to participate effectively as engaged community, family members and employees, and to succeed in college.

The English Language Learning (ELL) program is designed for adults who need to learn the English language. Classes focus on speaking, understanding, reading and writing skill development.

The Adult Basic Education/Adult Secondary Education (ABE/ASE) program provides instruction in basic reading, writing, math, study skills and basic computer skills to prepare students for a variety of purposes including college and GED Exam preparation and employment. Classes include Basic Reading and Writing and Basic Math.

Students may attend day or evening sessions, depending on the location. Required orientation and registration sessions are held during the first week of each term. Call the ABS office at 541.504.2950 or see the website at cocc.edu/adult-basic-skills for exact times and locations.

ELL classes are offered in Bend, Redmond and Madras. Basic Reading and Writing and Basic Math classes are offered in Bend, Redmond, Prineville, Madras and Warm Springs.

PRE-COLLEGE LEVEL CREDIT CLASSES Credit options

Several academic departments offer courses that prepare students for college-level courses that may count toward degree completion and may be transferrable to other institutions. These classes are frequently available online or in classrooms on the Bend, Madras, Prineville and Redmond campuses.

Check the current credit class schedule, cocc.edu/degrees-classes/schedule-of-classes, for convenient times and locations.

Credit classes by subject

CIS 010	Keyboarding
CIS 070	Introduction to Computers: Windows
MTH 010	Developmental Mathematics
MTH 020	Pre-Algebra
MTH 029	Fraction Review Workshop
MTH 058	Math Literacy I
MTH 060	Algebra I
MTH 065	Algebra II

MTH 095	Intermediate Algebra
MTH 098	Math Literacy II
WR 060	Rhetoric and Critical Thinking I
WR 065	Rhetoric and Critical Thinking II
WR 095	Basic Writing II

College level classes that may also be of interest (these are not Pre-College)

HD 100CS	College Success
HD 100NT	Note Taking
HD 100OL	Exploring Online Learning
HD 100PM	Procrastination & Motivation
HD 100TM	Time Management
HD 100TT	Test Taking
HD 100VC	Values Clarification
HD 101	Study Strategies

PARTNERSHIPS

COCC routinely develops and supports partnerships with local, regional, statewide and industry organizations in order to achieve the College's mission. Several examples of learning options are listed below.

OREGON STATE UNIVERSITY - CASCADES

COCC and Oregon State University – Cascades have a partnership program called dual enrollment, which allows students to be admitted to and take courses from both institutions at the same time. This program provides advantages to students who intend to earn an OSU Cascades degree because they can take COCC courses toward their bachelor's degree at the community college tuition rate, and can start taking upper division OSU courses while finishing lower division requirements at COCC. In addition, COCC has several Associate of Science degrees designed to support a student transferring to OSU programs.

AREA HIGH SCHOOLS Dual Credit/College Now

This program offers high school students the opportunity to earn college credit for certain courses they complete in their schools. High school courses are aligned with collegiate career and technical education and transfer course curricula and are taught by qualified high school teachers. Courses offered vary by high school and by term; students must be enrolled in their high school but do not have to be admitted to COCC, and must pay a \$15/credit fee.

EXPANDED OPTIONS

Expanded options is an Oregon program that allows, under specific circumstances, high school students to enroll in COCC credit courses offered at a COCC campus at no charge to them for tuition, fees, supplies, and books. Each high school determines eligibility and participation requirements. Students should consult their high school counselor or ASPIRE coordinator for more information.

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ADMISSIONS

Central Oregon Community College is an open-door, equal-access institution. Enrollment Services is located in the Boyle Education Center. Services include admission, registration, student payment, financial aid, veterans' benefits, transcript evaluation, degree/certificate evaluation, student records, grade and transcript requests. Most services are also available at COCC's Redmond, Madras and Prineville Campuses.

COCC students can register for classes online and in person at specific dates during each term. Registration dates and times are available online and will be emailed to current students approximately three weeks prior to the beginning registration date. For a step-by-step guide to registration, see cocc.edu/getting-started.

ADMISSION CRITERIA

New students

To qualify for admission, students must be 18 years of age or older, or possess a high school diploma or GED. Applications are available on the College website, cocc.edu, or at any campus. All new students (those who have never taken credit courses at COCC) are required to submit a \$25 non-refundable application fee at the time of application. Applications will not be processed without this fee.

Students returning after an absence

Students who have attended COCC but have been absent for four quarters or more must submit a new application as early as possible in order to receive timely registration information. No application fee is required.

Transfer students

First time COCC students transferring from another college or university must submit an application for admission and a \$25 application fee. In addition, all official transcripts from previous institutions must be submitted prior to advising and/or registration.

Students not seeking a certificate or degree

Many students take college credit courses at COCC, yet are not planning to earn a certificate or degree. Such students apply through the regular application process and are required to take the placement test prior to registration. Some students may be exempt from the placement test; see the College website for exemption criteria. Non-certificate/non-degree-seeking students are not required to participate in advising but are welcome to do so.

APPLICATION DATES

COCC accepts applications on a continuing basis. Prospective students are encouraged to apply early in order to receive early, new-student registration information. For new student advising and registration dates, check the College website, cocc.edu. The application deadline for each COCC term is the Wednesday

before the start of courses. COCC reserves the right to close admission prior to the application deadline. Students are strongly encouraged to apply early.

RESIDENCY POLICY

Determination of residency for purposes of tuition will be made according to the following definitions. Students applying to COCC's nursing program must satisfy in-district residency requirements, as outlined in the nursing program application packet, prior to the application deadline.

In-district residency

An individual who, for one full year prior to beginning taking credit classes has either: a) owned property (or if under the age of 24, whose parent/guardian owns property); or b) maintained a permanent and continuous residence in the district will be classified as an in-district resident. The COCC District consists of all of Deschutes, Crook and Jefferson counties, the northern portions of Klamath and Lake counties, and the Warm Springs Indian Reservation in Jefferson and Wasco counties.

Out-of-district (in-state) residency

An individual who, for one full year prior to beginning taking credit classes has either: a) owned property (or if under the age of 24, whose parent/guardian owns property); or b) maintained a permanent and continuous residence in the state of Oregon (but outside the COCC District) will be classified as an out-of-district resident. The student will remain an out-of-district student for two calendar years after the term in which the student began courses; at that time, the student will convert to in-district residency.

Out-of-state residency

(CA, ID, NV, WA residents see exemption below)

An individual who has not maintained a permanent and continuous residence in the state of Oregon during the year prior to the beginning of the first term of enrollment will be classified as an out-of-state resident. The student will remain an out-of-state student for two calendar years after the term in which the student began courses; at that time the student will convert to in-district residency.

Exemption

Per Oregon Administrative Rules, residents of California, Idaho, Nevada and Washington will be charged in-state (out-of-district) tuition.

Verification

Residency of each applicant for college credit courses is determined from information provided at the time of application. When there appears to be an inconsistency, the College staff may require documentation to verify residency.

Transferring to another Oregon institution

In-state residency classifications are different at Oregon community colleges than at Oregon public universities and can affect tuition rates. Students are encouraged to check residency classifications before beginning their education in Oregon to avoid surprises later.

Oregon public universities often classify people who move to Oregon to go to school as non-residents even if they have resided in the state for a year, attended a community college as an in-state resident, have registered to vote and own property in this state.

Military personnel

Military veterans who have been discharged from service under honorable conditions will be assessed tuition as follows:

- Students who were in-district residents prior to serving in the military will be charged the in-district tuition rate.
- Students who were in-state/out-of-district/border state residents prior to serving in the military will be charged the non-resident veteran tuition rate.
- Students who were not Oregon residents prior to serving in the military will be charged the non-resident veteran tuition rate. The non-resident veteran tuition rate is calculated as the in-district tuition rate plus 50 percent of the difference between COCC's in-district rate and out-of-district/border state rate.

In order to receive these benefits, veteran students must have submitted all required paperwork to the COCC Veteran Certifying Official by the Friday prior to the term's start. Requests received after this date will be considered for the following term. Per the College's standard residency policy, a non-resident veteran student will be classified as an in-district resident after two years of enrollment.

Native American students

Students who are enrolled members of federally recognized tribes of Oregon or of a Native American tribe that had traditional and customary tribal boundaries that included part of Oregon or which had ceded or reserved lands within the state of Oregon shall be charged in-state/out-of-district tuition regardless of their state of residence. Residents of the Confederated Tribes of Warm Springs are automatically charged in-district tuition. For a listing of eligible tribes, visit COCC's website at cocc.edu/admissions/tuition-fees-payment/residency-policy. Note that students must provide a copy of tribal enrollment documents prior to starting courses.

Residency appeals

Students may appeal their residency status by completing a residency petition, available through the Admissions and Records office. Residency petitions and supporting documentation must be submitted within 30 days of receipt of letter of admission or the Friday prior to the start of the term, whichever is sooner. Petitions received after the deadline will be considered for the following term. Any change in residency status will not be retroactive.

TUITION WAIVER FOR STUDENTS 65 YEARS OF AGE AND OLDER

Students 65 years of age and older are eligible for a tuition waiver for COCC credit classes based on the following conditions:

- The student must be a resident of Oregon.
- The student must have a current term application on file in order to register. The application deadline is the Wednesday before the term begins. Under certain circumstances, COCC may close admission prior to this deadline. Students are encouraged to apply early.
- The student must be 65 years or older at the beginning of the term in which the course is offered.
- Space is available in the course(s). Student may add courses under this policy only during the first two weeks of the term; instructor permission is required.
- The tuition waiver is valid for eight or fewer credits per term.
- The student is auditing the course(s).
- The student is responsible for all fees (application fee, student fees, course fees, etc.).
- Tuition Waiver forms will not be accepted after the tuition due date of the term.

Students requesting a tuition waiver must register in person and complete a Tuition Waiver form (available in the Admissions and Records office). At the time the Tuition Waiver form is submitted, students must show photo identification that includes date of birth and an Oregon address. All fees must be paid in full by the tuition deadline in order to avoid late payment fees.

HIGH SCHOOL STUDENTS

Students who are still attending high school, but wish to take credit courses at COCC, have these options:

Special admission/Concurrent enrollment

High school students 15 years and older are eligible to register in up to 19 credits at COCC. High school students who register at COCC are fully responsible for complying with all the policies and procedures of the College as outlined in the Special Admission Information for High School Students form. This form is sent to each high school student upon admission to COCC and is also available on the COCC website. It is important to note that parents cannot access student records (grades, class schedule, attendance, etc.) without written permission from the student. Although members of the College staff can provide academic advising, they cannot interpret high school requirements or act in a supervisory role. The student is responsible for all tuition, fees, books and related expenses.

College Now

COCC works with area high schools to offer students the opportunity to earn college credit for certain career and technical education and general education transfer courses, which they complete at their schools. Courses offered vary by high school and are designed for high school juniors and seniors. The fee is \$15 per college credit. General education transfer courses

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may be used to meet COCC certificate or degree requirements as well as for transfer to most Oregon community colleges and universities. Students should check with all colleges about their policies for transferring college credits earned in high school. For complete details and a listing of courses offered by high schools, contact the appropriate high school counselor, call COCC's College Now office at 541.504.2930, or visit the College Now webpage at cocc.edu/college-now.

Expanded options

High school students have the opportunity to take credit courses at COCC with no charge to them for tuition, fees, supplies and books (transportation to and from COCC not included). Students interested in the Expanded Options program must submit an Intent to Enroll form to their high school counselor and meet the high school's participation requirements. Check with the high school counselor or ASPIRE coordinator for more information on eligibility requirements.

STUDENTS UNDER AGE 15

Students under the age of 15 must meet with the director of admissions/registrar or designee to assess readiness for college-level work prior to applying for admission. Students must meet minimum placement test scores, provide a statement of support from their school counselor and obtain permission from each instructor every term. If admission is approved, the student must submit a Special Admission form at the time of registration. See cocc.edu/high-school-options for complete details.

Students under age 15 who register at COCC are fully responsible for complying with all policies and procedures of the College. As such, parents cannot access student records (grades, class schedule, attendance, etc.) without written permission from the student. Although College staff members can provide academic advising, they cannot interpret high school requirements or act in a supervisory role.





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\$1.50 per credit

PAYMENT

TUITION AND FEES

Tuition and fees are due by the second Friday of the term. Payment may be made online with Visa, Discover or MasterCard; or in person with cash, check, Visa, Discover or MasterCard. Students who cannot meet this deadline should apply for a tuition payment plan through Enrollment Services by the tuition deadline. A tuition payment plan does not relieve the student of an obligation to meet registration and/or withdrawal (drop) deadlines for refund purposes.

Payment of the stipulated tuition and fees entitles all registered credit students, full-time or part-time, to all services maintained by the College. These services include use of the Library, Tutoring Center, laboratories and equipment in connection with courses for which the students are registered, access to the student newspaper and admission to special events sponsored by the College. No reduction in tuition and fees is made for students who do not intend to use these services.

The College reserves the right to make changes in tuition and fees without notice; however, any changes made during a term will not become effective until the next term. Courses with unusually high costs may include fees higher than the normal rate.

TUITION PAYMENT PLAN

A tuition payment plan is available in Enrollment Services at Boyle Education Center, for students registered in six or more credits. To initiate a payment plan, students must complete a contract and pay \$30 plus one-third of tuition and fees by the tuition due date. The balance will be due by 5 p.m. on Friday of the seventh week of the term; by August 11 for Summer term; by November 9 for Fall term; by February 23 for Winter term and by May 18 for Spring term. A \$50 late fee is charged for payments made after the deadline.

TUITION FOR CREDIT COURSES

FOR 2016-2017

In-district	\$95 per credit hour
Non-resident Veteran	\$112.50 per credit hour
Out-of-district/In-state	\$130 per credit hour
Border state (CA, ID, NV and WA)	\$130 per credit hour
Out-of-state	\$266 per credit hour
International	\$266 per credit hour
Audit	same as for credit
(CA, ID, NV and WA residents are ch	arged out-of-district tuition)

Check the COCC credit class schedule for courses that require additional fees. There are program fees in the following areas: automotive, aviation, career planning, culinary, dental assisting, emergency medical services, forestry, health and human performance, health information technology, manufacturing, massage therapy, medical assisting, nursing, outdoor leadership, pharmacy technician, structural fire science, veterinary technician and all online courses.

Full time: For the purposes of financial aid, veterans, social security and other benefit programs, 12 credits is considered full-time.

Fees for students enrolled in credit courses

Technology fee	\$6 per credit
Green Energy fee	25¢ per credit
Online course fee (applies to online courses only)	\$10 per credit
Science lab fee	\$12 per course
Optional Mazama Gym user fee (per term)	\$20
Late registration (after the second week of class) \$30 per transactio	
Late-late registration (after exam rosters are run)\$5	0 per transaction
Late tuition and fee payment-each week after dead	lline \$30
up to three weeks maximum	\$90
Fees for other courses	
English Language Learning (ELL) classes	\$20

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NSF CHECKS

Student Activities fee

If a payment is made with a check that is returned to the College due to insufficient funds, the student's account will be charged a \$20 returned check fee. Additionally, the student (or payer) will be required to pay tuition and fees with cash for one year.

COLLECTIONS POLICY

If a student fails to pay his/her tuition, fees, or other charges by the end of the term, the balance due amount may be turned over to the Oregon Department of Revenue (ODR) for collections. At that time, a collections fee will be applied to the student's account and the student may make payment(s) directly to the ODR or to the College. Once payment is received in full, the student will be allowed to register for courses and order official transcripts.

TUITION REFUNDS FOR CREDIT COURSES

To qualify for a refund, the student is responsible for initiating a course drop in Admissions and Records by 5 p.m. on the deadline day; see the inside front cover of this publication for drop deadlines. Drop deadline dates are also posted on the student's "Student Detail Schedule," which is available by logging into the student's Bobcat Web Account. Any debt owed to the College will be processed against the refund first, with the net balance remitted to the student within a reasonable processing period.

Students may select a refund method via the Bobcat Web Account. Students select direct deposit into an existing bank account, direct deposit to a cashback Discover checking account, or paper check sent through USPS to the mailing address on file at Central Oregon Community College. If a student does not select a refund method the refund will be processed by paper check.

Short-term course refunds

To receive a tuition refund for courses with only one, two or three class meetings, students must submit a drop form at least seven days before the course begins.

For courses that have four or more class meetings, but do not span the full term, tuition is refundable up to the beginning of the second class meeting. Some specially priced courses do not follow this policy.

Short-term course drops must be submitted Monday-Friday, excluding holidays. Otherwise, there is no refund. See the short term class refund and drop schedule online at cocc.edu in the academic calendar under important dates.

Full-term course refunds

Tuition is refundable up to 5 p.m. on Friday of the second week of the term. No portion of the tuition is refundable after this date. Students who fail to drop a course by this deadline will be responsible for tuition payment.

Students with federal financial aid may owe a repayment if they completely withdraw from courses. See the Financial Aid section for details.

Petitions

In cases of exceptional circumstance, students can request an exception to a published academic policy by submitting the Student Petition form. Such policies may include but are not limited to late drop or withdrawal, late add, refund/waiver of tuition/fees after the published deadline, refund/waiver of late payment or late registration fees, changing to or from an audit and course substitution and/or transfer policies. Students must submit the form and include documentary evidence to support the request if applicable. Each case is decided upon its own merits and the decision of the petition committee is final and not subject to appeal, unless there is information pertinent to the outcome which was not submitted at the time of the initial request. Convenience or lack of familiarity with published policy does not constitute sufficient justification for a petition. The Student Petition form, including instructions on how to complete it, is available in Enrollment Services on all COCC campuses. Please call 541,383,7500 for more information.





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FINANCIAL AID

Central Oregon Community College makes every effort to ensure that students with financial need have access to its programs and courses of study. Students with general questions may find their answers on the Financial Aid web page at cocc.edu/financial-aid. For more specific questions, contact the Financial Aid office located in the Boyle Education Center. Students are encouraged to submit their Free Application for Federal Student Aid (FAFSA) or Oregon Student Aid Application (ORSAA) as soon after October 1 as possible to be considered for maximum eligibility. Students who are not eligible to complete the FAFSA may apply for the ORSAA. A completed ORSAA is required for the Oregon Opportunity Grant, Oregon Promise Grant and certain OSAC Scholarships. Apply for the ORSAA each year beginning October 1. The federal school code for COCC is 003188.

WHO MAY BE CONSIDERED FOR FINANCIAL AID?

In order to comply with general federal eligibility provisions at COCC, students must:

- be U.S. citizens or eligible non-citizens with appropriate documentation;
- have a high school diploma, a GED certificate or complete a home school program at a secondary level;
- be enrolled as certificate-seeking or degree-seeking students with declared majors at COCC;
- maintain satisfactory academic progress;
- certify that they are not in default on a federal student loan and that they do not owe money on a federal student grant;
- and be registered with the Selective Service, if required. In order to receive aid from COCC, students must complete the application materials, including the FAFSA or ORSAA each year, be eligible according to applicable criteria and be enrolled in and attend credit classes at COCC.

HOW STUDENT AID IS DISTRIBUTED

On the second Friday of each term, referred to as the "census date," enrollment is frozen and financial aid is applied to the student's account based on enrollment level. Aid is applied first to tuition, fees, authorized bookstore charges and room/board for on-campus students. Any remaining funds are refunded to the student. Work-study earnings are paid each month through the College's normal payroll process.

SATISFACTORY ACADEMIC PROGRESS

Financial aid academic eligibility standard

To maintain eligibility for financial aid, a student must comply with the following standards. Failure to meet any of the standard requirements may result in denial of federal financial aid at COCC.

Financial aid applicants must have a cumulative GPA of 2.0 and a cumulative completion rate of 66.67 percent of their calculated credits at the end of each term. The term "calculated credits" is defined as credits for which a student has received a financial

aid disbursement and/or attempted hours if the student did not receive financial aid. It also includes transfer credit hours that are submitted for evaluation. If a student fails to meet these eligibility standards, an automatic WARNING status (see below) is enforced. Grades of A, B, C, D and P only will be evidence of successful completion of coursework for purposes of calculating institutional percentage completion rates.

Aid eligibility is limited to 150 percent of a student's program credit length (approximately 135 credits for two-year degree and 75 for one-year certificate) even if a certificate/degree is not earned. As soon as it is clear that a student cannot graduate within this period, he/she becomes ineligible for aid. Change of major or program may not be sufficient reason to extend the credit limit. Students pursuing more than one program at COCC will need to submit an appeal and documentation of its necessity if the maximum limit is reached.

Measurement point/times standard applied

The financial aid academic eligibility standard will be evaluated at the end of each term for financial aid applicants. Eligibility for receipt of financial aid can be denied at any measurement point if the standard is not met.

Good standing status

Financial aid applicants who meet a cumulative GPA of 2.0 and a cumulative completion rate of 66.67 percent of their calculated credits at the time of evaluation are considered to be in GOOD STANDING and are otherwise eliqible for aid.

Warning status

When a student in GOOD STANDING fails to meet the eligibility standards for either completion rate and/or GPA, an automatic WARNING status is enforced. If a student in WARNING status fails to meet the cumulative minimum standards for another term, he/she becomes ineligible for aid.

Failed status

A student in WARNING status who has failed to meet the cumulative minimums at the end of the next evaluation period will not be eligible for aid. This includes grants, work study, loans and institutional awards.

Reinstatement of aid eligibility

A student may apply for a redetermination of eligibility through the APPEAL process. A student may submit an appeal for reinstatement on the basis of mitigating circumstances or after successfully rehabilitating the cumulative 2.0 GPA or better and completion rate of 66.67 percent.

Appeal procedures

Appeals are made through the Financial Aid office, on the official appeal form and will require the following: an explanation and documentation regarding why the student failed to make Satisfactory Academic Progress (SAP) and a statement and documentation as to what has changed in the student's situation that would allow the student to meet SAP in future terms. Appeals are referred to an Appeal Committee. If an appeal is approved, aid eligibility will be restored beginning with the

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current term and not retroactively. Students will typically be allowed one appeal after failing SAP requirements but additional appeals may be approved on a case by case basis.

Current COCC students will typically be allowed to petition for one program change. If approved, the student will be given 1.5 times the amount of remaining credits to finish the requirements for the new program.

Returning students who are seeking a new certificate or degree or who are continuing work on the original course of study will be reviewed on a case by case basis, with consideration given to prior academic history.

Probation status

Successful appeals will allow a student to be placed in PROBATION status. Students must meet the conditions outlined in the appeal decision. If a student is unable to meet these conditions, the student will be ineligible for aid until the cumulative GPA is at least 2.0 and the cumulative completion rate is at least 66.67 percent.

Transfer student requirements

Coursework taken at another institution will count toward the 150 percent maximum calculated credits as well as the cumulative completion rate. If the limit is exceeded, the student must submit an appeal to determine aid eligibility. GPAs from other schools are not considered in COCC's financial aid satisfactory progress policy. Only credits that apply toward the program will count toward maximum calculated credits in the appeal process.

Consortium agreements

Students enrolled in more than one institution under consortium agreements are subject to the home institution's SAP and Title IV return policies.

Repeat coursework

Repeat coursework will be allowed for courses designed to be repeated according to institutional academic policy and procedures. All other course work will be limited to one time payment for retaking previously passed coursework.

Developmental coursework

Students will be allowed an additional 45 calculated credits of developmental coursework. Developmental coursework is defined as WR, MTH and CIS courses under 100 level. However, developmental credits at or above the level that meet program requirements for which a student is currently seeking will not be excluded from attempted credits.

WITHDRAWAL PENALTY/ REPAYMENT REQUIREMENTS

Students who receive federal financial aid and who:

- subsequently completely withdraw, stop attending or are expelled, or
- are enrolled in a combination of module and full-term classes and drop or stop attending all full-term classes

may be subject to a repayment of unearned financial aid. A Title IV return calculation determines, based on withdrawal date, the

amount of federal aid that the student has earned. The amount of federal aid earned, under the federal aid return policy, may be less than tuition and other charges. This means that upon withdrawal, a student may owe COCC tuition and other charges in excess of net student aid. The student is responsible for payment of charges not covered by student aid. Withdrawal from classes after the tuition due date may affect completion rates that are required for Satisfactory Academic Progress.

At the time of complete withdrawal, students can request an estimated Title IV refund/repayment calculation from the Financial Aid office.

APPLICATION PROCEDURE

The Free Application for Federal Student Aid (FAFSA) or Oregon Student Aid Application (ORSAA) may be submitted as early as October 1 for the upcoming Summer, Fall, Winter and Spring award year. Students are encouraged to apply as soon as possible because some funding is limited. Students apply on the web at fafsa.gov. A paper FAFSA is available in pdf format at the same website.

The COCC Financial Aid office can provide additional and detailed information about various financial aid programs. For further information, students should:

- go to the website, cocc.edu/financial-aid;
- send an email to coccfinaid@cocc.edu;
- send a letter to COCC Financial Aid, 2600 NW College Way, Bend, OR 97703; or
- telephone 541.383.7260.

Students should include their name and COCC ID number in all correspondence to the Financial Aid office.

WHAT TYPES OF AID ARE AVAILABLE?

Financial aid is money awarded to students to help them pay for tuition, fees, books, room and board, and transportation while they are working on a certificate or degree. There are four types of financial aid programs available: scholarships, grants, loans and work-study. These funds come from various sources. Program details, including eligibility criteria and dollar amounts, may differ from the following descriptions if applicable laws or regulations governing such programs change after printing of this material.

SCHOLARSHIPS

COCC has three primary types of scholarship programs: COCC Foundation scholarships are based primarily on financial need. Merit scholarships and private scholarships encourage academic excellence and personal achievement.

Central Oregon Community College Foundation scholarships

The Central Oregon Community College Foundation is comprised of a board of directors, administrative staff members and a group of interested and concerned private citizens from throughout the College District who donate their time and money to help COCC's students and to improve College programs. Each year,

the COCC Foundation raises funds to finance a number of scholarships. A scholarship application is required. Applications are submitted online on the College's website beginning in mid-December for the upcoming academic year.

Eligibility is determined by the COCC Scholarship Selection Committee and may be based on need, academic achievement, residency or other donor-specific criteria. The COCC Foundation Scholarship is not available for Summer term.

Merit scholarships

Merit scholarships are awarded on the basis of academic excellence to the highest-ranking seniors graduating from in-district high schools. This scholarship may be renewed at COCC for second-year students with a minimum 3.0 cumulative grade-point average and completion of 6 credits per term totaling 18 credits during their first year.

Private scholarships

For a list of available scholarships and scholarship search engines visit: cocc.edu/financial-aid/scholarships or contact the Financial Aid office. High school seniors are encouraged to explore scholarship opportunities with the help of their high school counselors.

GRANTS

Grants are awarded on the basis of financial need. Grants do not have to be repaid and are another type of gift aid. Student financial aid packages include grant funds whenever student eligibility and funding levels permit. Funding for the grant programs administered at COCC comes from the Department of Education and the state of Oregon.

Federal Pell Grant (limited to 18 quarters)

The Federal Pell Grant program was established to provide financial aid for eligible undergraduate students with financial need. Eligibility for other federal aid is determined after the Pell Grant is taken into consideration. Grant awards in 2016-2017 ranged from \$598 to \$5,815 annually depending on financial eligibility and enrollment. Students with a prior bachelor's degree are not eligible.

Federal Supplemental Education Opportunity Grant (FSEOG)

FSEOG awards are federally funded. COCC is responsible for selecting eligible students and determining the amount of the award. The FSEOG is for undergraduates with exceptional financial need and gives priority to students who receive Federal Pell Grants. Annual FSEOG awards were \$600 in 2016-2017 depending on federal funding allocations.

Oregon Opportunity Grant (OOG)

The state of Oregon provides funds for this grant program. Eligibility is based on financial need as defined by the Oregon Student Access Commission using the FAFSA information and is limited to 12 cumulative quarters. Students must have a minimum of one-year legal residency in Oregon and be enrolled in at least six credit hours each term. Students with a prior bachelor's degree are not eligible. Students enrolled in a course of study leading to a degree in theology, divinity or religious education are not eligible. Oregon Opportunity Grant awards are

set by the state of Oregon. The Oregon Opportunity Grant is not available for Summer term.

LOANS

Note: Students are encouraged to borrow only the amount needed to cover essential educational expenses. Loan entrance and exit counseling are required for student loan borrowers.

Federal Direct Loan Programs (DL)

To be eligible for a federal Direct Loan, students must be enrolled in at least six credit hours and must not be in default on a prior loan or owe a grant repayment. All loans must be repaid. Students must sign a promissory note (a legal agreement to repay) with the Department of Education before any loan money can be disbursed. The promissory note contains detailed information about the terms, responsibilities and repayment of the loan. Because students must repay educational loans, this kind of assistance is generally referred to as self-help aid. Federal Direct loans are accessed through the normal financial aid process. For details, go to cocc.edu/financial-aid/loans.

Three specific types of Federal Direct Loans are available:

• Federal Direct Subsidized Loan program

The Direct Subsidized Loan provides fixed interest (currently 3.76%) federal loans through the Department of Education. Maximum annual loan limits are based on financial need, but cannot exceed \$3,500 for freshmen and students in certificate programs and \$4,500 for sophomores. Effective July 1, 2013, new Direct Subsidized Loan borrowers are limited to borrowing up to 150 percent of the length of their current academic program. Loan repayment begins six months after a student ceases to be enrolled at least half time. Monthly payment amount and length of repayment depend on the cumulative amount borrowed, but will be set up with an initial 10-year repayment.

• Federal Direct Unsubsidized Loan program

The Direct Unsubsidized Loan provides fixed interest (currently 3.76%) federal loans through the Department of Education. The Direct Unsubsidized Loan is available to students who do not qualify for some or all of the need-based Direct Subsidized Loan. Awards cannot exceed \$3,500 for freshmen and students in certificate programs and \$4,500 for sophomores for an academic year. In addition, dependent students as defined by the Department of Education are eligible to borrow up to \$2,000 in Direct Unsubsidized Loans and independent students, up to an additional \$6,000. Student borrowers will be responsible for payment of the interest that accrues on these loans while they are in school and during periods of deferment. Loan repayment begins six months after a student ceases to be enrolled at least half time. Monthly payment amount and length of repayment depend on the cumulative amount borrowed, but will be set up with an initial 10-year repayment.

• Federal Direct PLUS Loan

The Direct PLUS Loan is a non-need based, loan to parents. Loans may range up to the published cost of attendance for the institution minus other student aid. A loan origination fee of 4.276 percent is deducted at the time of disbursement. The

annual interest rate is fixed at 6.31 percent. Parent borrowers will also be evaluated for adverse credit history. For more information on the Direct PLUS visit studentaid.gov.

WORK-STUDY AND STUDENT EMPLOYMENT

Many students help finance their education by securing part-time employment either on or off campus. Since students work in order to receive funds from employment, this kind of assistance is considered a form of self-help aid.

COCC Career Services maintains a list of off-campus job opportunities for students seeking employment outside the Federal Work-Study program. Check their website for more information, cocc.edu/cap/career-services/student-employment.

Federal Work-Study (FWS)

This program provides employment opportunities to students who apply for financial aid and are eligible for the Federal Work-Study program. Availability is based on federal fund limits. In addition to providing income, students may acquire work experience in jobs related to their academic interests.

Students cannot be placed in a work-study job until they receive a financial aid award that includes work-study. Students will not receive any Federal Work-Study funds until they are actually placed and working in a work-study job. Due to the need to match job requirements with student skills, the College cannot guarantee employment to all eligible FWS recipients.

At COCC, work-study jobs provide experience in a variety of fields including physical education, library work, the sciences, health service and office work. Community service jobs are also available. For more information, visit cocc.edu/financial-aid/work-study.

VETERANS EDUCATION BENEFITS

Students who believe they may be eligible for veterans educational benefits, such as a veteran or a widow or dependent of a 100% disabled or deceased veteran, should contact a veterans certifying official at 541.383.7264.

All veteran students at COCC must meet the same academic standards as other students to remain in good standing. However, to remain eligible for educational benefits, veterans and other students eligible for these benefits must comply with the following additional requirements:

Notification of enrollment changes

It is the responsibility of the registered veteran to notify the veterans certifying official when any changes are made to their schedule (add or drop classes). Failure to do so may result in incorrect payments to the student. Overpayments must be repaid.

Program of study

To be eligible for veterans educational benefits, students must be enrolled in a degree or certificate program offered by COCC and approved by the state approving agency. Only courses required for that degree or certificate program may be certified for benefit payment.

Transfer of credits

Veterans who enter as transfer students, or who have completed any college-level coursework, are required to have all official transcripts forwarded to Admissions and Records for evaluation. Certification will not continue past the first term if transcripts from all other sources (including military transcripts) have not been received by COCC.

Credit hour requirements

To receive full-time pay, students must take a minimum of 12 credit hours per term; for three-quarter time pay, students must take nine to 11 credit hours per term; and to receive half-time pay, students must take six to eight credit hours per term. Chapter 33 students have different requirements.

Satisfactory academic progress

Students using VA educational benefits at COCC must earn at least a 2.0 GPA each term to maintain good standing. The terms of COCC's Academic Warning Policy for all students, including those using VA educational benefits, are outlined on pages 24-25 of the catalog. Academic warnings are reported to the VA each term. If a student using VA educational benefits receives a Fourth Academic Warning, their benefits will be terminated at COCC and they will not be eligible for reinstatement for one calendar year, in accordance with the Academic Warning Policy. Please note: Students receiving federal financial aid are also bound by the Satisfactory Academic Progress (SAP) policy upheld by COCC's Financial Aid office. For more information, refer to pages 11-12.

Institutional responsibility

COCC is responsible for reporting to the VA if the student is no longer pursuing his or her educational objectives as certified.

Veteran tuition rates

In accordance with Section 417 of Public Law 114-315, and 38 U.S.C. 3679(c) as amended, the following individuals shall be charged the in-state tuition rate at Central Oregon Community College, or otherwise be considered a resident for tuition and fees purposes. Individuals not considered in-district students for the purposes of tuition and fees will be charged the "non-resident veteran" tuition rate, which is calculated to be the in-district tuition rate plus 50 percent of the difference between COCC's in-district rate and out-of-district/in-state rate. This rate complies with Oregon legislation and the U.S. Department of Veterans Affairs requirements of 38 U.S.C. 3679(c) as amended.

• 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 his/her formal state of residence) and enrolls in the school within three years of discharge or release from a period of active duty service of 90 days or more.

(GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). For more information see the GI Bill Trademark terms of use.)

- Anyone using transferred Post-9/11 GI Bill® benefits (38 U.S.C. § 3319) who lives in Oregon while attending a school located in Oregon (regardless of his/her formal state of residence) and enrolls in the school within three years of the transferor's discharge or release from a period of active duty service of 90 days or more.
- Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same school. The person so described must have enrolled in the school prior to the expiration of the three year period following discharge or release as described above and must be using educational benefits under either chapter 30 or chapter 33, of title 38, United States Code.
- Anyone using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311(b)(9)) who lives in Oregon while attending a school located in Oregon (regardless of his/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 his/her formal state of residence) and the transferor is a member of the uniformed service who is serving on active duty.
- Anyone who is eligible for and using educational assistance under chapter 35 (Dependents' Educational Assistance Program).





REGISTRATION & PREPARING FOR CLASSES

PLACEMENT

All COCC students taking credit classes must provide writing and math placement information to COCC before they can register for classes. Students may meet the placement requirement in one of the following ways:

- Take the placement test: COCC uses the College Board's ACCUPLACER. This test uses a computer-based format with unlimited time and immediate scores. The placement test assesses academic skills and helps place the student into the right level of courses and may meet a program/course prerequisite. Placement scores are valid for two years.
- Complete a college level reading, writing and math course with a "C" or better at another regionally accredited college and have submitted transcripts prior to advising and registration.
- Provide placement scores/placement from another college within the last two years and have submitted a copy of the placement prior to advising and registration; or
- Have an associate, bachelor's or higher-level college degree.

Students are not required to show placement if they are planning to take only HD 110 Career Planning, HD 190 Latino Leadership, studio art, world language, computer skills, music performance or HHP activity courses.

Visit the COCC website, cocc.edu, for more information about the placement process, how to prepare, how to schedule a placement testing appointment and other important placement information.

ADVISING

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Once placement is provided, all certificate- and degree-seeking students meet with an academic advisor. For new students, dates and times of group advising options are available on the COCC website. Current students should contact their advisor directly to schedule an advising appointment. Students can confirm the name of their advisor by contacting the CAP Center (located in the lower level of the Barber Library) or by logging in to their Bobcat Web Account. All students who participate in group advising sessions will be emailed the name of an individual academic advisor, based on the major stated on their admission application, shortly after the start of each term. Students can change their advisor by contacting the CAP Center, at 541,383,7200.

Note: Current students may choose to be self-advised, which means that the advising requirement is waived and students are responsible for choosing their courses and making sure that those courses fit their degree goal. To apply for and review the requirements for receiving self-advising status, visit the COCC advising website, cocc.edu/CAP.

REGISTRATION

After submitting an application for admission, providing placement and meeting with an advisor (if degree-seeking), students may register for courses based on the dates and times listed on the COCC website. The registration schedule for credit students is based on enrollment status and number of credits earned at COCC. Degree-seeking students who have attended credit classes at COCC in Fall, Winter or Spring terms are eligible for priority registration. Transfer credits may meet some program requirements but are not counted toward "earned credits" for registration purposes. Students may view the priority registration schedule at cocc.edu/registration-home. Students wishing to pursue a cohort program without a selection process must meet the basic prerequisite competencies and will be placed in the program according to seat availability on a first-come, first-served basis according to the priority registration schedule.

Student registrations are complete only when courses are web or data-entered into COCC's computer system. A student may not register if a debt is owed to the College. Students must be registered in order to attend class. Students may not take more than 19 credit hours per term without permission from Admissions and Records.

Students will be withdrawn from a course if they have not completed the prerequisite course(s) with a "C" grade or better from a prior term.

ADDING AND AUDITING COURSES/ WAIT LISTS

Courses may be added until 7 a.m. on the first day of the first class session. After this time, an instructor's permission is required to add a course. Students may add courses via their Bobcat Web Account (with electronic instructor approval) or in person at the Boyle Education Center, or at the Redmond, Madras and Prineville Campuses.

Students may not begin attendance in a new class after the first week of the term.

Note that students may not register for two sections of the same course. If students wish to register for courses that overlap in time, they must receive permission from both course instructors.

Auditing courses

Full-term courses may be changed to/from audit through the seventh week of the term. Such changes must be done in person or by calling Admissions and Records. Audited courses do not apply toward financial aid. Note: Different deadlines exist for short-term courses; contact Admissions and Records, 541.383.7500, for details.

Wait lists

Students who are on a wait list for a course will automatically be registered into the course if a seat becomes available. The automated wait list registration process turns off at 5 p.m. the Friday prior to term start. (For information on short term classes. please contact Admissions and Records.) Students will receive a message in their COCC email account notifying them they have been registered for the course and are now responsible for applicable tuition/fees. Students who are not automatically registered in the course and remain on the wait list can take a registration form to the first class session. If a seat is available, the instructor must sign the registration form. The student submits the form in person to Admissions and Records up to two business days after signature, to enroll in the class. Following that time, the form is no longer valid. Alternatively, the instructor can submit electronic instructor approval so the student can add the class via the student's Bobcat Web Account.

ATTENDANCE/ ADMINISTRATIVE WITHDRAWAL

In order to assure that all available class seats are filled with students—both registered students and students from the waiting lists—COCC enforces an attendance policy during the first week of the term.

To maintain enrollment in each class, the student must attend the first class meeting and 100 percent of the first week's class and lab meetings. Students in online classes must complete the attendance requirement outlined in the syllabus. For classes that do not span the entire term the student must attend the first class session. Students who do not do so, will be administratively withdrawn from that class by the instructor at the time class roll is taken. If this results in a tuition refund, the refund will be processed within three weeks. If students are unable to attend a session within the first week due to extenuating circumstances, they must contact the instructor by phone, email or in person prior to the first class meeting if they wish to avoid administrative withdrawal. Allowing students to remain in the course is solely at the discretion of the instructor.

The College is not responsible for liabilities associated with the administrative withdrawal of students.

The administrative withdrawal policy does not relieve students from full responsibility for officially dropping a course within the given deadline to not incur tuition charges and to not receive a grade for the course.

DROPPING COURSES/ COMPLETE WITHDRAWAL

Students registered in courses are considered to be in attendance. Students who stop attending class but do not drop the class will receive a grade for that course and will owe all tuition and fees. This grade will be a permanent part of the student's academic record.

To drop one or more courses, students should complete the drop section on a registration form and submit it in person at the Boyle Education Center or at the Redmond, Madras or Prineville Campuses. Or students may call Admissions and Records, 541.383.7500, to drop a course over the phone.

Short-term courses

- For a refund or credit for courses with only one, two or three class meetings, students must submit drop a course at least seven days before the first class meeting.
- For a refund or credit for courses with four or more class meetings, but which do not span the full term, students must drop the course prior to the start of the second class.

Full-term courses

Students may drop a course during the first two weeks of the term and receive a full refund, and no grade will appear on the student's transcript. Between the third week and the end of the seventh week of the term, students can drop a course; no refund is available, but no grade will appear on the transcript. No withdrawals will be accepted after this time or after a course has ended. Students who wish to withdraw from a full-term course between the eighth week of the term and the Wednesday before finals week must receive instructor approval. A "W" will appear on their transcript and no refund is available. Students should communicate with the instructor and refer to the course syllabus to determine the conditions under which a "W" can be granted. See the academic calendar on COCC's website for specific dates.

Complete withdrawal

Students receiving federal financial aid may owe a repayment if they completely withdraw from courses. See the Financial Aid section for details.

Withdrawing due to Active Military Duty

Active duty, guard and reserve military personnel (Army, Navy, Air Force, Marines and Coast Guard) who are enrolled at Central Oregon Community College and whose academic progress is interrupted due to deployment or activation mid-term may withdraw without tuition penalty. A student currently in a course will not be charged for the course and the registration will be voided with no indication on the transcript. Students must submit a copy of their military duty assignment orders verifying deployment or activation along with their request to withdraw from the course to Admissions & Records. Copies of the orders must also be submitted to the COCC VA Certifying Officer if any military benefits are being used. If the service member intends to return to school, the person will be readmitted with the same academic status as when last attended. This policy does not apply to retired military personnel or dependents.

Cancelled classes

The College reserves the right to cancel or postpone a class. However, every effort will be made to cancel the class well in advance of the intended start date allowing students to reschedule or make other arrangements. Students registered in classes that are cancelled will be notified via their COCC email account and issued a full refund.

STUDENT RESOURCES

Central Oregon Community College offers a variety of academic and support services designed to foster student success. All prospective students are encouraged to contact Admissions and Records, 541.383.7500, or cocc.edu, for information and assistance in planning their education at COCC.

ACADEMIC ADVISING (CAP CENTER)

Academic advising at COCC is provided by both the CAP Center (Career services, Academic advising and Personal counseling) and by full time faculty members in each department. The purpose of academic advising is to guide students toward achieving their educational goals and to help students become self-reliant in understanding College policies and practices. Various advising requirements are in place to support this purpose.

Prior to registering for classes, new certificate- and degree-seeking (CDS) students and students who have not attended for more than a year participate in small-group advising sessions. After the first advising session, students are assigned an advisor in their declared major and emailed the advisor's contact information. Students are required to meet with their advisor to develop long-range academic and career plans before the next term's registration. All CDS students are required to meet with an advisor prior to registration if they participated in a group advising session the previous term, or as determined by the advisor and at least once a year.

COCC provides an online tool, GradTracks, to help students and their academic advisor track progress toward graduation. GradTracks allows students to see how completed courses are applied toward their certificate or degree and identifies requirements and courses still needed to graduate. Students can also explore other certificate and degree options. Students can access GradTracks by logging on to their Bobcat Web Account and selecting the Student Services & Financial Aid Tab; clicking on the GradTracks link and again on the GradTracks button. Students must be taking credit classes in order to view information in GradTracks.

Students are responsible for monitoring their advising requirement and for completing the advising steps in a timely manner. COCC recommends that students plan their advising appointments well in advance of the opening of registration. Students who want to find their assigned advisor's name and contact information and see if they have an advising requirement for an upcoming term, should look in their Bobcat Web Account. To do so, go to cocc.edu and select "Student Login." After logging in, select "Student Services and Financial Aid," then "Registration," and then the "Can I Register for Credit Classes?" page.

Students may request a specific advisor or a change in advisors if they change their major. Students not seeking a certificate or degree are not required to meet with an advisor, but are welcome to meet with a CAP Center advisor. Contact the CAP Center, Barber Library lower level, 541.383.7200, for advising options.

ASSOCIATED STUDENTS OF COCC (ASCOCC)

ASCOCC provides students with numerous opportunities for governance, advocacy and social programming. The council is responsible for allocating student fees, appointing students to campus governing committees, advocating for the entire student body and providing diverse social and educational programs and services. The ASCOCC council offers a limited number of paid positions each year.

Contact ASCOCC, 541.383.7595 or visit the website, cocc.edu/ASCOCC, to find out about current activities and how to get more involved with the student council.

BOBCAT WEB ACCOUNT

COCC students will use their online Bobcat Web Account to access account information including balances, financial aid, registration, degree requirements, personal contact information, etc.

BOOKSTORE

The Campus Bookstore, located in Newberry Hall on the Bend campus, sells textbooks, class materials, educational and personal supplies, gifts, convenience food and beverages. Textbooks can be ordered 24 hours a day at bookstore.cocc.edu. For more information about the Bookstore, call 541.383.7570 or visit its website, listed below.

Redmond Campus Bookstore (Building 1, Room 111) sells textbooks, class materials and educational supplies. Please visit bookstore.cocc.edu for hours or call 541.504.2929.

THE BROADSIDE STUDENT NEWSPAPER

The Broadside is a student-run newspaper serving COCC and the larger community. The staff publishes a minimum of 16 issues per school year with a circulation of 1,000 to campus and other locations around Central Oregon. The newspaper provides a forum for student free speech as well as a focus on college news, features and sports. The newspaper's website, TheBroadsideonline.com, offers advertising opportunities and ongoing, updated year-round news information.

Each year The Broadside offers dozens of student employment opportunities in reporting, editing, design and layout, multimedia communications, photography and journalism leadership. All students are welcome to apply for the paid positions. For more information, call The Broadside advisor, 541.383.7252, or email The Broadside editor-in-chief at broadsidemail@cocc.edu.

CAMPUS PUBLIC SAFETY

The COCC department of Campus Public Safety (CPS) provides 24/7 patrol and response services with state-certified public safety officers. Officers respond to calls for assistance, crime reports, traffic accidents, safety escorts, policy violations, medical emergencies and also enforce parking, traffic and policy regulations. The department provides information on crime prevention and personal safety. Crime statistics and annual reports are available on the COCC website (cocc.edu/public-safety/federal-campus-crime-reports) or by calling the CPS office.

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Please report all incidents to the department at the numbers below. Active emergencies should be reported first to 9-1-1, then call the appropriate number: Campus Public Safety can be reached 24 hours each day, 7 days per week at 541.383.7272 or ext. 7272 from campus phones.

All students who park on campus must register their vehicles and display registration decals. Parking, traffic and other regulations may be found in the Parking and Traffic Regulations handbook available, along with registration decals, in the Boyle Education Center at either the Campus Public Safety office or in the Information Office. There is no charge for parking permits. Certain parking areas on campus are reserved for guests, carpool commuters, staff and vehicles displaying valid disabled parking decals.

Appropriate emergency preparedness and response to critical incidents on campus is a cornerstone of the College's safety program. Posted in classrooms are emergency incident response directions and phone numbers. Emergency assistance phones and towers are located throughout the campus and connect persons directly with the Campus Public Safety department 24/7.

Prevention training opportunities are offered throughout the year to provide students and staff with information on active violence, emergency preparedness, self-defense and more. These programs are advertised through email communications, ASCOCC and other media. The College's emergency preparedness and response plans and directions are located on the Public Safety webpage at cocc.edu/public-safety.

CAP CENTER (CAREER SERVICES, ACADEMIC ADVISING, PERSONAL COUNSELING)

The CAP Center offers a variety of student services to support COCC students in setting and meeting their educational goals. The CAP Center is located in the lower level of the Barber Library. Various services are offered on all four COCC campuses. Call the CAP Center for more information about each of these services, 541.383.7200, or go online, cocc.edu/CAP.

CAREER SERVICES (CAP CENTER)

COCC Career Services assists students with career planning and exploration, developing job search skills and finding full-time and part-time employment (including work-study placement). Local employers can use these services to recruit students and graduates with the specialized knowledge and skills needed in today's workplace. Career Services is part of the CAP Center, located in the lower level of the Barber Library and offers personal appointments, print-based and web-based resources and workshops open to COCC students and alumni. Call the CAP Center, 541.383.7200, or visit cocc.edu/CAP/career-services for more information.

CLUB SPORT/INTRAMURAL AND RECREATION PROGRAMS

The COCC Club Sport/Intramural and Recreation programs offer a wide range of traditional and nontraditional sports and recreational activities along with special events and tournaments for people of all interests and abilities. The spacious Mazama complex features top-flight sports and recreation facilities.

COCC Club Sports provide opportunities for competition, skill development, leadership and recreation. Clubs are organized by students with guidance from coaches, students, faculty, staff and community members. Current clubs include alpine ski racing, baseball, basketball, bowling, cycling, golf, Nordic skiing, rugby, soccer (indoor and outdoor), swimming, volleyball, running and triathlon.

Organized intramural activities are available at convenient times for COCC students, faculty and staff. The emphasis is on having fun, making friends and staying fit. Some activities feature friendly competition while others are purely recreational. Activities include basketball, bench-press tournaments, cycling (recreational and races), indoor soccer, day hikes, dodgeball tournaments, flag football, golf tournaments, running events, soccer (outdoor), softball (coed), swimming, table tennis, tennis and volleyball.

COCC promotes lifetime fitness for everyone. Facilities are available for drop-in use throughout the week for a small perterm user fee. Informal recreational activities and organized sports are available to all students. Passes for local recreation facilities are available to students at no cost (swimming and bowling). Call 541.383.7794 or visit online at cocc.edu/sports for more information.

CLUBS

ASCOCC offers many opportunities for students to participate in campus clubs. Clubs must involve at least four current COCC students, have a faculty or staff advisor and create a budget. Those having questions or ideas about forming a student club or participating in an existing club can contact ASCOCC at 541.383.7595 or visit its website: cocc.edu/student-life/ASCOCC/clubs-and-programs/clubs.

COMPUTER LABS

COCC offers a variety of computing resources to students registered in its credit classes or Community Learning classes.

Drop-in computers are located on the Bend campus in the Barber Library, Pioneer Hall, Boyle Education Center and on the Redmond Campus in Building 3 and the Redmond Technology Education Center. Additionally, the COCC Madras and Prineville Campuses have computer labs that are scheduled for classes and drop-in use. There are computer labs specific to Math, Networking, Computer-Aided Drafting and Design, Science and Geographic Information Systems on the Bend campus and additional computer classrooms located on all campuses. All drop-in computer labs are staffed by student workers who offer assistance logging into student accounts and answering general questions.

Computers at COCC use the Windows operating system and most Microsoft Office programs along with class-specific programs. Drop-in labs are equipped with black-and-white and color laser printers, flatbed scanners and adaptive workstations. All non-classroom printing has a pay-to-print fee. Payment is made by using a COCC student ID card or a COCC print card purchased in one of the computer labs.

COPY CENTER AND MAIL SERVICES

The Copy Center, located in the Bookstore (Newberry Hall) on the Bend campus, is a full-service copy center. Services include black and white as well as color copies, binding and general mail services including UPS. For more information about the Copy Center and/or Mail Services, call 541.383.7579.

COUNSELING (CAP CENTER)

Professional counselors are available at no charge to help COCC students identify and resolve personal issues. Counselors can help with stress management, depression, test anxiety, eating disorders, substance abuse, relationship issues or any other problems that may affect college success. All students who are enrolled in at least one credit or in Adult Basic Skills/English Language Learning courses are eligible to receive short-term counseling at no charge. For further information visit cocc. edu/CAP/personal-counseling. Counseling appointments are confidential and can be made through the CAP Center (Career services, Academic advising and Personal counseling) in the lower level of the Barber Library or at 541.383.7200.

EMAIL ACCOUNT

COCC provides qualifying COCC students with an email account via Microsoft Office 365. COCC's primary means of communicating with students is through their COCC email account. This includes billing statements, registration and wait list information and important announcements. Students are expected to regularly check their COCC email account.

To access your Office 365 email account, visit the COCC homepage at cocc.edu and click the "Student Login" button in the upper right-hand corner. Next, click the "Web Email" button, to access the login page and Cloud 365 information page. Select the COCC email "Login Now" icon on the center left of the page.

Students can find their username and password at cocc.edu by clicking on the "Student Login" button in the upper right-hand corner, then the "Bobcat Web Account" button. Once logged in, select the "Personal Information" link followed by the "View Email Address(es)" link. If a COCC email address has been assigned, it will be displayed on this page, along with a comment, which includes the initial password for campus computers, email and Blackboard. Passwords are case sensitive. If you need help with your password, see cocc.edu/student-email-login.

FOOD SERVICE AND CATERING

Quality food service is available across campus, with the Bend campus dining services available in Coats Campus Center. For details on locations, prices and options, visit the Food Service website at coccdining.com or contact Melissa Miller, the Food Service Director, melissa.miller@sodexo.com.

HEALTH INSURANCE

Central Oregon Community College does not offer student health insurance. At the same time, the College does not require students to have health insurance coverage in order to enroll in courses or to participate in related activities and events. Students are responsible for their own health insurance coverage. The College does not have a student health clinic on campus. Limited health services are available for free or at a reduced cost in the local community. Links to health resources in the community are available on the Student Health Insurance webpage cocc.edu/student-life/student-resources/student-health-insurance.

HOUSING – ON CAMPUS

COCC's new Wickiup Residence Hall houses 330 students each year in a coed, academically focused, on-campus housing environment. Centrally located near Barber Library, Mazama Gym and the Coats Campus Center, the Wickiup Residence Hall offers four-person suites with either two double bedrooms or four single bedrooms. Each suite includes a common living space, shower and bathroom shared by suitemates. Amenities include local cable, WiFi network access, laundry room, community kitchen, study lounges and recreational facilities along with a full meal plan. Contact the Housing and Residence Life office at 541.383.7545, or visit cocc.edu/housing for more information.

Space in the Wickiup Residence Hall is limited. Students seeking accommodations are encouraged to submit a Housing Application at their earliest convenience. All paperwork and deadline dates are available online. Upon completing a Housing Application, students must be prepared to pay a housing application fee; to guarantee a space in the hall, students will need to sign a Housing Agreement and pay a security deposit as well as down payment. The room and board rates for the 2017-18 academic year (Fall, Winter, Spring) are:

	Double Room - Room/Board		Single Room - Room/Board			
Term	Basic Meal	Std. Meal	Pref. Meal	Basic Meal	Std. Meal	Pref. Meal
Fall	\$3,444	\$3,567	\$3,691	\$4,345	\$4,468	\$4,592
Winter	\$3,444	\$3,567	\$3,691	\$4,345	\$4,468	\$4,592
Spring	\$3,444	\$3,567	\$3,691	\$4,345	\$4,468	\$4,592
TOTAL	\$10,332	\$10,701	\$11,073	\$13,035	\$13,404	\$13,776

HOUSING – OFF CAMPUS

Availability of off-campus housing varies from season to season and year to year. The office of Student Life accepts postings electronically on its website from the community for off-campus housing opportunities. Available housing options include apartments for rent, rooms for rent in homes and homes for rent.

To view current submissions visit cocc.edu/student-life/student-resources/off-campus-housing. This website also provides other community resources that may be helpful in locating off-campus housing. The College provides this information as a service to students; however, it does not assume responsibility for screening rentals.

LATINO PROGRAMS

The Latino Program assists in the recruitment, retention and academic success of immigrant and native Latino students. The program coordinator assists students to meet their educational goals and contribute to the campus community. The coordinator advises the Latino Club with planning and implementation of relevant educational programs and social activities.

For more information, in English or Spanish, contact the latino program coordinator at 541.318.3726. The Latino Program website is at: cocc.edu/multicultural/latino.

iAVANZA! (Moving Forward!) Latino College Preparation Program: The goal of iAVANZA! is to encourage Latino/a youth to graduate from high school and to pursue higher education, and ultimately, to obtain a rewarding career and contribute to their communities. The program offers a dynamic curriculum that integrates leadership, college preparation and culturally relevant themes for the Latino/a students.

For more information, contact the iAVANZA! Program Coordinator at 541.318.3717. The iAVANZA! Program website is at: cocc.edu/multicultural/avanza.

LIBRARY

COCC's three-story, 72,000-square-foot Barber Library opened in March 1998 and serves the students, faculty and staff of all Central Oregon Community College campuses.

The Barber Library collection features more than 200 online resources, over 80,000 books (both print and electronic), thousands of e-journals, a browsing print journal collection, DVDs and more than 10,000 streaming videos. In addition, COCC students, faculty and staff are able to checkout technology like laptops, iPads, cameras and Kindles. The Library is a selective depository for U.S. federal documents.

Current, credit-enrolled COCC students, faculty and staff can access most of the Library's electronic resources from off campus locations. Besides the rich collection of information resources, research help is available to all patrons in person, on the phone, by email and by chat. Barber Library has an active instructional program for the development of information literacy skills, including the offering of three foundational, credit courses (LIB 100, LIB 127, LIB 227).

COCC is a member in the Orbis Cascade Alliance, a consortium of academic libraries in the Northwest that provides services such as Summit Borrowing and database licensing opportunities. Current, credit-enrolled students, faculty and staff of COCC may search for and place requests on 30 million summit items accessible via the Library's main webpage, cocc.edu/library. Materials are delivered for pickup at the Library circulation desk or COCC campus of their choice within a few working days.

The Library's information commons has 40+ computers and wireless access is available throughout the building for students, faculty and staff, as well as community patrons and campus visitors. Group study rooms, designated quiet study areas and comfortable seating provide students plenty of options for the perfect study space.

Each year the Barber Library hosts art exhibitions in the Rotunda Gallery, as well as a few literary events.

MULTICULTURAL ACTIVITIES

The office of Multicultural Activities promotes the development of a respectful and inclusive campus community by sponsoring cultural events and educational programs.

The Multicultural Center, located in Room 217, Coats Campus Center, fosters cross-cultural understanding and respect by providing a welcoming setting for learning, sharing and connection. For more information, contact the director of multicultural activities at 541.383.7412 or visit the Multicultural Activities website at cocc.edu/multicultural.

NATIVE AMERICAN PROGRAM

The Native American Program focuses on the recruitment and retention of Native American students. The program coordinator offers students individualized assistance as they navigate academic and administrative aspects of student life. As the advisor to the First Nations Student Union, the coordinator supports club members as they volunteer in the community, plan educational and social events and organize the annual Salmon Bake.

For more information, contact the Native American program coordinator at 541.318.3782 or visit the website: cocc.edu/multicultural/native-american.

NETWORK ACCOUNT

The student network account is a free account that permits students to connect to the College's computer network system. Once logged on to COCC computers, users will find their personal folder (identified with their name) on the desktop. Each folder contains 200 MB of space students can use for storage. Students are responsible for reading and adhering to COCC's Acceptable Use of Technology Resources policy. See "Acceptable Use of Information Technology Resources.pdf" at cocc.edu/its.

PUBLIC TRANSPORTATION

In addition to the free campus shuttle bus, Cascades East Transit (CET) offers local transit service throughout the region for the general public. For more information visit cascadeseasttransit.com.

COCC offers a discount bus pass program. Students can purchase a monthly regional pass for \$10 and a monthly community connector pass for \$40. Passes may be purchased at the Information Desk located in Boyle Education Center and Coats Campus Center on the Bend Campus. Passes are also available at the Redmond, Madras and Prineville campuses. For more information about the discount program, please call Student Life at 541.383.7590.

SERVICES FOR STUDENTS WITH DISABILITIES

COCC strives to make available to all students the opportunity for an excellent and rewarding education. The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 provide federal guidelines which help the College ensure equal access to students with qualifying, documented disabilities at all of its campuses and Community Learning locations. COCC is committed to making physical facilities and instructional programs accessible to all students. Awareness of students'

needs and goals helps to create an atmosphere in which learning and growth can occur. Faculty and staff are encouraged to refer students for consultation and determination of eligibility. For more information, visit the SSD website at cocc.edu/disability-services or drop in to the office at the Boyle Education Center, rooms 115, 124 and 125.

SHUTTLE BUS

A free campus shuttle services the Bend campus. The 12-person bus features two bike racks and automatic snow chains. Shuttle maps with pick-up and drop-off times are available in the Boyle Education Center, Campus Services office, Coats Campus Center and online at cocc.edu/campus-services/campus-shuttle.

STUDENT LIFE

Participation in campus activities beyond the classroom is encouraged in order to complement college academic programs and to enhance the educational experiences of students. Through exposure to and participation in intellectual, vocational, cultural, recreational and social programs, students may explore their potential as individuals and develop meaningful relationships with others. For more information, contact the office of Student Life in the Coats Campus Center, 541.383.7590 or visit cocc.edu/student-life.

STUDY ABROAD

The College seeks to provide opportunities for students to study abroad while earning COCC transfer credit. For specific offerings, visit cocc.edu/study-abroad. Current programs include:

- Fall Quarter in Barcelona. Students experience Spanish life, language and culture while living and studying in bilingual Barcelona, the heart of Catalonia. Students live in shared apartments among other international students, while enjoying a seaside temperate climate in the home of Gaudi's fanciful art and architecture.
- Other programs may be announced through our partnership program for study abroad, the Oregon International Educators' Consortium. Please check the website for updates: cocc.edu/study-abroad.

For questions about COCC's Study Abroad program, contact Sara Henson, 541.330.4357, shenson@cocc.edu.

TUTORING AND TESTING CENTER

The Tutoring and Testing Center is located in the lower level of the Barber Library with the Tutoring Annex in the back of the first floor of the Library. The science tutor coordinator operates science tutoring in both embedded and drop-in modes from the science building. Hours of operation are available at cocc.edu/tutoring-and-testing. Math tutoring occurs in the Barber Library with schedules posted on the department's website; proctored testing is available at the Bend campus, and to a more limited degree on the Redmond, Madras and Prineville campuses. Math and writing tutoring is available on the Redmond, Madras and Prineville campuses along with a variety of other subjects.

Tutoring

Tutoring services are free to COCC students for the COCC courses in which they are currently enrolled. Drop-in tutoring is available for math, writing, sciences, world languages, business administration, computer science and the social sciences, as well as Career and Technical Education subjects. Tutoring is conducted on both an individual and a group basis. Tutor-led study groups are also an option for some key courses. Resources include printed materials, textbooks and graphing calculators. Science tutoring is held primarily in the science building, room 130. The Writing Center and computer science tutoring are located in the Tutoring Annex on the first floor of the Library at the Bend campus. Students are encouraged to bring in their writing assignments for one-on-one help with any stage of the writing process. On-line tutoring is available through the Western eTutoring Consortium and accessed via the department's website. Math and writing tutoring is available on all four campuses.

Testing

The COCC Testing Center is a regional testing center serving a diverse constituency of students and community members. A charter member of the Consortium of College Testing (nctatesting.org/cctc) and a certified PearsonVUE (PearsonVUE. com), Certiport and CLEP site, the Testing Center's mission is to provide opportunities for Central Oregonians to obtain academic, professional and standardized testing locally. GED testing for the region is also available via the PearsonVUE Testing Center on the Redmond campus in Building #1 (cocc.edu/tutoring-andtesting/GED-testing) and in the Bend campus testing center. For a current list of tests offered, visit the COCC Tutoring and Testing Center's website listed below. For more information about tutoring and testing services, contact the Tutoring and Testing Center at 541.383.7539 or visit cocc.edu/tutoring-and-testing.

TRANSCRIPTS

Transcripts must be requested by students via their secure Bobcat Web Account, in person in the Admissions and Records office, or in writing. Transcripts may be requested in advance and held until after grades or degrees are posted. The transcript processing fee must be paid before transcripts are mailed. No transcript requests will be processed during the first week of each term.

Processing fees

Online request (processed next business day) \$5 per transcript
In-person, faxed or mailed request (processed 7-10 working days)
first transcript \$5
each additional transcript ordered at same time \$1
Rush or faxed transcript \$5 additional

COCC reserves the right to withhold transcripts from students who are in debt to the institution. For OSU, Cascades dual admit students, official transcripts will be available between COCC and OSU, Cascades at no charge to the student.

Notice

The student services and activities descriptions in this catalog are valid for this academic year. Student services and activities are evaluated yearly to assess student needs and available College resources.

ACADEMIC INFORMATION

This section provides details concerning what each student needs to know about the College's academic expectations. For answers to specific questions about College policies, please contact Enrollment Services at welcome@cocc.edu or 541.383.7500.

GRADING POLICY

End-of-term grades are available via the student's Bobcat Web Account only and will not be mailed or given out over the phone.

Only the grades in the following list may be assigned. All courses graded with a P, NP, W, X, I and IP do not apply to GPA.

To calculate GPA, multiply the number of credits for each course by the grade points for the grade received in that course (grade points listed below). Add these numbers together and divide by the total number of graded credits for that term (include "F" grades and exclude P, NP, W, X, I and IP grades).

Grade points

A 4.0 outs	tandina ne	rformance

A- 3.7 superior

B+ 3.3 excellent

B 3.0 very good

B- 2.7 good

C+ 2.3 better than satisfactory

C 2.0 satisfactory

D 1.0 passing

Note: Courses in which "D" grades are earned may not be used in the AAOT or to fulfill foundational requirements in other certificate or degree programs and may have limitations in specific certificate or degree programs. "D" grades are not considered passing for prerequisite courses.

F 0 not passing

P pass: not computed in GPA, applies toward percentage of credits completed, may be awarded only in authorized classes

NP no pass: not computed in GPA, may be awarded only in authorized classes

W withdraw: not computed in GPA, must be assigned by Records Office

IP course in progress

I incomplete: not computed in GPA, will convert to "F" if requirements of the Incomplete Grade Contract are not met by the end of the following term

audit: not computed in GPA, does not meet graduation requirements; not eligible for financial aid

Pass (P)/No Pass (NP)

Χ

"Pass" is interpreted as a "C" or better. The "pass/no pass" option is used for certain courses where it is deemed inappropriate to use the regular grading system. Credits are awarded but not calculated in GPA.

Challenge course pass/no pass

All challenge examinations will be graded on the "pass/no pass" basis. The standard for a "P" in challenge courses is performance at the level of a grade of "B-" or better. Credits are awarded but not calculated in GPA.

Withdrawal (W)

Students who withdraw from full-term courses between the eighth week of the term and the Wednesday before finals week will receive a "W" on their transcript. For classes shorter than one quarter, proportional times will be used. Note: Permission of the instructor is required to withdraw from the course. A "W" is not computed in a student's GPA.

In Progress (IP)

This notation is made on a transcript if the course ends after the normal grading period. At the end of the course, a grade will be entered.

Incomplete (I)

An Incomplete (I) grade is assigned when a student successfully completes approximately 75 percent of course requirements, but for reasons acceptable to the instructor, the student is unable to complete remaining requirements during the given term. An "I" grade is not a substitution for a failing grade, but indicates that there is a reasonable expectation that the student will pass the course. An incomplete grade will not count toward academic warning, but it may affect Financial Aid and Satisfactory Academic Progress.

Students may request an Incomplete (I) grade by contacting the instructor prior to the end of the term. Students must complete the remaining requirements within one quarter after the end of the original course (Summer term excluded) unless the instructor designates a later completion date. Instructors will submit a grade change to the Admissions and Records office within one week of the student completing the course requirements; if no grade is submitted, it is assumed the student did not complete the requirements and the "I" grade will convert to an "F." Note that if the student has earned a different grade without completion of these requirements, the instructor has the option to submit that letter grade instead.

Students and instructors are strongly encouraged to complete an Incomplete Grade Contract in order to outline remaining requirements. Please see "Incomplete Grade Contract" on COCC's website for more information.

Audit (X)

Students who want the experience of taking a particular class but do not want to receive college credit may register as audit students in any of the College's courses. Audit students are not required to meet specific course requirements but should participate fully in class activities. If students wish to audit a class, they must indicate so at the time of registration and note the following:

- "X" appears on the transcript.
- "X" is not calculated into a student's GPA.
- Tuition is the same as classes taken for credit.
- Audited courses do not meet graduation or transfer requirements and are not eligible for financial aid.
- A student may convert "audit" status to "regular" status, and vice versa, before the end of the seventh week of the term for full-term classes.

GRADING ON ATTENDANCE

With the exception of the College's administrative withdrawal policy, the individual instructor or department determines grading on attendance in class and/or participation. Instructors requiring attendance in class and/or participation toward the overall grade will outline expectations and procedures in their respective syllabi.

MIDTERM GRADE REPORTS

Midway through each term, instructors have the option to file grades of "D" and "F" or "NP" for those students whose performance indicates it, including those who are not regularly attending class. It is entirely at the instructor's discretion to submit or not submit a midterm grade report. If an instructor submits a midterm grade, the student will be sent an email at his/her college email address.

Students must take responsibility for withdrawing if they do not wish to continue in a class.

DEAN'S LIST

Students enrolled in 12 or more graded credits who receive a term GPA of 3.60 or better will have a Dean's List notation on their official transcript each term that the GPA is earned. The Dean's List will also be published each term.

GRADE CHANGES

The responsibility of assigning grades at COCC is entirely the instructor's. A student who disputes the final grade (A–F, P, NP) in a course should meet with the instructor to review the grade. If not satisfied, the student may meet with the department chair, who can further review the grade with the instructor. If the student believes that the grade is arbitrary or capricious, the student has recourse through the College's grade appeal procedure found in the Academic Procedures Manual on the COCC website.

Students who wish a change of grade to or from "W" or "X" must submit a petition directly to Admissions and Records. Requests for grade changes are considered only within one year of the grade being awarded.

REPEAT GRADE POLICY

As a general rule if a student takes the same course twice, whether at COCC or another institution, only one course may be used to satisfy certificate or degree requirements.

INSTITUTIONAL REPEAT POLICY

If a student repeats a course and both courses were taken at COCC, the most recent course will be calculated in the cumulative GPA and applied toward degree requirements. The original course and grade will remain on the transcript, with an "R" indicating it was later repeated. The original course grade will not be used in the GPA calculation for that term or the cumulative GPA calculation. Students may repeat a course as many times as they wish; however, only the original/first course's grade will be excluded from the term and cumulative GPA and only the most recent course will be used toward graduation requirements. There is no limit to the number of courses a student may repeat, unless otherwise stated in specific program requirements.

TRANSFER REPEAT POLICY

If a student has repeat courses transferred from another institution, the College will use the following criteria to determine which course applies to needed requirements:

- The most recent COCC course with a grade "C" or better.
- If both courses came from other institutions, the transfer course with the best grade will be selected.
- Some degrees and certificates have specific policies on permissible age of transfer courses. Please refer to the applicable program description.

Courses in music or theater performance, studio art, Cooperative Work Experience and HHP activity classes may be repeated for credit. The grades and credits for such courses will be recorded on the transcript and totaled cumulatively. In some cases, there may be a limit to the number of total credits allowed from those courses when used toward a certificate or degree. There is no limit to the number of courses a student may repeat. If students wish to use the grade repeat policy for music or theater performance, studio art, Cooperative Work Experience and HHP activity classes, they must complete a student petition and submit it to the Admissions and Records office; the course repeat policy will automatically happen for all other coursework.

ACADEMIC WARNING POLICY

Students are considered to be in good academic standing if they earn a minimum 2.0 GPA each term. Certificate- and degree-seeking students not meeting this requirement receive an academic warning. All students on academic warning will be sent an email to their COCC email address specific to their situation the day after grades are processed; it is the student's responsibility to monitor their academic standing and complete academic warning requirements in a timely manner.

Academic warning descriptions and requirements are as follows:

First Academic Warning

When students earn less than a 2.0 term GPA, they are placed on First Academic Warning. At this stage, students are strongly encouraged to meet with their advisor prior to registration.

Second Academic Warning

When students earn less than a 2.0 term GPA for two consecutive terms, they are placed on Second Academic Warning. At this stage, students are required to meet with an academic advisor and complete the Second Academic Warning worksheet. The worksheet must be submitted to Admissions and Records no later than 5 p.m., on Monday of the second week of the following term. If students are preregistered and fail to complete these steps, their registrations will be voided and a full tuition and fees refund issued. (Bookstore expenses may not be refundable.) Second academic warning students will be prevented from registering for one calendar year or until such time as they complete the Second Academic Warning worksheet.

Third Academic Warning

When students earn less than a 2.0 term GPA for three consecutive terms, they are placed on Third Academic Warning. In order to attend classes, students must complete the Academic Reinstatement petition with their advisor and submit the petition to Admissions and Records no later than 5 p.m., on Monday of the second week of the following term. The Academic Reinstatement Committee will review completed petitions no later than Wednesday of that week. The Committee has three options:

- Approve the petition as is: Students continue attending classes, following the requirements of the petition. If students fail to follow the academic plan or requirements, their registration in classes may be voided and their petition is considered "denied."
- Approve the petition with revisions: If students fail to follow the revised academic plan or requirements, their registration in classes may be voided and their petition is considered "denied."
- Deny the petition: If denied, students will not be allowed to continue or register for classes; any current registrations will be voided and a full-tuition/fee refund will be issued. (Bookstore expenses may not be refundable.) Students may petition for reinstatement the following term or cease to attend classes for one calendar year. After one year, students may re-enroll and begin classes as if no academic warnings existed (grades on students' transcripts remain the same).

All petitions are final and are not subject to appeal unless there is information pertinent to the outcome that was not submitted at the time of the initial request.

Note: All students on Third Academic Warning are required to participate in an activity (or activities) specifically chosen to address why they received three academic warnings. Depending on circumstances, this could be attending a study skills class or workshop; meeting with a personal counselor to talk about time management, stress management, depression or other personal situations; attending a career counseling workshop or class; or other option recommended by the advisor. If students do not follow through with this activity or activities, they will be dropped from that term's classes. Financial aid recipients will need to pay back a prorated amount of their funding. See the Financial Aid withdrawal penalty policy.

If students are preregistered and fail to complete the petition, their registrations will be voided and a full tuition and fees refund issued, except books. Third Academic Warning students will be prevented from registering for one calendar year or until such time as their Academic Reinstatement petition is approved.

Fourth Academic Warning

When students earn below a 2.0 term GPA for four consecutive terms, they receive a Fourth Academic Warning and are blocked from all registration in credit classes for one calendar year. After one year, students may re-enroll and start their academic record as if no academic warnings existed. The students' transcript, however, will remain the same.

Note:

- 1. Students who do not have an assigned advisor may request one through the CAP Center or Admissions and Records.
- Students on academic warning may not be self-advised, and students who were self-advised must meet with an advisor.
- 3. Students may not change advisors while on academic warning.

TRANSFER CREDIT ARTICULATION

In keeping with the philosophy that college-level knowledge can be validated and documented in various ways, Central Oregon Community College recognizes many educational experiences for credit. A guiding principle of our transfer credit practice is that acceptable transfer credit is applied in the same manner as is COCC credit.

Transfer credits earned at another regionally accredited institution generally will be accepted as they apply to COCC degree requirements. Students who wish to use previous college credits toward a COCC degree should order official transcripts from the previous college. COCC will articulate the transcript toward the certificate or degree listed on the student's admission application. The articulation will be viewable on GradTracks, COCC's online degree audit tool.

Limits on college credit transfer are:

- Subject matter may not duplicate that for which credit has previously been awarded in transfer or at COCC.
- Credit awarded by another institution for life experience is not transferrable to COCC.
- Courses which espouse a particular religious view normally do not equate to COCC courses.
- In some cases, science credits more than five years old may not be applicable to specific programs.
- Transfer credit is only considered for courses where a grade (of A, B, C, D, pass, satisfactory) and credit has been awarded.
 Note that a "D" will not be accepted for the AAOT degree, foundational requirements and for some programs. (See individual program requirements.)
- Students working toward a COCC degree must complete a minimum of 24 COCC credits. Certificate-seeking students must complete a minimum of 18 COCC credits. Challenge, Advanced Placement (AP), College Level Examination Program (CLEP) and Credit for Prior Certification (CPC) credits do not meet this requirement.

Noncollegiate and nonaccredited institutions

COCC will evaluate records for Career and Technical Education students from noncollegiate and nonaccredited institutions (such as business and trade schools) under the following guidelines:

- Only coursework that is technical in nature and certificate- or degree-applicable will be evaluated.
- Coursework will be evaluated by the appropriate Career and Technical Education program director.
- Sufficient documentation (transcripts, certificates, course descriptions, etc.) must be submitted to enable an informed review. Documentation must be received directly from the originating institution or program. The American Council on Education (ACE) guides will assist in evaluating the credentials. In some cases, COCC faculty will be consulted for evaluation of a particular credential.
- Material must be equivalent to regular credit courses offered at COCC. Credit is not considered based on what the student "knows," but on the content of, and recorded achievement in, the course itself.
- Material may not duplicate that for which credit has previously been awarded in transfer or at COCC.

Advanced Placement exams (AP)

Credit will normally be awarded following approved guidelines from COCC academic departments. Typically, credit is considered only when it is equivalent to regular course offerings at COCC and when it is not duplicated.

Advanced Placement (AP) will be evaluated at COCC as listed below.

AP Biology, score 4+	BI 101, 102 and 103
AP Calculus AB, score 3	MTH 251
AP Calculus AB, score 4+	MTH 251, 252
AP Calculus BC, score 3	MTH 251, 252
AP Calculus BC, score 4+	MTH 251, 252, 253
AP Chemistry, score 4+	CH 221, 222, 223
AP Comparative Government score	4+ PS 204
AP Comp Science A, score 4+	CS 161
AP Comp Science AB, score 3	CS 161
AP Comp Science AB, score 4+	CS 161, 162
AP Drawing score 4+	4 credits, discipline studies arts and letters
AP Environmental Science score 3	
AP European History, score 3+	HST 101, 102
AP French Language, score 3	FR 101, 102, 103
AP French Language, score 4	FR 103, 201, 202
AP French Language, score 5	FR 201, 202, 203
AP German Language, score 3	GER 101, 102, 103
AP German Language, score 4	GER 103, 201, 202
AP German Language, score 5	GER 201, 202, 203
AP Human Geography score 3+	GEOG 107
	Comparative Government score 4+ PS 204
AP Language and Composition, sco	· · · · · · · · · · · · · · · · · · ·
	s in one of: ENG 104, 105, 106, 107, 108, 109
(No writing credits earned with Lit	
AP Microeconomics, score 3+	EC 201
AP Macroeconomics, score 3+	EC 202
AP Physics 1: Algebra Based, score	of 4+ 4 credits, PH 201
AP Physics 2: Algebra Based, score	of 4+ 4 credits, PH 202
BOTH AP Physics 1 & AP Physics 2:	Algebra Based, score of 4+ 12 credits, PH 201,
202 & 203	
AP Psych, score 3+	4 credits, psychology prefix, discipline studies list
AP Spanish Language, score 3	SPAN 101, 102, 103
AP Spanish Language, score 4	SPAN 103, 201, 202
AP Spanish Language, score 5	SPAN 201, 202, 203
AP Statistics, score 4+	MTH 243
AP Studio Art 2D score 4+	4 credits, discipline studies arts and letters
AP Studio Art 3D score 4+	4 credits, discipline studies arts and letters
AP US Government, score 3-5	PS 201
AP US History, score 4+	HST 201
,-	3 credits, history electives (not discipline studies)
**	, , , , , , , , , , , , , , , , , , , ,

COCC recognizes International Baccalaureate (IB) achievement by awarding credit to students who score 5 or above on Standard or High-level IB exams. A grid outlining how credit will be awarded is maintained on the COCC website. Credit is applied to a student's record after the student has been admitted to COCC and official transcripts or score reports have been received by the Admissions and Records office.

CREDIT FOR PRIOR LEARNING

Credit for Prior Learning (CPL) is defined as credit obtained through evidence-based assessment of learning that occurs outside of traditional college-level coursework. The Northwest Commission on Colleges and Universities limits CPL credits to a maximum of 25% of the credits needed for a degree. COCC awards credit through these types of assessments:

- ACE Credit Recommendation (Military Service, noncollegiate learning)
- College Level Examination Program (CLEP)
- Credit for Prior Industry Certifications
- Institutional Challenge Exams

ACE credit recommendations

The American Council on Education (ACE) is a college credit recommendation service that evaluates workforce training and makes suggestions for academic credit. In most cases COCC will accept the recommendations in the National Guide. To be considered for college credit students must submit official ACE transcripts.

The ACE guidelines will be used when considering military credit for courses (not occupations) documented on the DD-214 and/ or other official training documents. Typically, credit is considered only when it is equivalent to regular course offerings at COCC, when it is not duplicated and when it is applicable to a student's degree requirements.

College Level Examination Program (CLEP)

CLEP exams will be evaluated at COCC as listed below. The

following scores are listed as minimum.

CLEP Principles of Marketing, score 70+

Tollowing scores are listed as Irilli	iiiiaiii.
CLEP Accounting, score 70+	business elective
CLEP American Literature, score 50+	ENG 253, 254
CLEP Biology, score 50+	BI 101, 102, 103
CLEP Calculus with Elem. Function, score	50+ MTH 251
CLEP Calculus with Elem. Function, score	60+ MTH 251, 252
CLEP Chemistry, score 50+	CH 221, 222, 223
CLEP College Algebra, score 50+	MTH 111
CLEP College Mathematics, score 50+	MTH 105
CLEP English Composition	no credit
CLEP English Literature, score 50+	ENG 204, 205
CLEP Foreign Language, (no more than 1	2 credits per language)
French: score 50+	FR 101, 102, 103
French: score 59+	FR 201, 202, 203
German: score 50+	GER 101, 102, 103
German: score 60+	GER 201, 202, 203
Spanish: score 50+	SPAN 101, 102, 103
Spanish: score 60+	SPAN 201, 202, 203
CLEP General Exam in Natural Sciences, s	score 50+ 9 non-lab science credits for
"additional courses" or electives	
CLEP General Math	no credit
CLEP Humanities, score 50+	credits, discipline studies arts and letters
CLEP Intro Business Law, score 70+	business elective
CLEP Macroeconomics, score 50+	EC 202
CLEP Microeconomics, score 50+	EC 201
CLEP Principles of Management, score 70	+ business elective

business elective

CLED Socialogy, seems 50 t	SOC 201
CLEP Sociology, score 50+	
CLEP US History I, score 50+	HST 201
CLEP US History II, score 50+	HST 202
CLEP Western Civ I, score 50+	HST 101
CLEP Western Civ II, score 50+	HST 103
CLEP both Western Civ I and II, scores of 50+	HST 101, 102, 103

Students may arrange to take the CLEP tests at the COCC Tutoring Center, 541.383.7539.

Credit for Prior Certification (CPC)

Students in Career and Technical Education programs may receive credit for prior certification if they have completed a course, training or other program that is taught to state, national or other officially recognized standards. Credit is not awarded for other life experiences. Students interested in receiving credit for prior certification must submit official copies of prior certifications to the Program Director, along with a Credit for Prior Certification request form. Once approved, students will then forward the documentation to the Transcript and Degree Evaluation department in Admissions and Records. If credit can be awarded, the student must pay a \$40/course fee prior to having credits transcribed.

Credits will be posted at the top of the student's transcript in a section titled "Credit for Prior Certification" so as to not be confused with regular COCC coursework. COCC's transcription of credit does not guarantee that the credit will be accepted by another higher education institution. Each institution establishes its own credit for prior certification policy and will evaluate prior certification based on that policy.

Credits transcripted for prior certification may not be used to acquire full-time status or to meet eligibility requirements for any other purpose, such as financial aid, veteran benefits or scholarships. For Career and Technical Education programs, a maximum of 24 credits for prior certification will be awarded for associate degrees; 12 credits for certificates. With the exception of apprenticeship programs, credit for prior certification does not apply toward the minimum 24 COCC credits required to complete a COCC degree; 18 COCC credits for a certificate.

Challenge courses

Students that have have knowledge and experience similar to a particular course may challenge a course and receive credit for that course. Course challenges are subject to the following:

- Students cannot challenge courses at a lower level than ones in which they have already demonstrated competency, nor at a lower level than ones in which the student has already registered.
- Students may not challenge courses which they have already taken.
- Students may not challenge courses in which experiencing the course itself is essential.
- Challenged courses do not apply toward meeting residency requirements for a certificate or degree.
- Challenged courses do not count in determining financial aid eligibility.

In order to assess whether or not the student has a reasonable chance of successfully challenging a course, a student must receive permission from a faculty member in the subject area and the department chair prior to challenging a course. If approved, the student and department complete the Challenge Petition form. This must be completed by the end of the second week of the term. The challenge paper or final must be completed prior to the end of the term.

Challenged courses are charged the regular tuition rate payable at the time the completed petition is processed through Enrollment Services in Admissions and Records. It is the student's responsibility to schedule challenge examinations with the instructor. The exam may be rescheduled, only at the instructor's discretion, in extraordinary circumstances. A grade of Pass or No Pass is assigned, where a Pass is earned for performance equivalent to a grade of "B—" or better. Students may not rechallenge a course if they do not pass the first attempt. Go to cocc.edu/general-procedures-manual/academic and read "Course Challenge" section for complete details.

Computer Competency requirement

Some COCC associate degrees (AS, AAS and AGS) require students to demonstrate basic computer skills prior to graduation. To meet this requirement, students must successfully complete CIS 120 Computer Concepts, or pass Key Applications and either LivingOnLine or Computer Fundamentals of the IC3 exams.

The IC3 exams may be taken at the COCC Tutoring and Testing Center or any authorized Certiport Testing Center. Locally, appointments can be made through the Tutoring and Testing Center located in the lower level of the Barber Library. A \$35 fee is charged for each test; one free retake is included in the \$35 fee. If a student needs to retake the exam a third time, another \$35 fee is charged.

Passing two of three exams does not provide students with course credit; instead, a notation is placed on the student's record so that the testing may be used to meet degree requirements. By successfully passing all three exams students are eligible to receive 4 credits for CIS 120. To have the 4 credits applied to certificate degree requirements, students must present proof that they have received certification by passing all three exams and follow the Credit for Prior Certification procedures. Students will be charged \$40 to have the credits transcribed.

Note: CIS courses may be required in some AS or AAS programs and the competency test will not substitute for that requirement. See individual program descriptions for details.

INTERNATIONAL CREDENTIALS

International credentials will be evaluated using the following principles:

 Coursework must be completed at a nationally recognized, university-level institution and must be at a level of achievement comparable to COCC's A, B, C and D grades. Note that a "D" will not be accepted for the AAOT degree, foundational requirements and for some programs. See individual program descriptions. The applicability of such transfer credit will be evaluated as is credit from U.S. institutions.

- NAFSA: Association of International Educators and American Association of College Registrars and Admissions Officers (AACRAO) guidelines will be used in evaluating the credentials.
- The student will pay for any costs associated with international transcript evaluations.

It is the responsibility of each student with transcripts from foreign universities to have the transcript translated (if necessary) and evaluated for acceptance toward a COCC certificate or degree. The student must use a member of the National Association of Credential Evaluation Services. Details on foreign transcript evaluation are available at the COCC Admissions and Records office, Boyle Education Center. English taught outside the United States may not meet COCC's English composition requirement. Degrees from foreign countries do not waive the general education or writing competency requirements.

GRADUATION

COCC will automatically award certificates or degrees upon completion of the requirements in the student's declared program of study. No application is necessary. Students will be notified of their progress as they approach completion and again after the certificate or degree has been awarded. Students use GradTracks, an online degree evaluation tool, to track their progress to completion and must be sure their academic record accurately represents the catalog/planning year and certificate or degree they are pursuing.

Students who wish to be awarded a certificate or degree that is not their declared program of study must complete the Application for Degree no earlier than their final term. The application is located online at cocc.edu/admissions/graduation-and-honors/graduation.

COCC provides advising toward its certificates and degrees; however, students are ultimately responsible for being informed about degree requirements and for selecting appropriate classes.

Graduation Requirements

A certificate or degree is awarded when it meets the appropriate course requirements listed in this catalog and the student has met the following quidelines:

- Complete the minimum number of credits required for the degree.
 Earn a minimum 2.0 cumulative grade-point average at COCC.
 Owe no debt to the College.
- ☐ Complete at least 24 degree-applicable residency credits for an associate's degree; 18 certificate-applicable residency credits for a certificate.
- ☐ Meet at least one of the following criteria:
 - 1. Students have three years to complete their program under the catalog in which they began or any subsequent catalog.

- a. The student's default catalog year is the year the student is admitted to COCC and the student may graduate under that default catalog year or either of the next two catalog years.
- b. If the student has a break in enrollment for four consecutive terms, the student must reapply to COCC and the default catalog year will now be the year the student is readmitted.
- c. The student's choice of catalog years is limited to two catalog years prior to the student's year of graduation. If the student does not graduate within three catalog years of student's admittance, the default catalog year will be updated yearly to the subsequent catalog year.
- 2. The student transfers back to COCC other college credit and meets degree requirements listed in the current college catalog or the previous two catalog years.

When a student's completion of degree requirements coincides with the last term attended, the degree will be posted in that term. When the student uses transfer credit after an absence from the College, the degree will be posted in the term in which the degree evaluation is successfully completed and when it has been determined that all degree requirements have been met.

Multiple/concurrent degrees

Students applying for multiple or concurrent degrees must meet the degree requirements outlined above and as listed for each degree on the following pages. For each additional degree, students must complete at least 15 COCC credits that are different from those used for the other degree(s) and are applicable to the additional degree requested and must complete the Application for Degree no earlier than their final term.

Graduation Honor Roll

Honors will be listed on the transcripts of COCC graduates based on the following cumulative GPA from the end of the term prior to the student's graduation:

3.60–3.74 honors 3.75–3.89 high honors 3.90–4.00 highest honors

Graduates participating in commencement exercises will receive honor cords. Graduates with a 4.00 cumulative GPA will have an asterisk by their name in the annual commencement program.

Commencement

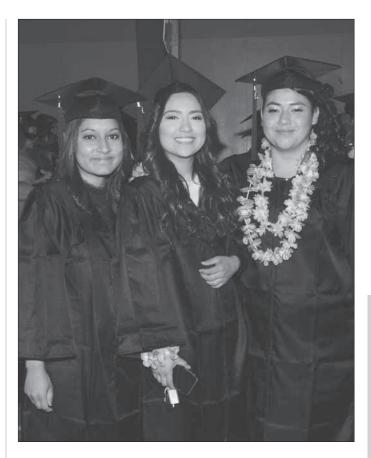
A commencement ceremony is held once each year in June, following the end of Spring term, for students who have earned a certificate (45 credits or more) or an associate degree. All graduates who have completed their degrees in the previous academic year may participate. Commencement information is sent in April to all students who earned or applied for a degree or certificate. Students wishing to participate in the commencement ceremony must submit participation confirmation in their Bobcat Web Account when made available.

TRANSFERRING CREDITS TO A FOUR-YEAR UNIVERSITY

As a general rule, Oregon public universities will accept up to 124 lower-division quarter hours of transferrable college credit. It is ultimately the responsibility of the students to know and meet the course requirements of the four-year college or university to which they wish to transfer. Students may obtain assistance from academic advisors.

Grades of A, B or C earned in transfer courses (numbered 100-299) are generally accepted by other colleges; other grades may have limited transferability. COCC has also made arrangements with select programs at four-year colleges and universities for the transfer of certain Career and Technical Education (CTE) courses.

Students seeking a Bachelor of Arts or a Bachelor of Science degree should be aware of world language and other degree or major-specific requirements.





POLICIES

STUDENT EDUCATIONAL RECORDS AND DIRECTORY INFORMATION

Admissions & Records maintains all official academic records of enrolled students including, but not limited to, transcripts, registration forms, transfer credits and degree evaluations. For record-keeping purposes, the College considers web registration as part of a student's official record. Financial Aid maintains all student aid and scholarship records.

Central Oregon Community College follows the Federal Health Education and Welfare Guidelines for the Family Education Rights and Privacy Act of 1974–Pell-Buckley Amendment (FERPA), which gives students attending post-secondary institutions the right to inspect their educational records. Those rights are:

1. The right to inspect and review their education records within 45 days of the day COCC receives a request for access.

Students must contact the registrar at 541.383.7500 or welcome@cocc.edu and submit a written request that specifies the specific records they wish to inspect. The registrar will make arrangements and notify the student of the time and place where the records may be inspected.

The College reserves the right to withhold transcripts from students who are in debt to the institution. Students have the right to discuss the matter with a representative empowered to resolve such disputes.

- 2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students should write the registrar, clearly identify the part of the record they want changed and specify why it is inaccurate or misleading. If the College decides not to amend the record as requested by the student, COCC will notify and advise the student of the decision and of his or her right to a hearing regarding the request for amendment. The College also will provide additional information regarding the hearing procedures.
- The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by COCC in an administrative, supervisory, academic, research or support staff position (including law enforcement unit personnel and health staff); a person or company with whom COCC has contracted (such as an attorney, auditor or collection agent); a person serving on the Board of Directors; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has legitimate educational

interest if the official needs to review an educational record in order to fulfill his or her professional responsibility.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by COCC to comply with the requirements of FERPA. The name and address of the office that administers FERPA is: Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue SW, Washington, DC 20202-5901.

DIRECTORY/RELEASE OF INFORMATION

The College does not publish a student directory. Requests for directory information must clearly state the student's name.

Central Oregon Community College considers the following information to be directory information and may release it if requested on an individual basis:

- student's full name
- terms of attendance (not daily attendance)
- · major field of study
- full- or part-time enrollment status
- · degrees, certificates and honors awarded
- address and telephone number
- email address
- participation in officially recognized activities and sports
- · most recent previous school attended
- class standing (freshman or sophomore status)

Students who do not wish the above information to be released by the College must submit a signed statement requesting that this information be withheld. Contact Admissions and Records for the necessary form and additional information. The request to withhold information remains in effect until the student submits a signed statement indicating that directory information may be released. Students should keep the College notified of current addresses and telephone numbers. Students can update this information through their Bobcat Web Account.

Information such as grades, progress in coursework, financial aid status and class schedule will not be released, except as authorized by law. If students wish to have this information released to parent/guardians, employers or other non-college entities, students must submit a Release of Information form to Admissions and Records in the Boyle Education Center. The release is valid until the student requests in writing to have it revoked.

RELEASE OF DIRECTORY INFORMATION FOR MILITARY RECRUITING PURPOSES

Under the Solomon Amendment Interim Rule to implement the National Defense Authorization Act of 1995 and of 1996, and the Omnibus Consolidated Appropriations Act, 1997, schools receiving Title IV funding must provide military access to directory information for students 17 years of age or older. For purposes of the act, directory information is defined as name, address, telephone listing, date and place of birth, level of education, degrees received and the educational institution in which the student was most recently enrolled. Students who have formally requested COCC to withhold all directory information from third parties will not be included.

SOCIAL SECURITY NUMBER/ INFORMATION CONSENT

The College adheres to the following policy statement:

"Providing your social security number is voluntary. If you provide it, the College will use your social security number for keeping records, doing research, aggregate reporting, extending credit and collecting debts. Your social security number will not be given to the general public. If you choose not to provide your social security number, you will not be denied any rights as a student. Providing your social security number means that you consent to use of the number in the manner described."

OAR 589-004-0400 authorizes Central Oregon Community College to ask students to provide their social security numbers. The numbers will be used by the college for reporting, research and record keeping. The numbers will also be provided by the college to D4A (Data for Analysis), which 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 College to support the progress of students and their success in the workplace and other education programs.

D4A or the College may provide a student's social security number to the following agencies or match it 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.

State and federal law protects the privacy of student records. The social security number will be used only for the purposes listed above. However, there may be times when solicitation and disclosure of a student's social security number is mandated by federal law.

PHOTO/VIDEO CONSENT

COCC assumes consent of students and staff to use their likeness in photos and/or videos, unless otherwise requested.

STUDENT CONCERNS PROCESS

COCC has a college concerns procedure designed to provide employees, students and community members a way to appeal decisions made within the College. Contact Student Life at 541.383.7590 for a copy of the procedure, or view it online at cocc.edu/human-resources/employment/equal-opportunity.

CONCERNS REGARDING GENDER DISCRIMINATION, SEXUAL HARASSMENT, OR MISCONDUCT, DATING VIOLENCE, DOMESTIC VIOLENCE AND STALKING

Students or employees who believe they have experienced or witnessed discrimination, sexual harassment, or misconduct, dating violence, domestic violence, or stalking are encouraged to report this information to the College's EEO/Title IX Officer, 541.383.7216 or the Director of Student Life, 541.383.7592. These staff can provide assistance and resources and discuss possible responses for the situation. Do not wait to report concerns until the situation becomes too serious (i.e. severe, pervasive or persistent). Off-campus harassment, misconduct or violence by members of the College community should be brought promptly to the attention of the College staff listed above.

NO RETALIATION STATEMENT

No one at the College may reprimand, discriminate or otherwise retaliate against an individual for initiating an inquiry or complaint in good faith, nor against other individuals who share information related to the complaint.

TITLE IX STATEMENT

Title IX protects people from discrimination based on sex in education programs and activities. This includes conduct such as: gender discrimination (includes males, females, transgender, gender identity, etc.), sexual harassment, sexual assault, stalking, intimate partner/relationship violence, bullying and cyberbullying, retaliation, the failure to provide equal opportunity in athletics and discrimination based on pregnancy. Persons having questions about Title IX should contact the Title IX Officer at 541.383.7218.

STUDENT RIGHTS AND RESPONSIBILITIES

In order to provide for the maximum safety, convenience and well-being of the total College community, certain standards of behavior have been established at COCC. Upon admission

to the College, all students accept an unqualified commitment to adhere to such standards and to conduct themselves in a manner appropriate to an educational environment, one which reflects respect for themselves and the College. Such actions as academic dishonesty, abuse of property, harassment, any violation of federal or state law, possession of alcoholic beverages and possession of illegal drugs are in violation of the College's standards and are cause for disciplinary action. The disciplinary action taken by the College covers a range of possibilities up to and including dismissal from college. A comprehensive Student Rights and Responsibilities guide is available online at cocc.edu/ student-life/student-policies.

ALCOHOL AND DRUG POLICY

In compliance with the Drug-Free Workplace Act of 1988 (Public Law 100-690, Title V, Subtitle D) and the Drug-Free Schools and Communities Act Amendment of 1989 (Public Law 101-226), it shall be the policy of Central Oregon Community College to maintain a drug-free campus for all employees and students. It is the responsibility of the College to notify students and staff of college policy. In accordance with this intent, the following policy is in effect:

Drug-free campus

The unlawful possession, use or distribution of illicit drugs and alcohol is prohibited on the College campus, in all College facilities or as part of any College-sponsored activity. Violators of this policy will be prosecuted to the full extent of state and federal law and, in addition, there are specific consequences for employees and for students which are stated in the College Drug-Free Campus Procedures.

Employees and students can find assistance, abuse prevention resources and health risks information associated with the use of illicit drugs and the abuse of alcohol and warning signals, online at cocc.edu/student-life/student-resources/abuse-prevention-information.

NONDISCRIMINATION POLICY

The goal of Central Oregon Community College is to provide an atmosphere that encourages our faculty, staff and students to realize their full potential. In support of this goal, it is the policy of Central Oregon Community College that there will be no discrimination or harassment on the basis of age, disability, sex, marital status, national origin, ethnicity, color, race, religion, sexual orientation, gender identity, genetic information, citizenship status, veteran status or any other classes protected under Federal and State statues in any education program, activities or employment. Persons having questions about equal opportunity and non-discrimination should contact the Equal Employment Officer c/o COCC's Human Resources office at 541.383.7216.

Faculty, staff and students are protected from discrimination and harassment under Title VII of the Civil Rights Act of 1964 and Title IX of the Education Amendments of 1972. Persons attending classes or events who need accommodation for a specific disability should contact the office of Services for Students with Disabilities at 541.383.7583. Persons needing physical accommodation for a College special event should contact the ADA Coordinator at 541.383.7775. Further inquiries may be directed to the Affirmative Action Officer, c/o COCC's Human Resources office at 541.383.7216.

SMOKING POLICY

Smoking is banned in all of the buildings of Central Oregon Community College. Smoking or the use of smokeless tobacco is limited to campus parking lots unless otherwise noted. Use in parking lots adjacent to buildings must be 25 feet away from any portion of the building. During high fire danger periods, smoking will be banned completely.

STUDENT RIGHT-TO-KNOW ACT

In order for students to make more informed decisions about attending college, Central Oregon Community College makes the following information available in accordance with the federal Student Right-to-Know Act and related regulations:

- General Institutional Information: services for disabled students, cost of attendance and additional program costs, student diversity, students' rights under the Family Education Rights and Privacy Act (FERPA), student concerns procedure, copyright infringement, net price calculator, non-discrimination policy and annual student demographic information.
- Financial Aid Information: withdrawal and refund policy and associated financial aid implications, return of financial aid due to withdrawal, types of aid, how to apply for aid, how aid is disbursed, rights and responsibilities of students receiving aid, financial aid penalties for drug law violations, work-study terms and conditions, satisfactory academic progress criteria, study abroad financial aid opportunities and loan repayment options.
- Student loan information: initial loan counseling for students, exit loan counseling for students, deferment options for Peace Corp and related service organizations.
- Academic information: academic warning standards, accreditation, articulation agreements, degree options, academic programs, adult basic skills programs, campus academic facilities, faculty and staff contact information, transfer credit policy, international baccalaureate credit and out-of-state academic student complaint procedure.
- Health and Safety Information: campus crime report/safety, alcohol/drug policy, drug and alcohol abuse prevention information, emergency procedures, sex offender information, vaccination policies, mandatory reporting-child protection policy.
- Student outcomes: graduation and transfer rates, retention rates, graduate employment status.

Student Right-To-Know information is available on the College's website at cocc.edu/srtk.

DEGREE, CERTIFICATE & COURSE OVERVIEW

Central Oregon Community College offers a variety of transfer and Career and Technical Education (CTE) certificate and degree options, which allow students to choose their program based on their educational goals.

TRANSFER / BACHELOR DEGREE PREPARATION

Students wishing to attend COCC and use credits earned toward a bachelor's degree have several options that range from completing individual courses to completing an associate degree designed for transfer.

ASSOCIATE OF ARTS, OREGON TRANSFER (AAOT)

Intended for students who will earn a bachelor's degree. All public Oregon universities have agreed to accept all credits included in the AAOT, to waive lower division general education requirements and to allow junior standing. For details on COCC's Associate of Arts, see page 37 of the Catalog. AAOT programs offer specific "focus areas" that provide a suggested course of study for students interested in pursuing a bachelor's degree in certain disciplines.

ASSOCIATE OF SCIENCE (AS)

The AS is intended for students interested in pursuing a bachelor's degree at a specific institution, or in a specific major (generally in engineering, science or business), or both. The student can either use a pre-designed AS degree or work closely with their advisor to include their transfer requirements in the AS template, and submits the plan to Admissions and Records office.

OREGON TRANSFER MODULE (OTM)

While not a full certificate or degree, the transfer module guarantees that another Oregon community college or public university will accept all module credits toward their general education requirements.

Articulation agreements

Students may select individual courses at COCC and transfer them to a college or university. Students who will not complete a degree at COCC are encouraged to research degree requirements for the college at which they will earn their bachelor's degree and select courses accordingly. The Oregon public universities have equivalency guides to aid in selecting equivalent courses. Every college will have a policy on transfer credit that can usually be located on the destination college's website, often under the admissions information for transfer students. A COCC faculty advisor or a CAP Center advisor can assist students with locating this information.

COCC partners with several colleges and universities to offer a seamless transfer among institutions for certain majors. Refer to degree requirements for articulation possibilities.

CAREER AND TECHNICAL EDUCATION

COCC's Career and Technical Education programs prepare students to enter the workforce in a specific field. CTE programs provide hands-on training in a variety of technical areas with the goal of giving students the skills needed for various technical jobs (examples include dental assisting, automotive technology and health information technology).

ASSOCIATE OF APPLIED SCIENCE (AAS)

Intended for students who want earn a college degree, gain technical skills in a specific area and get a job after graduation.

CERTIFICATES

Similar to the AAS but smaller in scale, certificates provide hands-on training for employment. Many certificates of completion allow students to stop at a variety of points, gain employment in the field and return at a later date for more advanced training.

INDIVIDUALIZED STUDY

EXPLORATORY

Students may also elect to be an exploratory student at the beginning of their academic career at COCC. This provides students the opportunity to explore different programs and majors before deciding on a program or degree. Students may choose the Associate of Arts Oregon Transfer (AAOT) exploratory option, which allows room to explore different subjects while completing general education classes. Or, students may choose the Associate of General Studies (AGS) option, which allows students to self-design a program to meet their needs.

ASSOCIATE OF GENERAL STUDIES (AGS)

For students not pursuing specific transfer or career and technical programs, the AGS degree is intended to allow students to design a course of study to meet their individual needs.

LENGTH OF PROGRAM

The time to completion of COCC programs varies according to many factors such as: continuous enrollment, Summer term registration, full time/part time status, course availability, course sequencing and placement. In addition, some programs have prerequisites that must be completed prior to progression into core classes which may extend time to completion, depending on the above factors. Students who have completed prerequisites, or are pursuing a program that does not have prerequisites, and attend full-time (averaging a minimum of 15 credits a term) can generally complete an associate degree in two years, a certificate of completion in one year (though the size of certificates vary) or a short term certificate of completion in less than one year. Students should work with their academic advisor to determine their estimated time to completion.

TRANSFER AND CAREER & TECHNICAL EDUCATION (CTE) PROGRAMS AT A GLANCE

Here is a quick-reference listing of the college transfer and Career and Technical Education (CTE) programs (certificates and Associate of Applied Science degrees) available at Central Oregon Community College and their associated pages with additional information.

	Short-Term Certificat	-Year Certificato	Two-Year Certificate	<u> </u>	Sfer
	Shor	One	700	AAS	Transfer
Addiction Studies and Human Services		44		45	
Agricultural Science					46
Anthropology					47
Art					48
Automotive Management				49	
Automotive Technology				50	
Auto Basic Skills with Basic Engine Performance	51				
Auto Basic Skills w/ Welding	51				
Auto Controller Systems Technician I & II	52				
Auto Drive Train Technician	52				
Auto Electrical Technician (Basic & Advanced)	52				
Auto Engine Technician	53				
Auto Engine Performance Technician	53				
Auto Heating & Air Conditioning Tech	53				
Auto Hybrid Electric Vehicles Level I & II	53				
Auto Clean Energy Diesel Technician (Advanced)	53				
Under-Car Technician	54				
Master Auto Technician		55			
Aviation					63
Professional Pilot - Airplane				58	
Professional Pilot - Helicopter				60	
UAS Operations				62	
Biological Sciences					64
Business Administration				68	69
Accounting		65			
Entrepreneurship		65			
Ground Transportation Logistics		66			
Marketing Communications		66			
Office Assistant		67			
Retail Management		67			
Cascade Culinary Institute					
Baking and Pastry Arts		70		71	
Culinary Arts		72		73	
Chemistry					74
Communications/Journalism					75
Computer and Information Systems		78		76	
Computer Aided Drafting (CAD)		78		77	

	Short	One	Two.)	AAS	Trans
Desktop Support				77	
Networking				77	
Web Development/Database				77	
Computer Science					79
Criminal Justice				81	82
Juvenile Corrections		80			
Dental Assisting			83		
Dental Hygiene – Pre					145
Dentistry – Pre					147
Early Childhood Education				85	87
Child, Family & Community Studies		88			
Developmentally Appropriate Learning Environments	88				
Economics					89
Education					90
Elementary					91
Secondary					92
Engineering					93
English/Literature					94
Exercise Science/Kinesiology					95
Exploratory					97
Fire Science – Structural				152	
Fire Science – Wildland Fire/ Fuels Management				159	
Firefighter Type II Certificate	157				
Wildland Fire Suppression		158			
Fire Service Administration					98
Forest Resources Technology	100			101	
Advanced Forest Concepts	100				
Conservation of Natural Resources	100				
Forest Ecology	100				
Forest Measurements	100				
Forest Protection	100				
Mapping Cartography	100				
Forestry					103
General Transfer					104
Geographic Information Systems (GIS)		105		106	
Geography					107
Geology					108
Health Information Technology				110	
Coding Competency		109			

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Insurance 109 Insurance Medical Office Specialist 109 Medical Billing Specialist 109 Health/Wellness Coaching 111 History 112 Hospitality Management 114 113 Human Services 115 115 Humanities 116 116 Law - Pre 146 118 Manufacturing Technology 119 121 122 CNC Machining 117 Industrial Maintenance 118 Industrial Maintenance 118 Industrial Maintenance 118 Industrial Maintenance 119 Industrial Maintenance 112 Industrial Maintenance 119 Industrial Maintenance 112 Industrial Maintenance 122 Industrial Maintenance		Short-Term Certification	Year Certifical	Two-Year Certifical	910000	fer
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Hospitality Management						
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Sociology 151 Undeclared Transfer 154 Veterinary – Pre 147 Veterinary Technician 155	Psychology					149
Undeclared Transfer 154 Veterinary – Pre 147 Veterinary Technician 155	Public Health					150
Veterinary – Pre147Veterinary Technician155	Sociology					151
Veterinary Technician 155	Undeclared Transfer					154
·	Veterinary – Pre					147
	Veterinary Technician				155	
World Languages 161	World Languages					161





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OREGON TRANSFER MODULE (OTM)

The Oregon Transfer Module is designed for students who plan to transfer to an Oregon community college or public university. Composed of 45 credits in writing, math, speech, social sciences, sciences, arts and letters, and electives, it is similar to many institutions' freshman year requirements. All courses must be completed with a "C" or better. Students must have a minimum cumulative GPA of 2.0.

Advantages

- Completion of the OTM guarantees that another Oregon community college or public university will accept all credits toward the institution's general education requirements and depending on courses chosen, may meet some lower-division major requirements.
- The Oregon Transfer Module provides students with documentation of completion of a standard set of commonly accepted courses.

Considerations

 Depending on the institution, students may be required to take additional general education courses. Students transferring to an Oregon public university should review any world language and specialty course requirements of the transfer institution. The OTM is not designed to be an endpoint, but rather a tool toward degree completion. The OTM is not a degree or certificate but can be noted on a transcript to confirm completion of a subset of general education courses common among Oregon's colleges and universities.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

The following course numbers cannot be used in foundational requirements: X80, X88, X99, or 298.

Writing

Two college-level English Composition courses

Oral Communication

SP 111

Mathematics

MTH 105 (or higher)

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options.

Arts and Letters

Choose three (3) courses from the Discipline Studies list.

Science/Math/Computer Science

Choose three (3) courses from the Discipline Studies list, including at least one biological science with a lab.

Social Science

Choose three (3) courses from the Discipline Studies list.

ELECTIVES

As required to bring overall credits to 45 credits. Courses must be from COCC's Discipline Studies list.

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associate of Applied Science degree trains students in specific technical areas to prepare for immediate employment upon graduation. Students must have a minimum cumulative GPA of 2.0.

Advantages

- The AAS degree provides students with the hands-on technical skills needed for employment or certification/licensure in a variety of career areas.
- The AAS degree is generally a two-year degree option for full-time students. COCC provides certificates of completion in many other Career and Technical Education (CTE) areas which require one to six terms to complete.

Considerations

- The degree is not intended to transfer, though most general education and some Career and Technical Education (CTE) courses are eligible for transfer.
- Certification obtained through the completion of career and technical programs does not imply or guarantee reciprocity or job attainment in another state or in another country.

See individual program pages for AAS degree requirements.

ASSOCIATE OF ARTS OREGON TRANSFER DEGREE (AAOT)

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university, some Oregon private colleges and some out-of-state universities having met all lower-division general education requirements. With appropriate planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The AAOT degree is not associated with a major, and is awarded as "Associate of Arts/Oregon Transfer." However, COCC provides specific focus areas (psychology, geology, etc.) within the degree that can assist students with selecting courses that align with the student's intended program of study and the degree requirements of the baccalaureate institution to which the student plans to transfer.

Advantages

- Fulfills the lower-division (freshman/sophomore) general education requirements for baccalaureate degrees at all Oregon Public Universities.
- Allows student to transfer with junior standing for registration purposes.

Colleges which accept the COCC AAOT degree besides Oregon's public universities include: Concordia College (OR), George Fox College (OR), Linfield College (OR), Marylhurst College (OR), Pacific University (OR), University of Portland (OR), Warner Pacific College (OR) and Willamette University (OR), Evergreen State College (WA), Pacific Lutheran University (WA) and Washington State University (WA).

Considerations

- No formal agreements exist for this degree to meet general education requirements at out-of-state colleges, although courses for COCC's AAOT degree parallel many of them.
- Students transferring to an Oregon public university should review any world language and specialty course requirements of the transfer institution.
- The AAOT does not guarantee that two additional years will suffice to earn a baccalaureate degree nor give students junior standing in their majors. Students must still meet their transfer institution's admission requirements.
- Students may transfer prior to receiving an AAOT degree.
 However, they risk losing credits that are normally accepted
 within the degree or may fall short on the transfer institution's
 general education requirements.

All courses must be completed with a "C" or better. Students must have a minimum cumulative GPA of 2.0 and must complete a total of 90 credits at the time the AAOT is awarded. Individual courses may only be used to fulfill one requirement (except the cultural literacy requirement).

Note: Both Foundational requirements and Discipline Studies courses listed below must be a minimum of three (3) credits except for HHP which may be any number of credits. All elective courses may be any number of credits.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

The following course numbers cannot be used in foundational requirements: X80, X88, X99, or 298.

Writing (minimum of 8 credits)

WR 121 and either WR 122 or WR 227

Oral Communication

SP 111 or SP 114 or SP 115 or SP 218 or SP 219

Mathematics

MTH 105 (or higher)

Health (3 credits with HHP prefix)

Identical HHP activity courses (1 credit) can only be counted once in this section.

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be a cultural literacy course, designated with an asterisk.

Arts and Letters

At least three (3) courses from at least two (2) prefixes.

Social Science

At least four (4) courses from at least two (2) prefixes.

Science/Math/Computer Science

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

ELECTIVES

Choose any course numbered 100 or above that brings the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable (see page 41 for list).

ASSOCIATE OF SCIENCE DEGREE (AS)

The Associate of Science (AS) degree is designed to prepare students to transfer to a specific four-year college or university, to a specific major, or both. In Oregon there are two types of Associate of Science degrees: the Associate of Science Oregon Transfer and the Associate of Science degrees approved by COCC. Students must have a minimum cumulative GPA of 2.0.

ASSOCIATE OF SCIENCE OREGON TRANSFER (ASOT)

Unlike the AAOT degree, the ASOT includes courses that institutional representatives recommend as preparation for specific majors. Please note that the degree does not guarantee completion of lower division major requirements for the major and that course, class standing and GPA requirements for specific majors are not necessarily satisfied. Students should always check with the receiving institutions to ensure they have the most current transfer and degree information. COCC currently offers Associate of Science Oregon Transfer degrees in Business and Computer Science.

Advantages

 Students can meet all or most general education and/or major requirements for a specific transfer college or university if appropriate courses are chosen.

Considerations

- The ASOT degree can limit a student's flexibility in choosing both the major and the transfer college.
- The ASOT degree does not assure junior standing at Oregon transfer universities and does not guarantee that a student will meet all lower-division general education and major requirements.

ASSOCIATE OF SCIENCE (AS)

COCC is approved by the state to offer AS degrees to prepare students to transfer to a specific baccalaureate program. Classes are identified to assist students in transitioning to upper division programs. Unlike the Associate of Arts Oregon Transfer or Associate of Science Oregon Transfer degrees, this degree has no guarantee on how it will be treated by receiving institutions. Students should always check with receiving institutions to ensure they have the most current transfer and degree information. COCC offers two types of AS degrees.

1. An AS degree that is of broad interest to students, and is approved and maintained in the catalog. COCC currently offers Associate of Science degrees with a focus in the following areas: Agricultural Science/Oregon State University (see page 46) Aviation/Oregon Institute of Technology (see page 63) Engineering (see page 93) Exercise Science/Kinesiology/Oregon State University (see page 96) Fire Service Administration/Eastern Oregon University (see page 98) Forestry/Oregon State University (see page 103) General Transfer/Oregon State University (see page 104) Medical Imaging/Oregon Institute of Technology (see page 129) Natural Resources/Oregon State University (see page 131) Outdoor Leadership/Oregon State University (see page 137).

2. An AS degree that is intended to meet the specific needs for an individual student, and is approved for an individual student. The student and advisor work closely together to tailor the courses to meet the transfer institution's lower-division general education and major requirements.

Advantages

- Students can meet all or most general education and/or major requirements for a specific transfer college or university if appropriate courses are chosen.
- The AS degree works well for students in more technical majors (e.g., science, business, engineering), but can also be designed for other majors.

Considerations

- The AS degree can limit a student's flexibility in choosing both the major and the transfer college.
- The AS degree does not assure junior standing at Oregon transfer universities and does not guarantee that a student will meet all lower-division general education and major requirements.
- As there are no majors associated with this degree, it is awarded as "Associate of Science" on the transcript and diploma.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

The following course numbers cannot be used in foundational requirements: X80, X88, X99, or 298.

All courses must be completed with a "C" or better.

Writing (minimum of 8 credits)

WR 121 and either WR 122 or WR 227

Oral Communication

(If required by destination college)

Mathematics

MTH 105 (or higher)

Health

(If required by destination college)

Digital Literacy

(If required by destination college)

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options.

Arts and Letters

Choose two (2) courses from the Discipline Studies list.

Social Science

Choose two (2) courses from the Discipline Studies list.

Science/Math/Computer Science

Choose two (2) courses from the Discipline Studies list.

ELECTIVES

Choose enough elective credits to reach a minimum total of 90 overall degree credits. Elective classes must be numbered 100 or above and can be any combination of general electives, Career and Technical Education (CTE) courses (12 credits maximum, see page 41 for list) or CWE/HHP/performance classes (15 credits maximum). Students transferring to an Oregon public university should review any world language and specialty course requirements of the transfer institution.

ASSOCIATE OF GENERAL STUDIES DEGREE (AGS)

For students who are not pursuing specific transfer or Career and Technical Education (CTE) programs, the Associate of General Studies (AGS) degree provides an alternative to pursue a broad general education and accomplish personal educational goals. It is important for a student to work closely with an advisor in designing a course plan for this degree. Students must have a minimum cumulative GPA of 2.0.

Advantages

 The AGS awards a degree for completion of college-level coursework in core skills and general education and allows students flexibility to customize more than half of the degree's required number of credits. It can be used to enhance employment, meet sponsoring agency requirements and/or meet unusual baccalaureate requirements.

Considerations

- The AGS degree is not transferrable as a whole and does not meet certification requirements for any Career and Technical Education (CTE) area.
- The AGS degree does not guarantee that a student will meet all lower-division general education and major requirements; however, with careful academic advising and in consideration of transfer institution requirements, the AGS degree may be designed to do so.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

The following course numbers cannot be used in foundational requirements: X80, X88, X99, or 298.

Courses must be completed with a "C" or better.

Writing (minimum of 8 credits)

WR 121 and either WR 122 or WR 227

Oral Communication

SP 111 or SP 114 or SP 115 or SP 218 or SP 219

Mathematics (minimum of 3 credits)

MTH 020 (or higher)

Health

4 credits of HHP prefix with a maximum of one (1) activity course (HHP 185XX).

Digital Literacy

CIS 120 or pass competency exam

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be a cultural literacy course, designated with an asterisk (*).

Arts and Letters

Choose one (1) course from the Discipline Studies list.

Social Science

Choose one (1) course from the Discipline Studies list.

Physical/Biological Lab Science

Choose one (1) course from the Discipline Studies list. Course must be a lab science.

Cultural Literacy

Choose one (1) course from the Discipline Studies list. Course must be a cultural literacy as denoted with an asterisk (*).

FLFCTIVES

Choose enough elective credits to reach a minimum total of 90 overall degree credits. Cannot include reading, writing or math classes below the 100 level.

TRANSFER DEGREE OUTCOMES

COCC is committed to a curriculum that promotes the transfer or career success of our students. To this end, COCC identifies student learning outcomes for courses, programs and degrees. Course outcomes are listed on the course syllabus; outcomes for Career and Technical Education programs can be found on program webpages. The following outcomes apply to COCC's transfer degrees listed below.

- Associate of Arts Oregon Transfer
- · Associate of Science Oregon Transfer
- Associate of Science
- Associate of General Studies

Arts and Letters

As a result of taking General Education Arts and Letters* courses, a student should be able to:

- Interpret and engage in the Arts and 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.
- *"Arts and Letters" refers to works of art, whether written, crafted, or performed and documents of historical or cultural significance.

Cultural Literacy

As a result of taking a designated Cultural Literacy course, a student should be able to:

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

Health

As a result of taking General Education Health courses, a student should be able to:

 Understand chronic health risks and how to implement holistic, lifestyle behavior change to enhance personal and communitywide safety, health and fitness.

Mathematics

As a result of taking General Education Mathematics courses, a student should be able to:

- Use appropriate mathematics to solve problems; and
- 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/Math/Computer Science

As a result of taking General Education Science/Math/Computer Science courses, a student should be able to:

- 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.

Social Science

As a result of taking General Education Social Science courses, a student should be able to:

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

Speech/Oral Communication

As a result of taking General Education Speech/Oral Communication courses, a student should be able to:

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

Writing and Information Literacy

As a result of completing the General Education Writing sequence, a student should be able to:

- Read actively, think critically, and write purposefully and capably for academic and, in some cases, professional audiences; and
- Locate, evaluate and ethically utilize information to communicate effectively; and
- Demonstrate appropriate reasoning in response to complex issues; and
- Formulate a problem statement; and
- Determine the nature and extent of the information needed to address the problem; and
- Access relevant information effectively and efficiently; and
- · Evaluate information and its source critically and
- Understand many of the economic, legal and social issues surrounding the use of information.

CAREER AND TECHNICAL COURSES

Students may use up to 12 credits of Career and Technical Education (CTE) courses to meet elective credit requirements for the Associate of Arts Oregon Transfer (AAOT) and Associate of Science (AS) degree. Career and Technical Education (CTE) courses are numbered 100 and higher from the list below. Note that they are generally not accepted by baccalaureate institutions unless used within the AAOT degree.

AH 100 Introduction to Health Occupations

AH 111 Medical Terminology I

AH 112 Medical Terminology II

AUT All courses

AV All courses

BAK All courses

CIS All courses except CIS 275 and CIS 276

CUL All courses

DA All courses

EMT All courses

FOR 130 Chainsaw Use and Maintenance

GEOG 211 Computer Cartography

GEOG 265 Geographic Information Systems

GEOG 266 Arc GIS

GEOG 267 Geodatabase Design

GEOG 273 Spatial Data Collection

GEOG 280 Co-op Work Experience GIS

GEOG 284 GIS Customization

GEOG 285 Data Conversion/Documentation

GEOG 286 Remote Sensing

GEOG 287 Analysis of Spatial Data

HIT All courses

LMT All courses

MA All courses

MFG All courses NUR All courses

OA All courses

SFS All courses

SFS All courses

VT All courses

WF All courses

HUMAN RELATIONS LIST

AH 115 Cultural Responsiveness in Allied Health (3 credits)

ANTH 103 Cultural Anthropology (4 credits)

BA 178 Customer Service (3 credits)

BA 206 Management Fundamentals I (4 credits)

BA 285 Business Human Relations (3 credits)

ED 176 Social, Emotional and Mental Health in ECE (3 credits)

ED 219 Multicultural Issues in Education Settings (3 credits)

FOR 211 Supervision and Leadership (3 credits)

GEOG 107 Cultural Geography (4 credits)

HM 130 Hospitality Industry Supervision & Principles of Leadership (3 credits)

HS 101 Orientation to Human Services (3 credits)

HS 162 Effective Helping Skills I (4 credits)

HS 208 Multicultural Issues Human Services (4 credits)

PSY 101 Applied Psychology (3 credits)

PSY 216 Social Psychology (4 credits)

PSY 228 Positive Psychology (4 credits)

SOC 201 Introduction to Sociology (4 credits)

SP 218 Interpersonal Communication (3 credits)





DISCIPLINE STUDIES COURSES

The following COCC courses have been approved by the College's Curriculum Committee for use as General Education Discipline Studies courses for the AAOT, AS, AAS and AGS degrees. *Counts as a cultural literacy course.

Arts and Letters Discipline Studies course options AH 205 Medical Ethics (3 credits) *ARH 201, 202, 203 Art History I, II, III (4 credits each) *ARH 206 Modern Art History (4 credits) *ARH 207 Native American Art History (4 credits) *ARH 208 Art History: Non-Western (4 credits) ART 101 Introduction to the Visual Arts (4 credits) ART 115 Basic Design: 2-D (3 credits) ART 116 Basic Design: Color (3 credits) ART 117 Basic Design: 3-D (3 credits) ART 131, 132, 133 Drawing I, II, III (3 credits each) *CHN 141 Chinese Culture Through Film (4 credits) CHN 201, 202, 203 Second Year Mandarin Chinese I, II, III (4 credits each) ED 112 Children's Literature Across the Curriculum (3 credits) ENG 104 Introduction to Literature: Fiction (4 credits) ENG 105 Introduction to Literature: Drama (4 credits) ENG 106 Introduction to Literature: Poetry (4 credits) *ENG 107 Western World Literature: Ancient (4 credits) *ENG 108 Western World Literature: Middle Ages (4 credits) *ENG 109 Western World Literature: Modern (4 credits) ENG 201, 202 Shakespeare (4 credits each) *ENG 204, 205 Survey of British Literature I, II (4 credits each) ENG 212 Autobiography (4 credits) *ENG 221 Introduction to Children's Literature (4 credits) ENG 232C Topics in American Literature: Contemporary Fiction (4 credits) *ENG 250 Introduction to Folklore and Mythology (4 credits) *ENG 253, 254 Survey of American Literature I, II (4 credits each) ENG 256 Folklore and U.S. Popular Culture (4 credits) *ENG 260 Introduction to Women Writers (4 credits) FA 101 Introduction to Film (3 credits) FA 125 World Cinema (4 credits) FA 257 Literature into Film (4 credits) *FR 201, 202, 203 Second Year French I, II, III (4 credits each) *FR 211, 212, 213 French Conversation & Culture I, II, III (3 credits each) *GER 201, 202, 203 Second Year German I, II, III (4 credits each) HUM 106 British Life & Culture (3 credits) *HUM 210 Culture and Literature of Asia (4 credits) *HUM 211 Culture and Literature of Africa (4 credits) *HUM 212 Culture and Literature of the Americas (4 credits) *HUM 213 Culture and Literature of the Middle East (4 credits) *HUM 230 Immigrant Experience in American Literature (4 credits) *HUM 240 Native American Literature & Culture (4 credits) *HUM 255 Cultural Diversity in Contemporary American Literature (4 credits) *HUM 256 Introduction to African-American Literature (4 credits) HUM 261 Popular Culture: Science Fiction (4 credits) *HUM 262 Popular Culture: The American Western (4 credits) HUM 263 Popular Culture: Detective Stories (4 credits) HUM 264 Popular Culture: Spy Thriller (4 credits) HUM 265 Popular Culture: Noir Film and Fiction (4 credits) HUM 266 Popular Culture: Travel Literature (4 credits) HUM 268 Digital Games Culture (4 credits) HUM 269 Graphic Novels (4 credits) *IT 201, 202, 203 Second Year Italian I, II, III (4 credits) MUS 101 Music Fundamentals (3 credits) MUS 111, 112, 113 Music Theory IA, IB, IC (3 credits each)

MUS 201, 202, 203 Understanding Music (3 credits each)

MUS 211, 212, 213 Music Theory IIA, IIB, IIC (3 credits each)

*MUS 205 Introduction to Jazz History (3 credits)

PHL 170 Philosophy of Love and Sex (3 credits)

PHL 200 Fundamentals of Philosophy (4 credits)

MUS 207 History of Rock Music (3 credits)

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PHL 201 Problems of Philosophy - Epistemology (3 credits)
PHL 202 Problems of Philosophy - Ethics (3 credits)
PHL 203 Problems of Philosophy - Logic (3 credits)
*SPAN 201, 202, 203 Second Year Spanish I, II, III (4 credits each)
*SPAN 211, 212, 213 Spanish Conversation and Culture I, II, III (3 credits each)
*SP 115 Introduction to Intercultural Communication (4 credits)
SP 230 Introduction to the Rhetoric of Film (3 credits)
SP 234 Introduction to Visual Rhetoric (3 credits)
SP 241 Media, Communication, Society (4 credits)
TA 141, 142, 143 Acting I, II, III (3 credits each)
TA 200 Introduction to Theater (3 credits)
TA 207 Readings in Theater (3 credits)
WR 240 Introduction to Creative Writing: Nonfiction (4 credits)
WR 241 Introduction to Creative Writing: Fiction (4 credits)
WR 242 Introduction to Creative Writing: Poetry (4 credits)
WR 243 Introduction to Creative Writing: Scriptwriting (4 credits)
*WS 101 Introduction to Women's and Gender Studies (4 credits)
Science/Math/Computer Science Discipline Studies
course options, all lab courses, plus the following
ANTH 235 Evolution of Human Sexuality (4 credits)
ANTH 237 Forensic Anthropology (4 credits)
CS 160 Computer Science Orientation (4 credits)
CS 161, 162 Computer Science I, II (4 credits each)
ENGR 201 Electrical Fundamentals (3 credits)
FN 225 Human Nutrition (4 credits)
FOR 230A Map, Compass and GPS (3 credits)
FOR 240A Forest Ecology (3 credits)
FOR 240B Wildlife Ecology (3 credits)
FOR 241A Field Dendrology (3 credits)
FOR 251 Recreational Resource Management (3 credits)
FOR 260 Conservation of Natural Resources (3 credits)
FW 251 Wildlife Conservation (3 credits)
GEOG 265 Geographic Information Systems (4 credits)
HHP 240 Science of Nutrition (3 credits)
HHP 259 Care and Prevention of Athletic Injury (3 credits)
HHP 260 Anatomical Kinesiology (4 credits)
HHP 261 Exercise Physiology (4 credits)
HHP 262 Exercise Testing and Prescription (3 credits)
HS 224 Psychopharmacology (4 credits)
MTH 105 Math in Society (4 credits)
MTH 111 College Algebra (4 credits)
MTH 112 Trigonometry (4 credits)
MTH 113 Topics in Precalculus (4 credits)
MTH 211, 212, 213 Fundamentals Elementary Math I, II, III (4 credits each)
MTH 231 Discrete Mathematics I (4 credits)
MTH 241 Calculus for Management/Social Science (4 credits)
MTH 243 Introduction to Methods of Probability & Statistics I (4 credits)
MTH 244 Introduction to Methods of Probability & Statistics II (4 credits)
MTH 245 Math for Mgmt/Social Science (4 credits)
MTH 251, 252, 253 Calculus I, II, III (4 credits)
MTH 254, 255 Vector Calculus I, II (4 credits)
MTH 256 Applied Differential Equations (4 credits)
  Science Lab Courses
  ANTH 234 Biological Anthropology (4 credits)
  BI 101 General Biology: Cells & Genes (4 credits)
  BI 102 General Biology: Evolution (4 credits)
  BI 103 General Biology: Ecology (4 credits)
  BI 211 Principles of Biology I (5 credits)
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BI 212 Biology of Plants II (5 credits)

BI 213 Biology of Animals III (5 credits)

DISCIPLINE STUDIES COURSES (continued)

BI 231, 232, 233 Human Anatomy & Physiology I, II, III (4 credits each)

BI 234 Microbiology (4 credits)

BOT 203 General Botany (4 credits)

CH 104, 105, 106 Introduction to Chemistry I, II, III (5 credits each)

CH 221, 222, 223 General Chemistry I, II, III (5 credits each)

G 148 Volcanoes and Earthquakes (4 credits)

G 162CV Geology of Cascade Volcanoes (3 credits)

G 201, 202, 203 Geology I, II, III (4 credits each)

G 207 Geology of the Pacific Northwest (4 credits)

GEOG 278 Physical Geography:Landforms and Water (4 credits)

GEOG 279 Physical Geography: Weather and Climate (4 credits)

GS 104 Physical Science: Physics (4 credits)

GS 105 Physical Science: Chemistry (4 credits)

GS 106 Physical Science: Geology (4 credits)

GS 107 Physical Science: Astronomy (4 credits)

GS 108 Physical Science: Oceanography (4 credits)

PH 201, 202, 203 General Physics I, II, III (5 credits each)

PH 211, 212, 213 General Physics I, II, III (5 credits each)

PSY 204 Research Methods (4 credits)

PSY 213 Introduction to Physiological Psychology (4 credits)

PSY 227 Animal Behavior (4 credits)

Social Sciences Discipline Studies course options

ANTH 102 Archaeology (4 credits)

*ANTH 103 Cultural Anthropology (4 credits)

*ANTH 202 Archaeology of Oregon (4 credits)

*ANTH 240 Language and Culture (4 credits)

*ANTH 250 Food and Culture (4 credits)

*ANTH 254 Magic, Witchcraft and Religion (4 credits)

*ANTH 283 Introduction to Medical Anthropology (4 credits)

*ANTH 295 Gender & Sexuality in an Anthropological Perspective (4 credits)

CJ 100 Survey of the Criminal Justice System (3 credits)

CJ 101 Introduction to Criminology (4 credits)

CJ 110 Law Enforcement (3 credits)

CJ 120 Judicial Process (3 credits)

CJ 153 Ethical Issues in Criminal Justice (3 credits)

CJ 201 Introduction to Juvenile Justice (3 credits)

CJ 210, 211 Criminal Investigation I, II (3 credits each)

CJ 214 Crime, Justice and Diversity (4 credits)

CJ 220 Introduction to Substantive Law (3 credits)

CJ 222 Search and Seizure (3 credits)

CJ 230 Juvenile Corrections (3 credits)

CJ 234 The World of Violent Criminals (3 credits)

CJ 243 Drugs and Crime in Society (3 credits)

CJ 253 Corrections (4 credits)

EC 101 Contemporary Economic Issues (4 credits)

EC 201 Microeconomics (4 credits)

EC 202 Macroeconomics (4 credits)

EC 230 International Economics (4 credits)

EC 285 Intro to Political Economy (4 credits)

ED 152 Family, School and Community Relationships in ECE (3 credits)

*ED 216 Purpose, Structure and Function of Education in a Democracy (3 credits)

*ED 219 Multicultural Issues in Education Settings (3 credits)

*ES 213 Introduction to Chicano/Latino Studies (4 credits)

GEOG 106 Economic Geography (4 credits)

*GEOG 107 Cultural Geography (4 credits)

GEOG 190 Environmental Geography (4 credits)

GEOG 198 Field Geography of Central Oregon (3 credits)

*GEOG 201, 202 World Regional Geography I, II (4 credits each)

GEOG 207 Geography of Oregon (3 credits)

GEOG 240 Geography of Central Oregon (3 credits)

GEOG 290 Environmental Problems (3 credits)

GEOG 295 Wilderness and Society (4 credits)

HHP 100 Introduction to Public Health (4 credits)

*HHP 248 Health Psychology (4 credits)

HHP 267 Wellness Coaching Fundamentals (3 credits)

HHP 268 Sustainable Food and Nutrition (4 credits)

HHP 270 Sport & Exercise Psychology (3 credits)

HS 101 Orientation to Human Services (3 credits)

HS 206 Group Counseling Skills for Human Services (4 credits)

*HS 208 Multicultural Issues in Human Services (4 credits)

HS 209 Introduction to Psychological Trauma (4 credits)

*HST 101 History of Western Civilization (4 credits)

*HST 102 Europe: From the Middle Ages to Enlightenment (700-1700 C.E.) (4 credits)

*HST 103 Europe: Revolution & War (1789 – Present) (4 credits)

*HST 104 Ancient Societies (Pre-history-500 C.E.) (4 credits)

*HST 105 The Expansion of World Religions (500–1700) (4 credits)

*HST 106 Modern World History: Industrialization, Nations and War

(1800–Present) (4 credits)

*HST 201 Early America: History of the United States (Pre-history–1820)

(4 credits)

*HST 202 19th and early 20th Century United States History (1820–1920) (4 credits)

*HST 203 20th and early 21st Century United States History (1920–the Present) (4 credits)

*HST 204 History of the Civil War (4 credits)

*HST 207 History of the American West (4 credits)

*HST 218 Native American History (4 credits)

*HST 225 US Women's History (4 credits)

*HST 235 Sexuality in 20th Century Europe (4 credits)

*HST 242 History of the Pacific Northwest (4 credits)

*HST 258 Colonial Latin American History (4 credits)

*HST 259 Modern Latin American History (4 credits)

*HST 260 History of Islamic Civilizations (4 credits)

*HST 270 20th Century European History (4 credits)
*HST 290, 291, 292 East Asian History (4 credits each)

OL 244 Psychology of Risk and Adventure (3 credits)

PS 201 Introduction to US Government and Politics (4 credits)

PS 203 State/Local Government (3 credits)

PS 204 Introduction to Comparative Politics (4 credits)

PS 205 Introduction to International Relations (4 credits)

PS 206 Introduction to Political Thought (4 credits)

PS 207 Politics of the Middle East (4 credits)

PS 250 Terrorism and the American Public (4 credits)

*PSY 101 Applied Psychology (3 credits)

PSY 201 Mind and Brain (4 credits)

*PSY 202 Mind and Society (4 credits)

*PSY 215 Developmental Psychology (4 credits)

*PSY 216 Social Psychology (4 credits)

*PSY 219 Abnormal Psychology (4 credits)

*PSY 228 Positive Psychology (4 credits)

*PSY 233 Psychology of Violence and Aggression (4 credits)

*SOC 201 Introduction to Sociology (4 credits)

SOC 208 Sport & Society (4 credits)

SOC 211 Social Deviance (4 credits)

*SOC 212 Race, Class and Gender (4 credits)

SOC 215 Social Issues and Social Movements (4 credits)

*SOC 219 Sociology of Religion (4 credits)

SOC 222 Sociology of Family (4 credits)

*SOC 250 Sociology of Popular Cultures (4 credits)

^{*}Counts as a cultural literacy course

ADDICTIONS STUDIES AND HUMAN SERVICES

Certificate of Completion 85-86 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Addictions Studies and Human Services

PROGRAM DESCRIPTION

The Addictions Studies and Human Services Certificate program trains individuals in the knowledge, attitudes and skills needed for employment in the drug- and alcohol-treatment field as entry-level counselors working under supervision in treatment centers. It is designed to prepare the student to take the Oregon Certified Alcohol and Drug Counselor (CADC) Level I exam upon completion of the coursework and 1,000 hours of supervised experience. The program also provides coursework in the addictions field to other human service and criminal justice workers who help addicted persons and their families.

All COCC students enrolled in Addictions Studies (which includes requirements for practical experience) may have to pass a criminal background check (CBC) as a condition of their acceptance into a practicum for training. Students who do not pass the CBC may not be eligible to complete training at affiliated practicum sites, to sit for certification exams, or to be hired for some professional positions. Students whose past history may interfere with the ability to complete the program of study or to obtain licensure or certification in their chosen field should contact the appropriate state board or the program director.

ASSOCIATE OF APPLIED SCIENCE

After obtaining the CADC I credential, students looking for more advanced opportunities in the field should complete the Associate of Applied Science degree and acquire further work experience. The student could then sit for the CADC II exam.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

- Travel costs for practicum, three terms, costs based on location
- State Board exams (ACCBO): \$50 application fee, \$220 exam fee
- Videotaping fees for two terms: approximately \$50
- Background check for practicum placement: approximately \$50

PROGRAM PREPARATION AND PREREQUISITES

Recommended prior to entry in program (HS) courses

- High school diploma or GED
- Minimum placement scores resulting in WR 121 placement OR completion of WR 065/095 ("C" or better)
- Students should have basic computer competency skills

REGISTRATION INFORMATION

Students may take non-program support courses, particularly writing, if they need to build skills related to the prerequisites.

HS 161, HS 162 and HS 208 require completion of WR 121, WR 122 or WR 227, MTH 031 or higher and HS 101 prior to enrollment.

PROGRAM STANDARDS

Students must maintain a minimum 2.0 GPA while enrolled in the program (HS) courses; students who do not meet this standard will not be awarded a certificate.

Other requirements may be found in the Addictions Studies Student Handbook available at cocc.edu/addictions-studies.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

The Addictions Studies program is a preparation for the state certification for becoming an Oregon Certified Alcohol and Drug Counselor (CADC) Level I. This certification requires that students complete 1,000 hours of practicum (internship). Some practicum sites require that students successfully complete a criminal background check.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often most credits are considered as elective credits, transferrable to public or private baccalaureate institutions.

MINIMUM GPA OR GRADE REQUIREMENTS

All courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

A student may be considered ineligible for continued enrollment in the program if:

- The student has failed to satisfactorily complete a given Human Services/Addictions Studies course after re-enrolling in that course once (one time).
- The student has two chances to pass a Human Services/Addictions Studies course.

PROGRAM REQUIREMENTS

HS 101	Orientation to Human Services	3
HS 161	Ethics for Human Services	4
HS 162	Effective Helping Skills I	4
HS 180	HIV/AIDS and Addictions	2
HS 200	Addictive Behavior	3
HS 201	Families and Addictions	2 3 3
HS 205	Youth and Addictions	3
HS 206	Group Counseling Skills for Human Services	4
HS 208	Multicultural Issues in Human Services	4
HS 209	Introduction to Psychological Trauma Theory & Practice	4
HS 210	Dual Diagnosis	4
HS 224	Psychopharmacology	4
HS 250	Process Addictions	4
HS 260	Counseling Theories	4
HS 262	Effective Helping Skills II	4
HS 263	Counseling the Chemically Dependent Client	3
HS 266	Case Management for the Chemically Dependent Client	4
HS 290	Introduction to Practicum in Human Services	1
HS 291	Practicum in Human Services I	4
HS 292	Practicum in Human Services II	4
HS 293	Practicum in Human Services III	4
MTH 031	Health Care Math 3	-4
(or higher)		
WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	

ADDICTIONS STUDIES AND HUMAN SERVICES

Associate of Applied Science (AAS) Degree 94-98 credits

PROGRAM REQUIREMENTS

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Addictions Studies and Human Services

PROGRAM DESCRIPTION

The AAS degree prepares students academically for the CADC II certification. Individuals will need an additional 3,000 hours supervised experience (for a total of 4,000) to sit for this exam. For more information: accbo.com/certifications.php.

All COCC students enrolled in Addictions Studies (which includes requirements for practical experience) may have to pass a criminal background check (CBC) as a condition of their acceptance into a practicum for training. Students who do not pass the CBC may not be eligible to complete training at affiliated practicum sites, to sit for licensure or certification exams, or to be hired for some professional positions. Students whose past history may interfere with the ability to complete the program of study or to obtain licensure or certification in their chosen field should contact the appropriate state board or the program director.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

- Travel costs for practicum, three terms, costs based on location
- State Board exams (ACCBO): \$50 application fee, \$220 exam fee
- Videotaping fees for two terms: approximately \$50
- Background check for practicum placement: approximately \$50

MINIMUM GPA OR GRADE REQUIREMENTS

All HS courses must be completed with a "C" grade or better and graduates must have an overall 2.0 GPA or higher. A student may be considered ineligible for continued enrollment in the program if:

- The student has failed to satisfactorily complete a given Human Services/Addictions Studies course after re-enrolling in that course once (one time).
- The student has two chances to pass a Human Services/Addictions Studies course.

REGISTRATION INFORMATION

Students may take non-program support courses, particularly writing, if they need to build skills related to the prerequisites.

HS 161, HS 162 and HS 208 require completion of WR 121, WR 122 or WR 227, MTH 031 or higher and HS 101 prior to enrollment.

Health	(3 credits with HHP prefix)	3
HHP activity co	ourses (1 credit each) are not to be duplicated	
HS 101	Orientation to Human Services	3
HS 161	Ethics for Human Services	4
HS 162	Effective Helping Skills I	4
HS 180	HIV/AIDS and Addictions	2
HS 200	Addictive Behavior	4 2 3 3 3
HS 201	Families and Addictions	3
HS 205	Youth and Addictions	3
HS 206	Group Counseling Skills for Human Services	4
HS 208	Multicultural Issues in Human Services	4
HS 209	Introduction to Psychological Trauma Theory & Practic	ce 4
HS 210	Dual Diagnosis	4
HS 224	Psychopharmacology	4
HS 250	Process Addictions	4
HS 260	Counseling Theories	4
HS 262	Effective Helping Skills II	4
HS 263	Counseling the Chemically Dependent Client	3
HS 266	Case Management for the Chemically Dependent Clie	ent 4
HS 290	Introduction to Practicum in Human Services	1
HS 291	Practicum in Human Services I	4
HS 292	Practicum in Human Services II	4
HS 293	Practicum in Human Services III	4
MTH 031	Health Care Math	3-4
(or higher)		
SP 111	Fundamentals of Public Speaking	3-4
or SP 114	Argumentation and Critical Discourse	
or SP 115	Introduction to Intercultural Communication	
or SP 218	Interpersonal Communication	
or SP 219	Small Group Communication	
WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	

GENERAL EDUCATION/DISCIPLINE STUDIES

Complete one or more courses from the Discipline Studies list in order to meet the degree credit minimum. The courses may not use an HS prefix and must have different prefixes from each other.

AGRICULTURAL SCIENCES

Associate of Science (AS) Degree - Preparation for Transfer to Oregon State University 90 credits

The Associate of Science (Agricultural Sciences, Oregon State University emphasis) fulfills many of the lower division requirements of a Bachelor of Science in agricultural sciences from Oregon State University – Corvallis. Course requirements for other agricultural majors at Oregon State University and other universities will differ. Most other agricultural majors at Oregon State University and other universities will require the 200 series of courses in biology, chemistry and either MTH 241 or MTH 251. Students planning to transfer to any university agricultural program must meet with a COCC advisor to discuss current transfer requirements.

This information reflects an accurate picture of OSU requirements at the time of approval, using the OSU catalog, advisors and web resources for consultation. However, degree requirements can and do change. OSU has made no guarantee about the accuracy of requirements in this AS degree; determination of transfer status is made on an individual course basis at the point of admission to OSU.

Courses must be completed with a grade of "C" or better.

BACCALAUREATE CORE

Skills

Writing I	WR 121 Academic Composition	4
Writing II	Met by Program Requirements	
Writing III	SP 111 Fundamentals of Public Speaking	3-4
or	SP 114 Argumentation and Crit. Discourse	
Mathematics	Met by Program Requirements	
Fitness	HHP 295 Health and Fitness	3

Perspectives Courses

No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core. GEO courses listed under Physical Science are considered to be from a different department than GEO courses listed under any other Perspective category. Choose from the OSU Baccalaureate Core Courses listed on pages 246-247 the following: one Biological Science lecture/lab combination, one Cultural Diversity, one Literature and the Arts, one Physical Science lecture/lab combination, one Social Processes and Institutions, one Western Culture, one Difference, Power and Discrimination, plus one additional lecture/lab combination from either Physical Science or Biological Science.

Choose one course in each of the following categories:

D	hveical	l Science

Met by Program Requirements

Biological Science

Met by Program Requirements

Physical or Biological Science

Met by Program Requirements	
Western Culture	
	3-4
Cultural Diversity	
	4
Literature and the Arts	
	3-4
Social Processes and Institutions	

Met by Program Requirements

Difference, Power and Discrimination

4

	RAL SCIENCES PROGRAM REQUIREMENTS	
BA 217	Accounting Fundamentals	4
BI 101	General Biology: Cells & Genes ¹	4-5
or BI 211	Principles of Biology I	
BI 102	General Biology: Evolution	4-5
or BI 212	Biology of Plants II	
BI 103	General Biology: Ecology	4-5
or BI 213	Biology of Animals III	
CH 104	Introduction to Chemistry I	5
or CH 221	General Chemistry I	
CH 105	Introduction to Chemistry II	5
or CH 222	General Chemistry II	
CIS 120	Computer Concepts	4
EC 201	Microeconomics	4
FOR 208	Soils: Sustainable Ecosystems	4
MTH 105	Math in Society	4
(or higher)		
WR 227	Technical Writing	4

ELECTIVES

Choose enough elective credits from the following list to reach a minimum of 90 overall degree units (with a maximum of 12 Career and Technical Education (CTE) credits). Although not required for the Oregon State University Agricultural Science major, the following courses may be accepted as elective for the major or as requirements for other agricultural degrees.

	4
Business Law I Introduction to Chemistry III	5
General Chemistry III	
Conservation of Natural Resources	3
MATC Orientation and	1
Welding Technology I	4
College Algebra	4
Trigonometry	
Calculus for Mgmt/Soc Science	
Topics in Precalculus	4
Calculus I	4
1st Year Spanish I and	4
1st Year Spanish II or higher	4
	Conservation of Natural Resources MATC Orientation and Welding Technology I College Algebra Trigonometry Calculus for Mgmt/Soc Science Topics in Precalculus Calculus I 1st Year Spanish I and

Transferrable from OSU E-Campus 3 Personal Leadership Development AG 242 **ANS 121** Introduction to Animal Science AREC 221 Marketing in Agriculture 3 AREC 250 Introduction to Environmental Economics and Policy 3 **HORT 111** Introduction to Horticultural Crop Production **HORT 112** Intro. to Horticultural Systems, Practices and Careers

ADVISING NOTES

¹ Biology 211, 212 and 213 and CH 221, 222 and 223 recommended.

Program Descriptions

ANTHROPOLOGY

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in anthropology.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

9 21 (210 (2 22		1.0
Writing		
WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	n 4
or WR 227	Technical Writing	
Oral Commu	nication	
SP 111	Fundamentals of Public Speaking	3-4
or SP 114	Argumentation and Critical Discourse	
or SP 115	Introduction to Intercultural Communication	
or SP 218	Interpersonal Communication	
or SP 219	Small Group Communication	
A A 4 4		
Mathematics MTH 105		4
(or higher)	Math in Society	4
Recommend:		
MTH 111	College Algebra	
	dits with HHP prefix)	3
HHP activity co	ourses (1 credit each) are not to be duplicated	
GENERAL E	DUCATION/DISCIPLINE STUDIES	
	ine Studies list for options. One of the courses mus	t be
,	the list as a cultural literacy course.	
Arts and Lett	,	0.10
		9-12
At least three (3) courses from at least two (2) prefixes.	
Social Science	ce	12-16
At least four (4) courses from at least two (2) prefixes.	
Recommend:		
ANTH 102	Archaeology	4
ANTH 103	Cultural Anthropology	4
ANTH 240	Language and Culture	4
Science/Matl	h/Computer Science ¹	12-20
	courses from at least two (2) prefixes including at	t least
	atory courses in biological and/or physical science.	
Recommend:	,	
ANTH 234	Biological Anthropology (lab science)	4
ELECTIVES		
General Electiv	10S ²	24-30
Concrar Electiv		

ADVISING NOTES

- ¹ In general, very few bachelor's degrees in Anthropology have specific science requirements. However, if the interest is primarily archaeological, then Geology would fulfill the lab requirements. If the interest is primarily in physical anthropology, then select a Biology sequence or the Human Anatomy and Physiology sequence.
- ² In choosing electives, consider two years of a world language since many BA degrees (including many anthropology programs) require two years or equivalent of a world language. Some anthropology degrees may also require an upper-division statistics course. Taking MTH 243 and MTH 244 is good preparation for the upper-division requirement. Either of these could count toward the non-lab requirement in the science/math/computer science general education requirement.

ART

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

COCC's Art program includes courses in art history, drawing, 2D basic design, 3D design, painting, sculpture, ceramics, jewelry and metalwork, digital and darkroom photography and watercolor. COCC's main art facility, Pence Hall, houses art studios equipped with drawing and design tables, easels and canvas preparation areas, potter's wheels, hand building, glazing and kiln firing areas and metalwork equipment for student use.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in art.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

GENERALEL	DOCATION/FOUNDATIONAL REQUIREMENTS	,
Writing WR 121 WR 122 or WR 227	Academic Composition Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu SP 111 or SP 114 or SP 115 or SP 218 or SP 219		3-4
Mathematics MTH 105 (or higher)	Math in Society	4
Recommend: MTH 111	College Algebra	
	dits with HHP prefix) ourses (1 credit each) are not to be duplicated	3
See the Discipl	DUCATION/DISCIPLINE STUDIES ine Studies list for options. One of the courses must be the list as a cultural literacy course.	

Arts and Latters	0.12

At least three (3) courses chosen from at least two (2) prefixes.

Select two art history courses from the following:

4 0 1 1 0 0 1	A . (14.)				5					
ARH 201	Art History	1								4
ARH 202	Art History	Ш								4
ARH 203	Art History	Ш								4
DI	I lear I		00001	ь.		٠.	1.	1	- 1	-1

Plus one additional course from COCC's Discipline Studies list, other than an ARH prefix, preferably with an ART prefix.

Social Science	12-16
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At least four (4) courses from at least two (2) prefixes.

Science/Math/Computer Science 12-20

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

ELECTIVES

ART 115	Basic Design: 2-D	3
ART 116	Basic Design II: Color	3
ART 117	Basic Design III: 3-D	3
ART 131	Drawing I	3

Plus enough additional electives to reach the minimum of 90 credits for the AAOT. Art majors should take additional studio art courses in consultation with their advisor.

Two years of a world language is also recommended.

TRANSFER INFORMATION

Successful transfer to an upper-division arts school or program is usually based not only on transcripts, but also on the student's portfolio. Students seeking transfer to an accredited art school in Oregon or elsewhere are encouraged to work closely with their advisors to build that portfolio.

AUTOMOTIVE TECHNOLOGY – AUTOMOTIVE MANAGEMENT

Associate of Applied Science (AAS) Degree 102-107 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Automotive Management or Associate of Applied Sciences in Automotive Technology in Electronics and Diagnostics (TED)

PROGRAM DESCRIPTION

The Automotive Technology program emphasizes educating students as multi-skilled workers with the ability to complete a wide variety of tasks within the automotive technology service and repair setting. Coursework includes technical skills in computer applications, electrical, electronic, mechanical, hydraulic and network systems, both in theory as well as hands-on training. A self-paced method of instruction is offered for the entry-level courses. Communication skills are also highly emphasized throughout each program.

Both the AAS degree and certificate option enable students to enter the transportation industry as an automotive technician and/or middle management. Entry into the program at the beginning of each term is possible by meeting course prerequisites or receiving the instructor's permission. The Automotive Technology program is certified by the National Automotive Technicians Education Foundation (NATEF). The program is approved for veterans' training.

The following courses are required for COCC's AAS in Automotive Technology degree. Students should work closely with an advisor if they wish to attend part time. Note that several of the courses qualify students to also earn short-term certificates in various automotive technology areas. See the Automotive Technology certificates on the following pages.

Students are expected to supply their own hand tools. A list is available from program instructors. Approximate cost of required tools and working clothes is \$1,700 to \$2,700. The College provides any needed specialized tools and equipment for use in courses.

It is recommended that the ASE (Automotive Service Excellence) certification test be taken as the student completes the program. Pretesting for ASE Certification and ASE Test Prep courses will be made available.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

- Program fee of \$15 per required automotive course or course fee of \$200 per automotive advanced course (AUT 260 and above)
- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification up to \$450 total for all eight areas of testing
- Cost of tools: \$1,500 to \$2,500 depending on the source

Program Preparation and Prerequisites

In preparation for taking advanced program (AUT) courses:

- High school diploma or GED (recommended)
- Students completing the Automotive Technology program may have to pass criminal history checks (CHC) and/or drug test and hold a valid Oregon driver's license as a condition of their employment.
- Students must take the following automotive basic skills courses (10 credits):

AUT 101	Basic Electricity for Automotive	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3

PROGRAM STANDARDS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher. Students who do not meet this standard may be dismissed from the program.

REGISTRATION INFORMATION

Program (AUT) courses begin every term, including summer. Expect to start with 10 credits of basic skills courses in addition to a required math or writing course. Some AUT courses offered each term must be taken together and sequentially. Full-time students are discouraged from working more than 15 hours each week due to a heavy course load.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

The Automotive Technology program is certified by the National Automotive Technicians Education Foundation (NATEF). This certification requires that students complete 1,080 hours of training, which applies toward the two-year minimum experience requirement for ASE Certification. A minimum of 288 hours of Cooperative Work Experience (CWE) is included in the training (recommended preparation for CWE is 24 credits of automotive courses in addition to the basic skills courses).

TRANSFER INFORMATION

This degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM REQUIREMENTS

AUTOMOTIVE MANAGEMENT

YEAR ONE

Fall term		
AUT 101	Basic Electricity for Automotive	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3
Human Relatio	ons course from approved list	3-4
WR 121	Academic Composition	4
Winter term		
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	5 2 2 2 4
AUT 105	Diesel Performance I	2
AUT 205	Engine Performance I	2
MTH 060	Algebra I	4
(or higher)		
Spring term		
AUT 104	Automotive Electric III	2
AUT 111	Computerized Engine Controls	5 2
AUT 206	Engine Performance II	2
BA 101	Introduction to Business	4
CIS 120	Computer Concepts	0-4
or Computer C	Competency Test	
Summer tern	n	
AUT 204	Steering and Suspension	3
AUT 216A*	Co-op Work Experience-Automotive	4
or AUT 216B*		
AUT 253	Automotive Air Conditioning	3
+ A	CALL COATES COATES	

* Automotive CWE may be taken after 24 credits of automotive courses in addition to the basic skills courses, including summer. Students may not enroll in CWE without first being cleared by an instructor. Exceptions are based on individual student goals.

AUTOMOTIVE TECHNOLOGY – AUTOMOTIVE MANAGEMENT (continued)

Associate of Applied Science (AAS) Degree 102-107 credits

YEAR TWO		
Fall term		
AUT 201	Automotive Engines	4
AUT 208	Automotive Brakes	3
BA 111	Applied Accounting I	3
BA 206	Management Fundamentals I	4
HHP 252A	Fitness/First Aid	3
Winter term		
AUT 202	Manual Drive Trains I	3
AUT 203	Manual Drive Trains II	3
AUT 251	Automatic Transmissions I	3
AUT 256	Automatic Transmissions II	2
BA 178	Customer Service	3
Spring term		
AUT 112	Basic Engine Performance I	1
AUT 113	Basic Engine Performance II	1
AUT 114	Welding for Automotive Trade	3
BA 223	Marketing Principles I	4
BA 280	Co-op Work Experience Business	3
BA 286	Managing Business Processes	4
or BA 250	Entrepreneurship	

AUTOMOTIVE TECHNOLOGY – ELECTRONICS AND DIAGNOSTICS – (OPTION)

98-102 credits

Heavy emphasis will be placed on the following three areas: Hybrid Electric Vehicles (HEV) /Electric Vehicles (EV), clean diesel and on-board vehicle networking. The title places emphasis on the ever-advancing electronics that are contained on all current vehicles, clearly stating the intent of the degree. This degree is an addition to our current Master Automotive Technician Certificate and Automotive Engine Performance Certificate with emphasis on the electrical/electronic portions of the automotive industry.

PROGRAM REQUIREMENTS

YEAR ONE

Fall term		
AUT 101	Basic Electricity for Automotive	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3 1 3 4
MTH 060	Algebra I	4
(or higher)		
Winter term		
AUT 102	Auto Electric I	5
AUT 103	Auto Electric II	5 2 2 2
AUT 104	Automotive Electric III	2
AUT 205	Engine Performance I	2
CIS 120	Computer Concepts	0-4
or Computer C	Competency Test	
Spring term		
AUT 111	Computerized Engine Controls	5
AUT 206	Engine Performance II	2
CIS 131	Software Applications	5 2 4 4
WR 121	Academic Composition	4
Summer tern	n	
AUT 105	Diesel Performance I	2
AUT 216A*	Co-op Work Experience	4
or AUT 216B*	•	
AUT 253	Automotive Air Conditioning	3

YEAR TWO Fall term First year program prerequisites met AUT 260 Diesel Performance II General Education Discipline Studies course 3 GS 104 Physical Science: Physics 4 MFG 100 MATC Orientation (MATC - Redmond) MFG 118 Fluid Power Systems I (MATC - Redmond) 2 Winter term **AUT 270** Automotive Controller Systems I 4 **AUT 280** Hybrid Electric Vehicle I (HEV) 4 General Education Discipline Studies course 3 Human Relations course 3 Spring term AUT 271 Automotive Controller Systems II 4 **AUT 281** Hybrid Electric Vehicle II (HEV) 4 BA 178 **Customer Service** 3 General Education Discipline Studies course 3 Health Class 3 Recommend: HHP 243 or HHP252A Summer term AUT 216A* Dealership CWE/Clean Diesel/Hybrid 4

50 _____ cocc.edu

or AUT 216B*

* Automotive CWE may be taken after 24 credits of automotive courses in addition to the basic skills courses, including summer. Students may not enroll in CWE without first being cleared by an instructor. Exceptions are based on individual student goals.

AUTOMOTIVE TECHNOLOGY

Short-Term Certificates 12-38 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Short-term Certificate of Completion in:

Automotive Basic Skills with Basic Engine Performance

Automotive Basic Skills with Welding

Automotive Controller Systems Technician - Level 1

Automotive Controller Systems Technician – Level 2

Automotive Drive-Train Technician Automotive Electrical Technician-Basic Automotive Electrical Technician-Advanced

Automotive Engine Technician

Automotive Engine Performance Technician

Automotive Heating & AC Technician

Automotive Hybrid Electric Vehicles (HEV) Technician – Level 1 Automotive Hybrid Electric Vehicles (HEV) Technician – Level 2

Clean Energy Diesel Technician-Advanced

Under-Car Technician

PROGRAM DESCRIPTION

The Automotive Technology program emphasizes educating students as multi-skilled workers with the ability to complete a wide variety of tasks within the automotive technology service and repair setting.

Coursework includes technical skills in computer applications, electrical, electronic, mechanical, hydraulic and network systems, both in theory as well as hands-on training. A self-paced method of instruction is offered for the entry-level classes. Communication skills are also highly emphasized throughout each program.

The program is planned so that students will be able to complete the Master Automotive Technician Certificate in approximately 12 to 15 months as well as earn up to seven short-term certificates of completion. The certificate enables students to enter the transportation industry as an automotive technician. Men and women who are changing jobs or careers, students who want to explore the possibility of a technician career, or those who simply want to know more about vehicles may enter the program each term. Entry into the program at the beginning of each term is possible by meeting course prerequisites or receiving the instructor's permission.

The Automotive Technology program is certified by the National Automotive Technicians Education Foundation (NATEF). The program is approved for veterans' training. Occupational supplementary courses with college credit may be offered in the evening. These classes are designed to meet community needs and will vary from one term to the next.

Students are expected to supply their own hand tools. A list is available from program instructors. Approximate cost of required tools and working clothes is \$1,700 to \$2,700. The College provides any needed specialized tools and equipment for use in courses.

It is recommended that the ASE (Automotive Service Excellence) certification test be taken as the student completes the program. Pre-testing for ASE Certification and ASE Test Prep courses will be made available.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

- Program fee of \$15 per required automotive course
- Materials: (coveralls, safety glasses, work jacket, safety shoes, t-shirts) \$200
- ASE (Automotive Service Excellence) Certification up to \$450 total for all eight areas of testing
- Cost of tools \$1,500 to \$2,500 depending on the source

PROGRAM PREPARATION AND PREREQUISITES

In preparation for taking advanced program (AUT) courses:

- High school diploma or GED (recommended)
- Students completing the Automotive Technology program may have to pass criminal history checks (CHC) and/or drug test and hold a valid Oregon driver's license as a condition of their employment.
- Students must take the following automotive basic skills classes first (10 credits):

AUT 101	Basic Electricity for Automotive	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3

PROGRAM STANDARDS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

Program (AUT) courses begin every term, including summer. Expect to start with ten credits of basic skills courses. Some AUT courses offered each term must be taken together and sequentially. Full-time students are discouraged from working more than 15 hours each week due to a heavy course load.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

The Automotive Technology program is certified by the National Automotive Technicians Education Foundation (NATEF). This certification requires that students complete 1,080 hours of training, which applies toward the two-year minimum experience requirement for ASE Certification. A minimum of 288 hours of Cooperative Work Experience (CWE) is included in the training.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

AUTOMOTIVE BASIC SKILLS WITH BASIC ENGINE PERFORMANCE

Short-Term Certificate - 12 credits

This certificate introduces the operation, diagnoses and repair of the carburetion system and the points ignition system. Green statement: As with all engine performance related subjects, fuel delivery in carburetors affects air quality. This class introduces the student to the skill of reducing hydrocarbon and carbon dioxide emissions.

AUT 101	Basic Electricity for Automotive	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3
AUT 112*	Basic Engine Performance I	1
AUT 113*	Basic Engine Performance II	1

^{*} course added to the basic skills to complete a certificate.

AUTOMOTIVE BASIC SKILLS WITH WELDING

Short-Term Certificate - 13 credits

These courses capture a range of skills that are required for the automotive industry, including basic internal combustion engines and theory, basic DC electrical and schematic understanding and vehicle inspection. The largest portion addresses shop and vehicle safety.

AUTOMOTIVE TECHNOLOGY (continued)

Short-Term Certificates 12-38 credits

Adding AUT 114 to the basic skills courses will provide a good understanding of the fundamental principles of automotive welding and offer a certificate.

AUT 101	Basic Electricity for Automotive	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3
AUT 114*	Welding for the Automotive Trade	3

^{*} course added to the basic skills to complete a certificate.

AUTOMOTIVE CONTROLLER SYSTEMS TECHNICIAN LEVEL 1

Short-Term Certificate - 34 credits

This program trains students to be the key troubleshooter in figuring out a vehicle's driveability problems. Students learn to identify everything from powertrain malfunctions to ignition failures and other engine-related problems using state-of-the-art computer diagnostic equipment, as well as the best way to fix the problem for the client. This coursework applies toward ASE certification in (A6) Automotive Electrical/Electronic Systems and (A8) Automotive Engine Performance.

This program also trains students on vehicle performance methods. The student will become confident with various methods of performance enhancements of automotive drive systems with major emphasis on electronic programing, manufacturer scan tools and vehicle testing.

CERTIFICATE REQUIREMENTS

AUT 101	Basic Electricity for Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	2 2 2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3
AUT 111	Computerized Engine Controls	
AUT 205	Engine Performance I	5 2 2
AUT 206	Engine Performance II	2
AUT 270	Automotive Controller Systems I	4

AUTOMOTIVE CONTROLLER SYSTEMS TECHNICIAN LEVEL 2

Short-Term Certificate - 38 credits

This program trains students to be the key troubleshooter in figuring out a vehicle's driveability problems. Students learn to identify everything from powertrain malfunctions to ignition failures and other engine-related problems using state-of-the-art computer diagnostic equipment, as well as the best way to fix the problem for the client. This coursework applies toward ASE certification in (A6) Automotive Electrical/Electronic Systems and (A8) Automotive Engine Performance.

This program also trains students in testing volumetric efficiency, performance as it relates to program modification, dynamometer operation and safety and reprograming for performance.

CERTIFICATE REQUIREMENTS

AUT 101	Basic Electricity for Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	2
AUT 105	Diesel Performance I	2

AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3
AUT 111	Computerized Engine Controls	5
AUT 205	Engine Performance I	2
AUT 206	Engine Performance II	2
AUT 270	Automotive Controller Systems I	4
AUT 271	Automotive Controller Systems II	4

AUTOMOTIVE DRIVE TRAIN TECHNICIAN

Short-Term Certificate - 21 credits

From drivelines to transaxles, clutches to differentials, COCC's Transmission Technology program trains students on all elements of manual and automatic transmissions, as well as basic hydraulic and electrical principles. The automotive drive-train courses apply toward ASE certification in (A2) Automotive Automatic Transmission and (A3) Automotive Manual Drive Trains and Axles.

AUT 101	Basic Electricity for Automotive	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3
AUT 202	Manual Drive Trains I	3
AUT 203	Manual Drive Trains II	3
AUT 251	Automatic Transmissions I	3
AUT 256	Automatic Transmissions II	2

AUTOMOTIVE ELECTRICAL TECHNICIAN (BASIC)

Short-Term Certificate - 15 credits

Preparation in the electrical technician coursework establishes skill in charging systems, starting systems, voltage drops, electrical troubleshooting, lighting, gauges, accessories, battery load testing and repairs. This coursework prepares students for the ASE certification in (A6) Electrical/Electronic Systems.

AUT 101	Basic Electricity for Automotive	2
AUT 102	Automotive Electric I	5
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3

AUTOMOTIVE ELECTRICAL TECHNICIAN (ADVANCED)

Short-Term Certificate - 19 credits

Preparation in the electrical technician coursework establishes skill in charging systems, starting systems, voltage drops, electrical troubleshooting, lighting, gauges, accessories, battery load testing and repairs. This coursework prepares students for ASE certification in (A6) Electrical/Electronic Systems and (A8) Engine Performance.

AUT 101	Basic Electricity for Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3

AUTOMOTIVE TECHNOLOGY (continued)

Short-Term Certificates 12-38 credits

AUTOMOTIVE ENGINE TECHNICIAN

Short-Term Certificate - 16 credits

This program trains students to rebuild an engine or start building one from scratch. This coursework applies toward ASE certification in (A1) Automotive Engine Repair.

AUT 101	Basic Electricity for Automotive	2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3
AUT 201	Automotive Engines	4

AUTOMOTIVE ENGINE PERFORMANCE TECHNICIAN

Short-Term Certificate - 28 credits

This program trains students to be the key troubleshooter in figuring out a vehicle's driveability problems. Students learn to identify everything from powertrain malfunctions to ignition failures and other engine-related problems using state-of-the-art computer diagnostic equipment, as well as the best way to fix the problem for the client. This coursework applies toward ASE certification in (A6) Automotive Electrical/Electronic Systems and (A8) Automotive Engine Performance.

AUT 101	Basic Electricity for Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3
AUT 111	Computerized Engine Controls	5
AUT 205	Engine Performance I	2
AUT 206	Engine Performance II	2

AUTOMOTIVE HEATING & AIR CONDITIONING TECHNICIAN

Short-Term Certificate - 18 credits

COCC's Automotive Heating and Air Conditioning classes give students a hands-on opportunity to learn about automotive air conditioning and heating systems, EPA Recovery Requirements for R-12, R-134a systems, and general diagnosis and service. Courses in this option apply toward ASE certification in (A7) Automotive Heating and Air Conditioning and (A6) Electrical/Electronic Systems.

AUT 101	Basic Electricity for Automotive	2
AUT 102	Automotive Electric I	5
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3
AUT 253	Automotive Air Conditioning	3

AUTOMOTIVE HYBRID ELECTRIC VEHICLES (HEV) TECHNICIAN – LEVEL 1

Short-Term Certificate - 34 credits

This program trains students to be the key troubleshooter in figuring out a vehicle's driveability problems. Students learn to identify everything from powertrain malfunctions to ignition failures and other engine-related

problems using state-of-the-art computer diagnostic equipment, as well as the best way to fix the problem for the client. This coursework applies toward ASE certification in (A6) Automotive Electrical/Electronic Systems and (A8) Automotive Engine Performance. The student will be introduced to hybrid (HEV) and electric (EV) vehicles to study and apply skills on diagnosing systems on an array of vehicles with electric drive systems.

AUT 101	Basic Electricity for Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	5 2 2 2
AUT 104	Automotive Electric III	2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3
AUT 111	Computerized Engine Controls	5
AUT 205	Engine Performance I	3 5 2 2
AUT 206	Engine Performance II	2
AUT 280	Hybrid Electric Vehicle I (HEV)	4

AUTOMOTIVE HYBRID ELECTRIC VEHICLES (HEV) TECHNICIAN – LEVEL 2

Short-Term Certificate - 38 credits

This program trains students to be the key troubleshooter in figuring out a vehicle's driveability problems. Students learn to identify everything from powertrain malfunctions to ignition failures and other engine-related problems using state-of-the-art computer diagnostic equipment, as well as the best way to fix the problem for the client. This coursework applies toward ASE certification in (A6) Automotive Electrical/Electronic Systems and (A8) Automotive Engine Performance. The student will become well grounded into the hybrid (HEV) and electric (EV) vehicles as it applies to the state of health of an array of vehicles with electric drive systems. The student will be able to experience extensive time with analysis of vehicles with electric drive systems.

AUT 101	Basic Electricity for Automotive	2
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	2
AUT 105	Diesel Performance I	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3
AUT 111	Computerized Engine Controls	5
AUT 205	Engine Performance I	3 5 2
AUT 206	Engine Performance II	2
AUT 280	Hybrid Electric Vehicle I (HEV)	4
AUT 281	Hybrid Electric Vehicle II (HEV)	4

CLEAN ENERGY DIESEL TECHNICIAN (ADVANCED)

Short-Term Certificate - 34 credits

This program trains students to be the key troubleshooter in figuring out a vehicle's driveability problems. Students learn to identify everything from powertrain malfunctions to ignition failures and other engine-related problems using state-of-the-art computer diagnostic equipment, as well as the best way to fix the problem for the client. This coursework applies toward ASE certification in (A6) Automotive Electrical/Electronic Systems and (A8) Automotive Engine Performance.

This program also trains students on the operational principles and theory of Hydraulically actuated Electronically controlled Unit Injection (HEUI)

AUTOMOTIVE TECHNOLOGY (continued) Short-Term Certificates

Short-Term Certificates 12-38 credits

systems, the Electronic Unit Injection (EUI) systems and the Common Rail (CR) systems, as they are applied to Diesel Engine Performance (A9).

AUT 101	Basic Electricity for Automotive	2	2
AUT 102	Automotive Electric I	5	5
AUT 103	Automotive Electric II	2	2
AUT 104	Automotive Electric III	2	2
AUT 105	Diesel Performance I	2	2
AUT 106	Automotive Program Orientation	1	l
AUT 107	Mechanical Systems I	3	3
AUT 109	Mechanical Systems II]	l
AUT 110	Small Gas Engines	3	3
AUT 111	Computerized Engine Controls	5	5
AUT 205	Engine Performance I	2	2
AUT 206	Engine Performance II	2	2
AUT 260	Diesel Performance II	4	4

UNDER-CAR TECHNICIAN

Short-Term Certificate - 16 credits

This hands-on, short-term training gives students an in-depth understanding of under-vehicle systems: brakes, suspension, driveline and electrical, and prepares students for a job in suspension and brakes, either as a technician or manager. The under-car technician courses apply toward ASE certification in (A5) Automotive Brakes and (A4) Automotive Steering and Suspension.

AUT 101 Basic Electricity for Automotive	2
AOT TOT Busic Electricity for Automotive	_
AUT 106 Automotive Program Orientation	1
AUT 107 Mechanical Systems I	3
AUT 109 Mechanical Systems II	1
AUT 110 Small Gas Engines	3
AUT 204 Steering and Suspension	3
AUT 208 Automotive Brakes	3





AUTOMOTIVE TECHNOLOGY – MASTER AUTOMOTIVE TECHNICIAN

Certificate of Completion 75-78 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Master Automotive Technician

PROGRAM DESCRIPTION

The Master Automotive Technician program emphasizes educating students as multi-skilled workers with the ability to complete a wide variety of tasks within the automotive technology service and repair setting.

Coursework includes technical skills in computer applications, electrical, electronic, mechanical, hydraulic and network systems, both in theory as well as hands-on training. A self-paced method of instruction is offered for the entry-level classes. Communication skills are also highly emphasized throughout the program.

The program is planned so that students will be able to complete the Master Automotive Technician Certificate in approximately 12 to 15 months as well as earn up to seven short-term certificates of completion. The certificate enables students to enter the transportation industry as an automotive technician. Men and women who are changing jobs or careers, students who want to explore the possibility of a technician career, or those who simply want to know more about vehicles may enter the program each term. Entry into the program at the beginning of each term is possible by meeting course prerequisites or receiving the instructor's permission.

The Automotive Technology program is certified by the National Automotive Technicians Education Foundation (NATEF). The program is approved for veterans' training. Occupational supplementary courses with college credit may be offered in the evening. These classes are designed to meet community needs and will vary from one term to the next.

Students are expected to supply their own hand tools. A list is available from program instructors. Approximate cost of required tools and working clothes is \$1,700 to \$2,700. The College provides any needed specialized tools and equipment for use in courses.

It is recommended that the ASE (Automotive Service Excellence) certification test be taken as the student completes the program. Pre-testing for ASE Certification and ASE Test Prep courses will be made available.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

- Program fee of \$15 per required automotive course
- Materials (coveralls, safety glasses, work jacket, safety shoes, t-shirts): \$200
- ASE (Automotive Service Excellence) Certification up to \$450 total for all eight areas of testing
- Cost of tools \$1,500 to \$2,500 depending on the source

PROGRAM PREPARATION AND PREREQUISITES

In preparation for taking advanced program (AUT) courses:

- High school diploma or GED (recommended)
- Students completing the Automotive Technology program may have to pass criminal history checks (CHC) and/or drug test and hold a valid Oregon driver's license as a condition of their employment.
- Students must take the following automotive basic skills classes first (10 credits):

AUT 101	Basic Electricity for Automotive	2
AUT 106	Automotive Program Orientation	1
AUT 107	Mechanical Systems I	3
AUT 109	Mechanical Systems II	1
AUT 110	Small Gas Engines	3

REGISTRATION INFORMATION

Program (AUT) courses begin every term, including summer. Expect to start with ten credits of basic skills courses in addition to a required math or writing course. Some AUT courses offered each term must be taken together and sequentially. Full-time students are discouraged from working more than 15 hours each week due to a heavy course load.

PROGRAM STANDARDS

Students must maintain a minimum $2.0~\mbox{GPA}$ while enrolled in the program (AUT).

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

The Automotive Technology program is certified by the National Automotive Technicians Education Foundation (NATEF). This certification requires that students complete 1,080 hours of training, which applies toward the two-year minimum experience requirement for ASE Certification. A minimum of 288 hours of Cooperative Work Experience (CWE) is included in the training.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM COURSE REQUIREMENTS

General Education/Foundational Requirements

Communication

WR 060 (or higher)	Rhetoric and Critical Thinking I	4
Mathematic MTH 060 (or higher)	c s Algebra I	4
Human Rel	ations	
Human Relat	ions approved course	3-4
PROGRAM	REQUIREMENTS	
	pasic skills (required prior to any other AUT classes)	10
AUT 102	Automotive Electric I	5
AUT 103	Automotive Electric II	2
AUT 104	Automotive Electric III	2
AUT 105	Diesel Performance I	2
AUT 111	Computerized Engine Controls	5
AUT 201	Automotive Engines	4
AUT 202	Manual Drive Trains I	3
AUT 203	Manual Drive Trains II	3
AUT 204	Steering and Suspension	3
AUT 205	Engine Performance I	2
AUT 206	Engine Performance II	2
AUT 208	Automotive Brakes	3
AUT 216A*		
and AUT 216	6B Co-op Work Experience-Automotive	8
AUT 251	Automatic Transmissions I	3
AUT 253	Automotive Air Conditioning	3
AUT 256	Automatic Transmissions II	2
	nded preparation for CWE is 24 credits of automotive addition to the basic skills courses.	

ELECTIVES (must take two courses)

AUT 112	Basic Engine Performance I	1
AUT 113	Basic Engine Performance II	1
AUT 114	Welding for the Automotive Trade	3
AUT 211	ASE Test Prep I	1
AUT 212	ASE Test Prep II	1

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AVIATION PROGRAM

PREREQUISITES, STANDARDS AND REQUIREMENTS

PROGRAM DESCRIPTION

The Aviation program trains individuals to work as professional pilots in the air transportation industry. The opportunities in the pilot career field are fascinating and many, and include piloting a commercial airliner, flying for a corporation providing a service to the leaders of the company, flying as a charter pilot taking passengers point-to-point, providing flight instruction to new pilot students and operating autonomous aerial vehicles.

Students in the AAS Aviation degree program must earn Federal Aviation Administration (FAA) pilot certificates and ratings which require flight and simulator training as outlined below. Students in the airplane track will earn FAA Private Pilot and Commercial Pilot certificates (single and multiengine), the Instrument rating and the Multiengine rating. The final step in the training is to earn the FAA Certified Flight Instructor certificate/ratings (CFI, CFII, MEI).

Students in the helicopter track will earn the FAA Private Pilot and Commercial Pilot certificates, the Instrument rating and Certified Flight Instructor certificate/rating (CFI, CFII).

Additionally, an Unmanned Aerial Systems degree is available within the Aviation Program. The Aviation Unmanned Aerial Systems
Operations (UAS) track trains individuals to work as professional UAS operators in the national/international arena. Students will learn to operate UAS to include: conducting mission/preflight planning, mission briefings and programming. They will learn how to obtain and evaluate weather forecasts, Notice to Airmen (NOTAMs), Special Instructions (SPINs) and airspace requirements. Students will be taught to perform limited UAS and ground support equipment testing, troubleshooting and maintenance.

The AAS degree will only be awarded when the required courses have been successfully completed and the following certificates and ratings are obtained: Commercial Pilot certificate and Instrument and Multiengine (airplane) ratings.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following program costs:

- See detailed cost information in Flight Lab Authorized Aircraft and Hourly Rates, including FAA Airman Knowledge Exam and FAA Designated Pilot Examiner fees.
- Students who have failed to achieve the required certifications in the time covered by the flight fees charged may incur additional flight training fees.
- All fees for the term must be paid in full by 5 p.m. on Friday of the second week of the term.
- Unless under unusual, nonacademic and documented circumstances simulator fees are non-refundable.
- Used portions of flight fees are non-refundable.
- Pilot headset, approximately \$350.

Airplane

 FAA Designated Pilot Examiner fees, approximately \$400 per flight certificate/rating (\$2,800).

Helicopter

 FAA Designated Pilot Examiner fees, approximately \$750 per flight certificate/rating (\$3,750).

PROGRAM PREPARATION AND PREREQUISITES

Pilots are credentialed by the FAA based on Title 14 Code of Federal Regulations. Specific requirements for each pilot certificate/rating are listed in Part 61: Certification: Pilots and Instructors and may be found in a current copy of the Federal Aviation Regulations/Aeronautical Information Manual (FAR/AIM), or online at faa.gov.

Pilots are required to meet specific medical requirements and must possess an appropriate class of medical certificate obtained from an FAA-approved Aviation Medical Examiner (AME) before exercising the privileges of a pilot in command for the level of pilot certificate required. Specific requirements for class and duration of medical certificates may be found in the FAR Part 61, Paragraph 61.23, or online at faa.gov.

Students who enroll in this course of study must have a valid FAA Medical Certificate and a student pilot certificate. The medical exam must be conducted by a doctor designated by the FAA as an Aviation Medical Examiner. Incoming students in the professional pilot program are encouraged to obtain at least a second-class medical certificate prior to entry into the program to ensure that they can eventually pursue a career in commercial aviation. The medical application form will ask the applicant's prior medical history, prior DUI/DUII, any record of alcohol or substance abuse and any history of non-traffic misdemeanors or felonies.

MINIMUM GPA OR GRADE REQUIREMENTS

- All FAA airman knowledge exams must be passed with a minimum score of 70 percent.
- All aviation program courses must be completed with a "C" grade or better.
- Graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

The Aviation program accepts new students every term. Applicants should contact the Aviation program director, 541.318.3702, or another aviation advisor before applying.

Applicants must arrange their finances to ensure they can pay for the flight training. Financial aid is available, but it will not cover the total cost of the program. The Aviation program is approved for veterans benefits and other federal financial aid.

PROGRAM STANDARDS

Students must maintain a minimum 2.0 GPA while enrolled in the program. Students who do not maintain this standard may be dismissed from the program. Reinstatement to the program is never automatic. A student must apply for re-determination of eligibility by completing a training plan with their COCC advisor.

Students must be prepared to fly three to four days per week in order to maintain the rigorous schedule that is required in order to complete the flight training in a timely manner. Students who fall behind without justifiable reasons may be dismissed from the program and their flight training fees will be returned to whomever paid the fees, i.e., the Financial Aid office, the Department of Veterans Affairs or the individual (for private-pay students). Students using veterans benefits who fail to complete a flight lab may be required to repay the Department of Veterans Affairs for the entire cost of the course.

AVIATION PROGRAM (continued)

PREREQUISITES, STANDARDS AND REQUIREMENTS

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

- Pilots are credentialed by the Federal Aviation Administration (FAA) and must meet the requirements of the Federal Aviation Regulations to qualify for the pilot certificates/ratings.
- FAA medical certificate required prior to beginning flight training.
- Student Pilot certificate required prior to beginning flight training.
- The FAA requires applicants pass an airman knowledge exam for pilot certificates/ratings. Those exams are administered by a third-party company and a \$150 testing fee is required.
- Pilot certificates/ratings are issued after an applicant passes a practical exam (ground oral exam and flight check) administered by a Designated Pilot Examiner (DPE) who will charge a fee for that exam.
- Background checks and random drug screening can be expected in any aviation industry position.

PILOT CERTIFICATES/RATINGS AVAILABLE:

- Private Pilot (Airplane or Helicopter)
- Instrument (Airplane or Helicopter)
- Commercial (Airplane or Helicopter)
- Commercial Multiengine (Airplane)
- CFI (Airplane or Helicopter)
- CFII (Airplane or Helicopter)
- MEI (Airplane)
- Air Transport Pilot (ATP) (Not currently offered at COCC)

TRANSFER INFORMATION

Airplane students in particular should plan to transfer to an institution granting bachelor's degrees to enhance employment opportunities. Therefore, the program works with several universities for transfer options. The AAS degree is designed to train the student as a professional pilot. Universities that have an aviation bachelor's degree (Eastern Kentucky University, Embry-Riddle Aeronautical University, etc.) will often accept the majority of these credits toward their degree.

Those wishing to transfer to Oregon Institute of Technology, should use the Associate of Science (AS) degree program. For information about transfer requirements at other institutions, contact the Aviation program director, 541.318.3702.







AVIATION, PROFESSIONAL PILOT – AIRPLANE

Associate of Applied Science (AAS) Degree 90-95 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Aviation - Airplane

PROGRAM COURSE REQUIREMENTS

General Education/Foundational Requirements

Communication

BA 206

or BA 101

WR 121	Academic Composition	4
Mathematic MTH 085 or MTH 111 (or higher)	Technical Mathematics I College Algebra	4
Human Relo SP 111 or SP 218 or SP 219	ations Fundamentals of Public Speaking Interpersonal Communication Small Group Communication	3-4
Computer S CIS 120 or Computer (kills Computer Concepts Competency Test	0-4
Business		

Management Fundamentals I

Introduction to Business

General Educ	cation Discipline Studies courses	8
Program Re	equirements	
All Aviation c	ourses must be completed with a "C" grade or better.	
AV 101	Introduction to Aviation ¹	3
AV 104	Introduction to Aircraft Systems ¹	4
AV 108	Meteorology I ¹	4
AV 110	Private Pilot-Airplane ²	5
AV 112	Technically Advanced Aircraft	1
AV 112A	Technically Advanced Aircraft Lab	1
AV 150	Aerodynamics ¹	4
AV 200	Aviation Law ¹	3
or AV 201	Airport Management ¹	
AV 204	Advanced Aircraft Systems ¹	4
AV 208	Meteorology II ¹	4
AV 210	Instrument-Airplane ⁴	5
AV 220	Commercial Pilot-Airplane ⁴	4
AV 230	Multiengine Pilot⁴	2
AV 235	Human Factors ¹	4
AV 246	Aviation Safety ¹	3
AV 250	Certified Flight Instructor Ground	5
AIDDI ANE	ELICHT LARS	

AV 230	Certified Filght Instructor Ground	J
AIRPLANE	FLIGHT LABS	
Select 11 cr	edits from the following list.	11
(See Aviatio	n advisor for individual recommendations.)	
AV 222A	Airplane Flight Lab ^{3,5}	
AV 222B	Airplane Flight Lab ^{3,5}	
AV 222C	Airplane Flight Lab ^{3,5}	
AV 222D	Airplane Flight Lab ^{3,5}	
AV 222E	Airplane Flight Lab ^{3,5}	
AV 222F	Airplane Flight Lab ^{3,5}	
AV 222G	Airplane Flight Lab ^{3,5}	
AV 222H	Airplane Flight Lab ^{3,5}	
AV 222I	Airplane Flight Lab ^{3,5}	
AV 222J	Airplane Flight Lab ^{3,5}	
AV 222K	Airplane Flight Lab ^{3,5}	
AV 222M	Airplane Flight Lab ^{3,5}	

FOOTNOTES

- ¹ May be taken in any order, in any term and may be taken before, with or after the flight courses.
- ² Must be taken as the first flight course. May be taken any term.
- ³ Flight fees, simulator fees and FAA testing fees are required in addition to normal tuition for all flight labs and must be paid by the end of the second week of the term. Used portions of flight fees are not refundable. The fee structure is available on the Aviation website, cocc.edu/aviation. Contact the Aviation program director, 541.318.3702, for more information.
- ⁴ Can be taken next in any sequence, together or separately, in any term. Earning the commercial pilot certificate is not dependent upon the instrument and multiengine ratings; however, pilots commonly include those ratings inside the total hours required for the commercial certificate in order to reduce the cost.
- ⁵ Airplane students will take 11 credits of AV 222, Airplane Flight Labs. The labs can be taken in any term. See Aviation advisor for scheduling sequence.

FLIGHT LABS

4

Professional Pilot degrees require completion of the associated flight labs to attain the credits necessary for graduation. The completion of the associated flight labs will also ensure compliance with Federal Aviation Administration flight hour and certification requirements. Professional Pilot students will be prepared to become certified flight instructors with instrument (CFII).

Flight labs may not directly correlate to the associated lecture course due to the constraints of weather and aircraft maintenance.

Authorized Aircraft and Hourly Rates: Airplane Aircraft: C-172, C-182, Seminole, Bonanza, Baron, Decathlon, FTD

AV222A, Airplane Flight Lab

Cessna 172

16 hrs. Ground @ \$35 = \$560 20 hrs. Dual Flight @ \$200 = \$4,000 2.25 hrs. Dual FTD @ \$90 = \$202.50 Total: \$4,762.50

AV222B, Airplane Flight Lab

Cessna 172

14 hrs. Ground @ \$35 = \$490 15 hrs. Dual Flight @ \$200 = \$3,000 5 hrs. Solo Flight @ \$165=\$825 3 hrs. Dual FTD @ \$90 = \$270 Written Exam: \$160 DPE Fee: \$450 Total: \$5,195.00

AV222C, Airplane Flight Lab

Cessna 172

11 hrs. Ground @ \$35 = \$385 10 hrs. Dual Flight @ \$200 = \$2,000 10 hrs. Solo Flight @ \$165=\$1,650 Total: \$4,035.00

AV222D, Airplane Flight Lab

Cessna 172

13 hrs. Ground @ \$35 = \$455 24 hrs. Dual Flight @ \$200 = \$4,800 10 hrs. Dual FTD @ \$90 = \$900 Written Exam: \$160 DPE Fee: \$450

Total: \$6,765.00

AVIATION, PROFESSIONAL PILOT - AIRPLANE (continued)

Associate of Applied Science (AAS) Degree 90-95 credits

AV222E, Airplane Flight Lab Cessna 172

13 hrs. Ground @ \$35 = \$455 24 hrs. Dual Flight @ \$200 = \$4,800 12 hrs. Dual FTD @ \$90 = \$1,080 Total: \$6,335.00

AV222F, Airplane Flight Lab Cessna 172

12 hrs. Ground @ \$35 = \$420 28 hrs. Dual Flight @ \$200 = \$5,600 25 hrs. Solo Flight @ \$165=\$4,125 12 hrs. Dual FTD @ \$90 = \$1,080 Total: \$11,225.00

AV222G, Airplane Flight Lab Cessna 172, Cessna 182, Bonanza

22 hrs. Ground @ \$35 = \$770
19 hrs. Dual Flight @ \$200 = \$3,800
25 hrs, Dual Flight @ \$260 = \$6,500
34 hrs. Solo Flight @ \$165 = \$5,610
12 hrs. Dual FTD @ \$90 = \$1,080
Written Exam: \$160
DPE Fee: \$450
Total: \$18,370.00

AV222M, Airplane Flight Lab Decathlon

14 hrs. Ground @ \$35 = \$490 9 hrs. Dual Flight @ \$545.56 = \$4,910 Total: \$5400.00

AV222I, Airplane Flight Lab Cessna 182, Bonanza

22 hrs. Ground @ \$35 = \$770 38 hrs, Dual Flight @ \$260=\$9,880 Written Exam: \$320 DPE Fee: \$650 Total: \$11,620.00

AV222J, Airplane Flight Lab Cessna 172

12 hrs. Ground @ \$35 = \$420 15 hrs. Dual Flight @ \$200 = \$3,000

6 hrs. Dual FTD @ \$90 = \$540 Written Exam: \$160 DPE Fee: \$450 Total: \$4,570.00

AV222K, Airplane Flight Lab

Baron, Seminole

10 hrs. Ground @ \$35 = \$350 20 hrs. Dual Flight @ \$385 = \$7,700 DPE Fee: \$450 Total: \$8,500.00

AV222H, Airplane Flight Lab

Baron, Seminole

16 hrs. Ground @ \$35 = \$560 22 hrs. Dual Flight @ \$385 = \$8,470 2 hrs. Dual FTD @ \$90 = \$180

DPE Fee: \$450 Total: \$9,660.00





AVIATION, PROFESSIONAL PILOT – HELICOPTER

Associate of Applied Science (AAS) Degree 91-96 credits

DEGREE AS AWARDED ON TRANSCRIPT Associate of Applied Science, Aviation – Helicopter					
PROGRAM	PROGRAM COURSE REQUIREMENTS				
General Edu	ucation/Foundational Requirements				
Communico WR 121	ation Academic Composition	4			
Mathematic MTH 085 or MTH 111 (or higher)	Technical Mathematics I College Algebra	4			
Human Rela SP 111 or SP 218 or SP 219	ations Fundamentals of Public Speaking Interpersonal Communication Small Group Communication	3-4			
Computer S CIS 120 or Computer	kills Computer Concepts Competency Test	0-4			
Business BA 206 or BA 101	Management Fundamentals I Introduction to Business	4			
General Educ	cation Discipline Studies courses	8			

PROGRAM REQUIREMENTS

All Aviation courses must be completed with a "C" grade or better.

Helicopter AAS

AV 101	Introduction to Aviation ¹	3
AV 104	Introduction to Aircraft Systems ¹	4
AV 108	Meteorology I ¹	4
AV 112	Technically Advanced Aircraft	1
AV 112A	Technically Advanced Aircraft Lab	1
AV 115	Private Pilot-Helicopter ²	5
AV 117	Helicopter Fundamentals	1 5 3 4
AV 150	Aerodynamics ¹	4
AV 200	Aviation Law ¹	3
or AV 201	Airport Management ¹	
AV 208	Meteorology II ¹	4
AV 215	Instrument-Helicopter ⁴	5
AV 225	Commercial Pilot-Helicopter ⁴	4
AV 235	Human Factors ¹	4
AV 245	Advanced Helicopter Operations	4
AV 246	Aviation Safety ¹	4 4 3 5
AV 255	Certified Flight Instructor-Helicopter ¹	5

HELICOPTER FLIGHT LABS

Choose Series I or Series II

Choose Series I or Series II			
Series I			
AV 227A	Helicopter Flight Lab ³		
AV 227B	Helicopter Flight Lab ³		
AV 227C	Helicopter Flight Lab ³		
AV 227D	Helicopter Flight Lab ³		
AV 227E	Helicopter Flight Lab ³		
AV 227F	Helicopter Flight Lab ³		
AV 227G	Helicopter Flight Lab ³		
AV 227H	Helicopter Flight Lab ³		
AV 227I	Helicopter Flight Lab ³		
AV 227J	Helicopter Flight Lab ³		
AV 227N	Helicopter Flight Lab ³		
Series II			
AV 228A	Helicopter Flight Lab ³		
AV 228B	Helicopter Flight Lab ³		
AV 228C	Helicopter Flight Lab ³		

AV 228D	Helicopter Flight Lab ³	1
AV 228E	Helicopter Flight Lab ³	1
AV 228F	Helicopter Flight Lab ³	1
AV 228G	Helicopter Flight Lab ³	1
AV 228H	Helicopter Flight Lab ³	1
AV 228I	Helicopter Flight Lab³	1
AV 228J	Helicopter Flight Lab ³	1
AV 228N	Helicopter Flight Lab ³	1

FOOTNOTES

- ¹ May be taken in any order, in any term and may be taken before, with or after the flight courses.
- ² Must be taken as the first flight course. May be taken any term.
- ³ Flight fees, simulator fees and FAA testing fees are required in addition to normal tuition for all flight labs and must be paid by the end of the second week of the term. Used portions of flight and simulator fees are not refundable. Contact the Aviation program director at 541.318.3702 for more information.
- ⁴ Can be taken next in any sequence, together or separately, in any term.

FLIGHT LABS

Professional Pilot degrees require completion of the associated flight labs to attain the credits necessary for graduation. The completion of the associated flight labs will also ensure compliance with Federal Aviation Administration flight hour and certification requirements. Professional Pilot students will be prepared to become certified flight instructors with instrument (CFII).

Flight labs may not directly correlate to the associated lecture course due to the constraints of weather and aircraft maintenance.

Authorized Aircraft and Hourly Rates: Helicopter Series I Series II

Series I Aircraft: Robinson R22, R44, B206, FTD

AV 227A, Helicopter Flight Lab Robinson R22

15 hrs. Ground @ \$35 = \$525 24 hrs. Dual Flight @ \$360 = \$8,640 3 hrs. Dual FTD @ \$195 = \$585 Total: \$9,750.00

AV 227B, Helicopter Flight Lab Robinson R22

16 hrs. Ground @ \$35 = \$560 24 hrs. Dual Flight @ \$360 = \$8,640 2 hrs. Dual FTD @ \$195 = \$390 Total: \$9,590.00

AV 227C, Helicopter Flight Lab Robinson R22

16 hrs. Ground @ \$35 = \$560 24 hrs. Dual Flight @ \$360 = \$8,640 2 hrs. Dual FTD @ \$195 = \$390 Written Exam Fee: \$160 DPE Fee: \$750 Total: \$10,500.00

AV 227D, Helicopter Flight Lab Robinson R44

20 hrs. Ground @ \$35 = \$700 20 hrs. Dual Flight @ \$650 = \$13,000 10 hrs. Dual FTD @ \$195 = \$1,950 Total: \$15,650.00

AV 228A, Helicopter Flight Lab

Aircraft: Robinson

R44, B206, FTD

Robinson R44

15 hrs. Ground @ \$35 = \$525 24 hrs. Dual Flight @ \$650 = \$15,600 3 hrs. Dual FTD @ \$195 = \$585 Total: \$16,710.00

AV 228B, Helicopter Flight Lab Robinson R44

16 hrs. Ground @ \$35 = \$560 24 hrs. Dual Flight @ \$650 = \$15,600 2 hrs. Dual FTD @ \$195 = \$390 Total: \$16,550.00

AV 228C, Helicopter Flight Lab Robinson R44

16 hrs. Ground @ \$35 = \$560 24 hrs. Dual Flight @ \$650 = \$15,600 2 hrs. Dual FTD @ \$195 = \$390 Written Exam Fee: \$160 DPE Fee: \$750 Total: \$17,460.00

AV 228D, Helicopter Flight Lab Robinson R44

20 hrs. Ground @ \$35 = \$700 20 hrs. Dual Flight @ \$650 = \$13,000 10 hrs. Dual FTD @ \$195 = \$1,950 Total: \$15.650.00

AVIATION, PROFESSIONAL PILOT - HELICOPTER (continued)

Associate of Applied Science (AAS) Degree 91-96 credits

AV 227E, Helicopter Flight Lab Robinson R44

25 hrs. Ground @ \$35 = \$875 15 hrs. Dual Flight @ \$650 = \$9,750 10 hrs. Dual FTD @ \$195 = \$1,950 Written Exam Fee: \$160 DPE Fee: \$750 Total: \$13,485.00

AV 227F, Helicopter Flight Lab Robinson R22

18 hrs. Ground @ \$35 = \$630 35 hrs. Dual Flight @ \$360 = \$12,600 2 hrs. Dual FTD @ \$195 = \$390 Total: \$13,620.00

AV 227G, Helicopter Flight Lab Robinson R22

18 hrs. Ground @ \$35 = \$630 35 hrs. Dual Flight @ \$360 = \$12,600 2 hrs. Dual FTD @ \$195 = \$390 Written Exam Fee: \$160 DPE Fee: \$750 Total: \$14,530.00

AV 227I, Helicopter Flight Lab Robinson R22

53 hrs. Ground @ \$35 = \$1,855 20 hrs. Dual Flight @ \$360 = \$7,200 2 hrs. Dual FTD @ \$195 = \$390 Written Exam Fee: \$320 DPE Fee: \$850 Total: \$10,615.00

AV 227J, Helicopter Flight Lab Robinson R44

25 hrs. Ground @ \$35 = \$875 10 hrs. Dual Flight @ \$650 = \$6,500 5 hrs. Dual FTD @ \$195 = \$975 Written Exam Fee: \$160 DPE Fee: \$750 Total: \$9,260.00

AV 227H, Helicopter Flight Lab Bell 206

12 hrs. Ground @ \$35 = \$420 20 hrs. Dual Flight @ \$935 = \$18,700 Total: \$19,120.00

AV 227N, Helicopter Flight Lab Robinson R44

10 hrs. Ground @ \$35 = \$350 10 hrs. Dual Flight @ \$760 = \$7,600 NVG Fee: \$500 Total: \$8,450.00

AV 228E, Helicopter Flight Lab Robinson R44

25 hrs. Ground @ \$35 = \$875 15 hrs. Dual Flight @ \$650 = \$9,750 10 hrs. Dual FTD @ \$195 = \$1,950 Written Exam Fee: \$160 DPE Fee: \$750

AV 228F, Helicopter Flight Lab Robinson R44

Total: \$13,485.00

18 hrs. Ground @ \$35 = \$630 35 hrs. Dual Flight @ \$650 = \$22,750 2 hrs. Dual FTD @ \$195 = \$390 Total: \$23,770.00

AV 228G, Helicopter Flight Lab Robinson R44

18 hrs. Ground @ \$35 = \$630 35 hrs. Dual Flight @ \$650 = \$22,750 2 hrs. Dual FTD @ \$195 = \$390 Written Exam Fee: \$160 DPE Fee: \$750 Total: \$24,680.00

AV 228I, Helicopter Flight Lab Robinson R44

53 hrs. Ground @ \$35 = \$1,855 20 hrs. Dual Flight @ \$650 = \$13,000 2 hrs. Dual FTD @ \$195 = \$390 Written Exam Fee: \$320 DPE Fee: \$850 Total: \$16,415.00

AV 228J, Helicopter Flight Lab Robinson R44

25 hrs. Ground @ \$35 = \$875 10 hrs. Dual Flight @ \$650 = \$6,500 5 hrs. Dual FTD @ \$195 = \$975 Written Exam Fee: \$160 DPE Fee: \$750 Total: \$9,260.00

AV 228H, Helicopter Flight Lab Bell 206

12 hrs. Ground @ \$35 = \$420 20 hrs. Dual Flight @ \$935 = \$18,700 Total: \$19,120.00

AV 228N, Helicopter Flight Lab Robinson R44

10 hrs. Ground @ \$35 = \$350 10 hrs. Dual Flight @ \$760 = \$7,600 NVG Fee: \$500

Total: \$8,450.00





cocc.edu -

AVIATION – UAS OPERATIONSAssociate of Applied Science (AAS) Degree

94-98 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Aviation – UAS

The Unmanned Aerial Systems degree is intended to prepare students for a fast growing industry with many civilian applications including agriculture, search and rescue, monitoring environment and wildlife, border security, fire mapping, surveying structures after natural disasters, real estate photography and police surveillance.

PROGRAM COURSE REQUIREMENTS

All courses must be completed with a "C" grade or better.

OTHER COURSE REQUIREMENTS

Communication

Communico	ITION	
WR 121	Academic Composition	4
Mathematic MTH 085 or MTH 111 (or higher)	Technical Mathematics College Algebra	4
Computer S CIS 120 or Computer	kills Computer Concepts Competency Test	0-4
Human Rele	ations	
BA 206	Management Fundamentals I	4
PROGRAM	CORE REQUIREMENTS	
AV 104	Introduction to Aircraft Systems ¹	4
AV 108	Meteorology I ¹	4
AV 110	Private Pilot Airplane	5
or AV 115	Private Pilot Helicopter	

AV 104	Introduction to Aircraft Systems	4
AV 108	Meteorology I ¹	4
AV 110	Private Pilot Airplane	5
or AV 115	Private Pilot Helicopter	
AV 150	Aerodynamics ¹	4
AV 271	Introduction to UAS	4
AV 272	Unmanned Aerial Systems Operations	5
AV 273	Unmanned Aerial Systems Operations/ Maintenance	5
CIS 140	A+ Essentials I	4
CIS 145	A+ Essentials II	4
GEOG 211	Computer Cartography	4
GEOG 265	Geographic Information Systems	4
GEOG 266	ARC GIS	5
GEOG 267	Geodatabase Design	5
GEOG 273	Spatial Data Collection	5
GEOG 275	Capstone	5
GEOG 285	Data Conversion and Documentation	5
GEOG 286	Remote Sensing	5
GEOG 287	Analysis of Spatial Data	5

FOOTNOTES





¹ May be taken any term.

AVIATION / TECHNOLOGY AND MANAGEMENT

Associate of Science - Preparation for Transfer to Oregon Institute of Technology 90 credits

This degree is intended to prepare students who complete COCC's Associate of Applied Science (AAS) in Aviation degree, or other technical degree, to continue on to Oregon Institute of Technology's Bachelor of Applied Science (BAS) in Technology and Management degree in order to promote career advancement into management or the aviation field. The BAS degree allows students to transfer 60 credits of career and technical education courses, in addition to the listed business, management, information technology and general education courses. This Associate of Science (AS) degree worksheet reflects the required courses at the lower division level beyond the AAS aviation courses. Students are encouraged to work closely with their COCC advisor to complete both the AAS and the AS degree.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

All courses must be completed with a "C" grade or better.

Writing WR 121 Academic Composition 4 WR 122 Argument, Research and Multimodal Composition 4 WR 227 Technical Writing 4 Oral Communication SP 111 Fundamentals of Public Speaking 4 Mathematics MTH 111 College Algebra 4

GENERAL EDUCATION/DISCIPLINE STUDIES

Arts and Letters

Choose two (2) courses from the Discipline Studies list		0-8
Social Scie	ence	
EC 201	Microeconomics	4
EC 202	Macroeconomics	4

Science/Math/Computer Science

Choose one (1) lab science course from the Discipline Studies list

AVIATION PROGRAM REQUIREMENTS

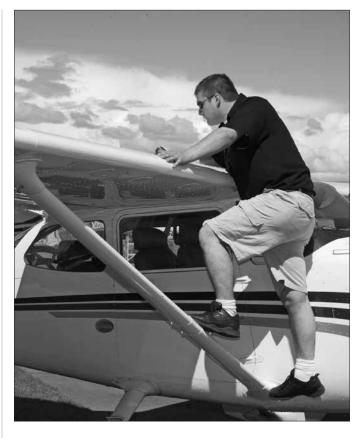
AV 108	Meteorology I	4
AV 208	Meteorology II	4
BA 206	Management Fundamentals I	4
BA 211	Financial Accounting I	4
BA 213	Managerial Accounting 1	4
BA 223	Marketing Principals I	4
BA 226	Business Law I	4
CIS 125A	Access	4
CIS 125E	Excel	4

ELECTIVES

Choose enough electives to reach a minimum total of 90 overall degree credits. Elective credits must be 100-level and above with a maximum of 12 CTE credits and 15 credits of CWE/HHP performance courses. Oregon Institute of Technology's BAS degree assumes that the student has completed 60 CTE credits to apply toward the degree.

ADVISING NOTES

¹ COCC recommends students take BA 212 prior to BA 213.





BIOLOGICAL SCIENCES

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The Associate of Arts Oregon Transfer (AAOT) degree, with a focus in biology, is designed for students who wish to pursue bachelor's degree areas such as health professions, life sciences or natural sciences. Graduates with a Bachelor of Science degree from their transfer institution will be well-equipped for graduate school and other careers in biomedical fields, industry, governmental agencies and non-governmental organizations which require a broad-based education in science, mathematics and communication. Those graduates may enter such fields as conservation or environmental science, science writing, education, botany, forest or marine science, veterinary medicine, agricultural research, pharmaceuticals, human medicine or other life science careers such as research in microbiology, biotechnology, bio-informatics or genetics.

Students are expected to make and maintain communication with their choice of transfer institution while pursuing coursework at the community college level, as some have specific requirements.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and review specific transfer requirements. The following is a suggested course of study for students interested in pursuing a bachelor's degree in biology.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	nication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher)	Math in Society	4
Recommend: MTH 111	College Algebra	
•	dits with HHP prefix) ourses (1 credit each) are not to be duplicated	3
GENERAL EL	DUCATION/DISCIPLINE STUDIES	

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Letters	9-12
At least three (3) courses chosen from at least two (2) prefixes.	

Social Science
At least four (4) courses from at least two (2) prefixes.

Science/Math/Computer Science

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

Recommend:		
BI 211	Principles of Biology I	5
BI 212	Biology of Plants II	5
BI 213	Biology of Animals III	5
Plus one additional course from the science/math/computer science		
Discipline Studies list with a different prefix.		

ELECTIVES

Take enough elective courses to meet the minimum 90 credits required for the degree and lower-division major requirements.

CH 221	General Chemistry I ¹	5
CH 222	General Chemistry II ¹	5
CH 223	General Chemistry III ¹	5
FN 225	Human Nutrition	4
MTH 251	Calculus I	4
MTH 252	Calculus II	4
MTH 253	Calculus III	4
PH 201	General Physics I	5
PH 202	General Physics II	5
PH 203	General Physics III	5

The following courses are recommended for those entering health-related fields; these courses are not prerequisites for admission into dental medicine, or veterinary programs, but may help a student preparing for any of those careers.

To enhance understanding of scientific terminology:

BI 205	Scientific Terminology	3
BI 231	Human Anatomy and Physiology I	4
BI 232	Human Anatomy and Physiology II	4
BI 233	Human Anatomy and Physiology III	4
BI 234	Microbiology	4
For a field id	entification course in the native flora:	
BOT 203	General Botany	4

TRANSFER AND/OR ARTICULATION INFORMATION

Oregon universities with a biology major include: Eastern Oregon University, Oregon Health Sciences University, Oregon State University, Portland State University, Southern Oregon University, University of Oregon, Western Oregon University.

FOOTNOTES

¹ Recommended for students interested in medical, dental and veterinary schools.

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BUSINESS ADMINISTRATION ACCOUNTING CLERK ENTREPRENEURSHIP

Certificate of Completion - 40-45 credits

Certificate of Completion – 44-48 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Accounting Clerk

PROGRAM DESCRIPTION

COCC's Accounting Clerk certificate is designed to give students a foundation for careers in clerical accounting. All coursework may be applied to an Associate of Applied Science (AAS) Business degree.

COST OF PROGRAM

Standard tuition, student fees and textbooks.

PROGRAM PREPARATION AND PREREQUISITES

Recommended

- High school diploma or GED
- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 065 placement or completion of MTH 060 ("C" or better)

MINIMUM GPA OR GRADE REQUIREMENTS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

The required courses for the certificate are listed below under Program Requirements. Students should consult their advisor if they have transfer credits, are not able to attend full time, or are not at college level in reading, writing and math.

PROGRAM STANDARDS

Academic dishonesty will not be tolerated and can result in the offending student being dropped from the program. Students wishing reinstatement must seek endorsement from the department chair after completing a progressive review.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM REQUIREMENTS

The following is a suggested course of study for students interested in pursuing an Accounting Clerk certificate and will depend on course availability. A recommended sequence of the courses required for this certificate is listed below.

Introduction to Business

First term BA 101

BA 104	Business Math	3
BA 111	Applied Accounting I	3
CIS 120	Computer Concepts	0-4
or Computer	Competency Test	
Second tern	n	
BA 112	Applied Accounting II	3
BA 178	Customer Service	3
or BA 285	Business Human Relations	
CIS 131	Software Applications	4
WR 121	Academic Composition	4
Third term		
BA 113	Applied Accounting III	3
BA 177	Payroll Accounting	3
BA 229	QuickBooks	3
BA Elective	(Any BA prefix)	3-4
CIS 125E	Excel	4

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Entrepreneurship

PROGRAM DESCRIPTION

COCC's Entrepreneurship certificate is designed to give students a foundation for starting their own business, or assist in the business startup for others. All coursework may be applied to an Associate of Applied Science (AAS) Business degree.

COST OF PROGRAM

Standard tuition, student fees and textbooks.

PROGRAM PREPARATION AND PREREQUISITES

Recommended

- High school diploma or GED
- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 065 placement or completion of MTH 060 ("C" or better)

MINIMUM GPA OR GRADE REQUIREMENTS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

The required courses for the certificate are listed below under Program Requirements. Students should consult their advisor if they have transfer credits, are not able to attend full time, or are not at college level in reading, writing and math.

PROGRAM STANDARDS

Academic dishonesty will not be tolerated and can result in the offending student being dropped from the program. Students wishing reinstatement must seek endorsement from the department chair after completing a progressive review.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM REQUIREMENTS

The following is a suggested course of study for students interested in pursuing an Entrepreneurship certificate and will depend on course availability. A recommended sequence of the courses required for this certificate is listed below.

Introduction to Business

First term BA 101

4

BA 104	Business Math	3
BA 253	Business Plan Elements	4
or BA 271	Product Development Process	
CIS 120	Computer Concepts	0-4
or Computer	Competency Test	
LIB 100	Introduction to Finding Information	1
Second terr	m	
BA 217	Accounting Fundamentals	4
BA 223	Marketing Principles I	4
BA 237	Marketing Research	4
CIS 131	Software Applications	4
Third term		
BA 206	Management Fundamentals I	4
BA 250	Entrepreneurship	4
BA 254	Business Strategies	4
or BA 272	Product Development Strategies	
WR 121	Academic Composition	4

BUSINESS ADMINISTRATION GROUND TRANSPORTATION LOGISTICS MARKETING COMMUNICATIONS

Certificate of Completion – 45-49 credits

Certificate of Completion - 42-46 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Ground Transportation Logistics

PROGRAM DESCRIPTION

The Ground Transportation Logistics certificate provides students with principles of logistics management and marketing, as well as technological advancements, trends and current issues within the ground transportation and supply chain management industry. Students will learn how transportation logistics impact businesses, both on a domestic and global scale, as well as the practical application of processes and standards within the current business context of transportation and logistics management.

COST OF PROGRAM

Standard tuition, student fees and textbooks.

PROGRAM PREPARATION AND PREREQUISITES

Recommended

- High school diploma or GED
- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 065 placement or completion of MTH 060 ("C" or better)

MINIMUM GPA OR GRADE REQUIREMENTS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

The required courses for the certificate are listed below under Program Requirements. Students should consult their advisor if they have transfer credits, are not able to attend full time, or are not at college level in reading, writing and math.

PROGRAM STANDARDS

Academic dishonesty will not be tolerated and can result in the offending student being dropped from the program. Students wishing reinstatement must seek endorsement from the department chair after completing a progressive review.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM REQUIREMENTS

The following is a suggested course of study for students interested in pursuing a Ground Transportation Logistics certificate and will depend on course availability.

First term

i ii st teiiii		
BA 101	Introduction to Business	4
BA 104	Business Math	3
CIS 120	Computer Concepts	0-4
or Computer C	Competency Test	
WR 121	Academic Composition	4
Second Term	1	
BA 120	Introduction to Supply Chain Management	4
BA 123	Introduction to Transportation Logistics	4
BA 178	Customer Service	3
CIS 131	Software Applications	4
Third term		
BA 121	Logistics Management I	4
BA 124	Trucking Operations Management	4
BA 206	Management Fundamentals I	4
BA 286	Managing Business Processes	4
Fourth term		
BA 214	Business Communications	3

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Marketing Communications

PROGRAM DESCRIPTION

The Marketing Communications Certificate gives students the skills to research target consumer preferences and utilize that research to create a branding strategy and promotional content for both electronic and traditional marketing media channels. A student pursuing this certificate should be seeking to add these skills to other previously acquired business education or experience. All coursework may be applied to an Associate of Applied Science (AAS) Business degree.

COST OF PROGRAM

Standard tuition, student fees and textbooks.

PROGRAM PREPARATION AND PREREQUISITES

Recommended

- High school diploma or GED
- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 065 placement or completion of MTH 060 ("C" or better)
- Work experience providing an understanding of general business functions or completion of BA 101 Introduction to Business

MINIMUM GPA OR GRADE REQUIREMENTS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

The required courses for the certificate are listed below under Program Requirements. Students should consult their advisor if they have transfer credits, are not able to attend full time or are not at college level in reading, writing and math.

PROGRAM STANDARDS

Academic dishonesty will not be tolerated and can result in the offending student being dropped from the program. Students wishing reinstatement must seek endorsement from the department chair after completing a progressive review.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM REQUIREMENTS

The following is a suggested course of study for students interested in pursuing a Marketing Communications certificate and will depend on course availability.

First term

BA 104	Business Math	3
BA 223	Marketing Principles I	4
CIS 120	Computer Concepts	0-4
or Computer	Competency Test	
LIB 100	Introduction to Finding Information	1
WR 121	Academic Composition	4
Second terr	n	
BA 232	Branding	4
BA 237	Marketing Research	4
BA 261	Consumer Behavior	4
CIS 131	Software Applications	4
Third term		
BA 178	Customer Service	3
BA 214	Business Communications	3
BA 233	Internet Marketing	4
or BA 239	Advertising	
CIS 178	Internet in Depth	4

BUSINESS ADMINISTRATION OFFICE ASSISTANT RETAIL MANAGEMENT

Certificate of Completion – 36-40 credits

Certificate of Completion – 43-47 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Office Assistant

PROGRAM DESCRIPTION

The Office Assistant certificate is designed for persons preparing for immediate entry-level employment in office occupations and those already in business who desire to update and enhance their skills.

COST OF PROGRAM

Standard tuition, student fees and textbooks.

PROGRAM PREPARATION AND PREREQUISITES

Recommended

- High school diploma or GED
- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 065 placement or completion of MTH 060 ("C" or better)
- Keyboarding skills at 25 words per minute or better (CIS 010 is recommended for basic keyboarding skills acquisition)

MINIMUM GPA OR GRADE REQUIREMENTS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

Full-time suggested term-by-term coursework schedule assumes collegelevel placement in reading, writing and math. Part-time students and those with schedule conflicts, should see an advisor for proper course sequencing and prerequisite requirements.

PROGRAM STANDARDS

Academic dishonesty will not be tolerated and can result in the offending student being dropped from the program. Students wishing reinstatement must seek endorsement from the department chair after completing a progressive review.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM REQUIREMENTS

The following is a suggested course of study for students interested in pursuing an Office Assistant certificate and will depend on course availability. A recommended sequence of the courses required for this certificate is listed below.

First term		
BA 101	Introduction to Business	4
BA 104	Business Math	3 3
BA 111	Applied Accounting I	3
CIS 120	Computer Concepts	0-4
or Computer C	ompetency Test	
WR 121	Academic Composition	4
Second term		
BA 178	Customer Service	3
BA 214	Business Communications	3 3 4
CIS 131	Software Applications	4
Third term		
CIS 125E	Excel	4
	Excel (2) from the following:	8
Plus select two	(2) from the following:	
Plus select two CIS 122	(2) from the following: Introduction to Programming	
Plus select two CIS 122 CIS 125A	(2) from the following: Introduction to Programming Access Introduction to Dreamweaver	
Plus select two CIS 122 CIS 125A CIS 125DW	(2) from the following: Introduction to Programming Access	
Plus select two CIS 122 CIS 125A CIS 125DW CIS 125G	(2) from the following: Introduction to Programming Access Introduction to Dreamweaver Photoshop A+ Essentials I	
Plus select two CIS 122 CIS 125A CIS 125DW CIS 125G CIS 140	(2) from the following: Introduction to Programming Access Introduction to Dreamweaver Photoshop	

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Retail Management

PROGRAM DESCRIPTION

COCC's Retail Management certificate is designed to give students a foundation for careers in retail business management. All coursework may be applied to an AAS Business degree.

COST OF PROGRAM

Standard tuition, student fees and textbooks.

PROGRAM PREPARATION AND PREREQUISITES

Recommended

- High school diploma or GED
- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 065 placement or completion of MTH 060 ("C" or better)

MINIMUM GPA OR GRADE REQUIREMENTS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

The required courses for the certificate are listed below under Program Requirements. Students should consult their advisor if they have transfer credits, are not able to attend full time or are not at college level in reading, writing and math.

PROGRAM STANDARDS

Academic dishonesty will not be tolerated and can result in the offending student being dropped from the program. Students wishing reinstatement must seek endorsement from the department chair after completing a progressive review.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM REQUIREMENTS¹

The following is a suggested course of study for students interested in pursuing a Retail Management certificate and will depend on course availability.

	,	
First term		
BA 101	Introduction to Business	4
or any BA pre	fix course	
BA 111	Applied Accounting I	3
CIS 120	Computer Concepts	0-4
or Computer (Competency Test	
WR 121	Academic Composition	4
Second term	1	
BA 104	Business Math	3
BA 178 ²	Customer Service	3
or any BA pre	fix course	
BA 206	Management Fundamentals I	4
BA 223	Marketing Principles I	4
BA 285	Business Human Relations	3
Third term		
BA 214	Business Communications	3
BA 224	Human Resources Management	4
BA 249	Retailing	4
CIS 131	Software Applications	4

ADVISING NOTES

- Western Association of Food Chains provides an industry certificate of completion for 8 courses of the COCC Retail Management Certificate Coursework (see retailmanagementcertificate.com).
- ²Students planning to continue education and apply coursework toward any AAS Business Specialization are advised to plan these 3 credits carefully with an advisor.

BUSINESS ADMINISTRATION – BUSINESS

Associate of Applied Science (AAS) Degree with Specializations 90-98 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Business Administration with specializations in: General Business, Accounting, Management, Small Business/ Entrepreneurship or Retail Operations Management.

PROGRAM DESCRIPTION

The AAS coursework prepares students for immediate employment in business occupations. Business Administration AAS degrees may be awarded indicating emphasis in the following areas of specialization: General Business, Accounting, Management, Small Business/Entrepreneurship or Retail Operations Management.

COST OF PROGRAM

Standard tuition, student fees and textbooks.

PROGRAM PREPARATION AND PREREQUISITES

Recommended

- High school diploma or GED
- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 065 placement or completion of MTH 060 ("C" or better)

MINIMUM GPA OR GRADE REQUIREMENTS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

The following is provided to assist students in planning their schedule. Students should take as many Level 1 courses as possible before attempting Level 2 courses, Level 2 courses before Level 3 courses, etc. This will enable students to approach each class with the background necessary to succeed and enjoy the course content.

TRANSFER INFORMATION

This degree is designed for students planning to enter their chosen career upon graduation. Only selected credits are considered transferrable to public or private baccalaureate institutions. See advisor for additional information.

PROGRAM REQUIREMENTS

Level 1 Foundation Courses

Foundation courses ensure that students have basic skills and basic business concepts to address further skill development. Foundation courses include math, computer and writing skills. Students should take MTH 060 or have a placement score above MTH 060.

BA 101	Introduction to Business	4
BA 104	Business Math	3
BA 111	Applied Accounting I	3
BA 178	Customer Service	3
or BA 285	Business Human Relations	
BA 218	Personal Finance	3
CIS 120	Computer Concepts	0-4
or Computer Co	ompetency Test	
CIS 131	Software Applications	4
LIB 100	Introduction to Finding Information	1
WR 121	Academic Composition	4

Level 2 Core Courses

Core courses that will allow students to begin to understand concepts in their specialization courses taken in Level 3.

BA 112	Applied Accounting II	3
BA 113	Applied Accounting III	3
BA 206	Management Fundamentals I	4

BA 214	Business Communications	3
BA 223	Marketing Principles I	4
BA 226	Business Law I	4
BA 250	Entrepreneurship	4
BA 261	Consumer Behavior	4
CIS 125E	Excel	4

Level 3 Specialization Courses

GENERAL BUSINESS SPECIALIZATION

Take an additional 21-24 credits of any courses with a BA prefix and/or CIS 178

ACCOUNTING SPECIALIZATION

This specialization is for those who desire to be accountants for a small-to medium-sized business. (24-25 credits)

BA 177	Payroll Accounting	3
BA 211	Financial Accounting I	4
BA 212	Financial Accounting II	4
BA 213	Managerial Accounting	4
BA 228	Computer Accounting Applications	3
BA 229	QuickBooks	3
BA Elective	Any BA prefix course	3-4

MANAGEMENT SPECIALIZATION

This specialization is designed for those students who aspire to be managers in a small/medium-sized organization. This degree can also help those who wish to be more effective managers in their current position. (21-24 credits)

BA 207	Management Fundamentals II	4
BA 224	Human Resources Management	4
BA 286	Managing Business Processes	4
Select 9-12 credits from any BA prefix		9-12

SMALL BUSINESS/ENTREPRENEURSHIP SPECIALIZATION

This specialization is for those who plan to start up and run a business or grow an existing business. (24 credits)

BA 232	Branding	4
BA 233	Internet Marketing	4
BA 237	Marketing Research	4
BA 253	Business Plan Elements	4

Select 2 courses from this list:

BA 239	Advertising	4
BA 254	Business Strategies	4
BA 271	Product Development Process	4
BA 272	Product Development Strategies	4
CIS 178	Internet in Depth	4

RETAIL OPERATIONS MANAGEMENT SPECIALIZATION

This specialization is for those who desire to be sales representatives, sales management, marketing directors, project managers, human resources managers, customer service specialists and public relations specialists. (22-24 credits)

BA 207	Management Fundamentals II	4
BA 224	Human Resources Management	4
BA 239	Advertising	4
BA 249	Retailing	4
Select 6-8 credits from any BA prefix		6-8

Level 4 Advanced Core and Capstone Courses

These courses should be taken after completion of Level 1 and 2 and may be taken concurrently with specialization courses (Level 3).

BA 220	Business Analysis and Budgeting	4
BA 222	Business Finance	4
BA 290	Business Seminar	3

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BUSINESS ADMINISTRATION – BUSINESS TRANSFER

Associate of Science Oregon Transfer (ASOT) Business Degree 90 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Science Oregon Transfer-Business

PROGRAM DESCRIPTION

The Associate of Science Oregon Transfer Business degree (ASOT) is designed for students with a high level of certainty about their decision to earn a bachelor's degree with a major in business from an Oregon public university.

PROGRAM PREPARATION AND PREREQUISITES

Recommended

- High school diploma or GED
- · Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 020/031 placement or completion of MTH 010 ("C" or better)

MINIMUM GPA OR GRADE REQUIREMENTS

All courses must be completed at a "C" grade or better.

TRANSFER AND ADVISING INFORMATION

Any student having the Associate of Science Oregon Transfer – Business (ASOT - Business) degree recognized on an official college transcript will have met the lower division General Education requirements of baccalaureate degree programs of any Oregon public university.

Students transferring under this agreement will have junior status for registration purposes. Course, class standing, or GPA requirements for specific majors, departments, or schools are not necessarily satisfied by an ASOT - Business degree.

All courses should be aligned with the student's intended program of study and the degree requirements of the baccalaureate institution to which the student plans to transfer. Admission to an Oregon public university is not guaranteed upon completion of the ASOT – Business degree. A student is encouraged to work with an advisor in the selection of courses within the ASOT – Business degree for alignment with the institution to which the student intends to transfer.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

Specific Oregon public universities have identified additional lowerdivision business requirements to accompany the ASOT – Business.

Students planning to transfer to OSU, Cascades should make the following choices to meet OSU requirements: BA 250, MTH 111, MTH 241, MTH 243, MTH 244 and SP 111 or SP 114 (instead of other SP options listed).

FOUNDATIONAL REQUIREMENTS

_			
anc	I/or WR 227	Technical Writing	
WR	122	Argument, Research and Multimodal Composition	4
WR	121	Academic Composition	4
Mir	nimum of eig	ght (8) credits of college transfer writing courses:	

Oral Communication			
SP 111	Fundamentals of Public Speaking	3-4	
or SP 114	Argumentation and Critical Discourse		
or SP 115	Introduction to Intercultural Communication		
or SP 218	Interpersonal Communication		
or SP 219	Small Group Communication		

Mathematics

A minimum of three courses which include MTH 243, plus two (2) additional courses of MTH 105 or higher.

DISCIPLINE STUDIES REQUIREMENTS

Courses numbered 199 or 299 will not fulfill Discipline Studies requirements. One of the Discipline Studies courses below must be a cultural literacy course, designated with an asterisk.

Arts and Letters	9-12
Three courses chosen from two or more disciplines.	

Social Sciences		12-16
EC 201	Microeconomics	4
EC 202	Macroeconomics	4

Two (2) additional Social Science courses, one of which must have a different prefix than EC.

Science/Math/Computer Science

Four courses from at least two disciplines including at least three (3) laboratory courses in biological and/or physical science.

Business Specific Requirements

BA 101	Introduction to Business	4
BA 211	Financial Accounting I	4
BA 212	Financial Accounting II	4
BA 213	Managerial Accounting	4
BA 226	Business Law I	4

ELECTIVES

Recommended courses to take as electives are BA 206 and BA 223. It is recommended that students planning to transfer to OSU take BA 250 and HHP 295. Sufficient number of transfer-level courses to meet total degree requirements of at least 90 credits may include a maximum of 12 Career and Technical Education (CTE) credits. See advisor for recommended electives as well as specific institution transfer requirements.

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CASCADE CULINARY INSTITUTE – BAKING AND PASTRY ARTS

Certificate of Completion 54-55 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Baking and Pastry Arts

PROGRAM DESCRIPTION

This program is designed to expose students to the step-by-step process. from foundation to advanced skill mastery, of classical and contemporary baking and pastry arts techniques and to serve as a competency-based learning experience that prepares students for a successful career within the hospitality industry. Emphasis is given to technique and ratios over that of recipes. The curriculum delivers hands-on applied learning grounded in theory. Instructors conduct daily assessment of student learning in the areas of applied competency-based skill development, professionalism, food safety and sanitation and organization; combined with standard homework assignments, projects, quizzes and exams. Field trips and guest speakers serve to enhance the student learning experience and to provide up-to-date information regarding current industry practices. Participation in social and community service learning activities also provide informal learning and industry networking opportunities for students outside of the classroom. The Baking and Pastry Arts Certificate program has been accredited by the American Culinary Federation Foundation Accrediting Commission since 2014.

COST OF PROGRAM

In addition to standard COCC tuition rates, students should anticipate the following estimated program costs:

- \$23 OLCC Liquor Control Card
- \$185 per credit course fee
- Additional costs for books, knives and supplies approximately \$1,500

PROGRAM ENTRANCE REQUIREMENTS

- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 060 placement (equivalent to CUL 090) or completion of MTH 020/031 ("C" or better)

MINIMUM GPA AND GRADE REQUIREMENTS

All required program courses must be completed at a "C" grade or better and graduates must have a cumulative 2.0 GPA or higher.

PROGRAM STANDARDS

See Culinary Student Handbook.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen field after completion. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM REQUIREMENTS RECOMMENDED COURSE SEQUENCING

lerm One		
BAK 110	Baking Foundations I	4
CUL 090	Applied Math for Culinary Arts	4
CUL 102	Food Safety and Sanitation	2
WR 121	Academic Composition	3-4
or BA 214	Business Communications	
Term Two		
BAK 140	Baking and Pastry Foundations II	4
CUL 101	Introduction to Culinary	4
HM 130	Hospitality Industry Supervision and Principles	
	of Leadership	4
HM 150	Procurement, Ingredient Identification and	
	Food Cost Control	3
Term Three		
BAK 170	Baking and Pastry Foundations III	4
BAK 180	Custards and Frozen Desserts	4
HM 190	Contemporary Dining Room Service Operations,	
	Etiquette and Guest Relations	5
Term Four		
BAK 210	Modern Sugar Art and Chocolate Décor	4
CUL 200	Comprehensive Kitchen Operations for the	
	Restaurant Industry	5
CUL 230	Culinary Nutrition and Applied Techniques of	
	Healthy Cooking	4

CASCADE CULINARY INSTITUTE – BAKING AND PASTRY ARTS

Associate of Applied Science (AAS) Degree 96-97 credits

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DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Baking and Pastry Arts

PROGRAM DESCRIPTION

The Bakina and Pastry Arts AAS Degree program is designed to expose students to the step-by-step process, from foundation to advanced skill mastery, of classical and contemporary baking and pastry techniques and to serve as a competency-based learning experience that prepares students for a successful career within the hospitality industry. Emphasis is given to technique and ratios over that of recipes. The curriculum delivers hands-on applied learning that is grounded in theory. Instructors conduct daily assessment of student learning in the areas of applied competencybased skill development, professionalism, food safety and sanitation and organization; combined with standard homework assignments, projects, quizzes and exams. Field trips and guest speakers serve to enhance the student learning experience and to provide up-to-date information regarding current industry practices. Participation in social and community service learning activities also provide informal learning and industry networking opportunities for students outside of the classroom. The Baking and Pastry Arts Certificate program has been accredited by the American Culinary Federation Foundation Accrediting Commission since 2014.

COST OF PROGRAM

In addition to standard COCC tuition rates, students should anticipate the following estimated program costs:

- \$23 OLCC Liquor Control Card
- \$185 per credit course fee
- Additional costs for books, knives and supplies approximately \$1,500

PROGRAM ENTRANCE REQUIREMENTS

- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 060 placement (equivalent to CUL 090) or completion of MTH 020/031 ("C" or better)

MINIMUM GPA AND GRADE REQUIREMENTS

All required program courses must be completed at a "C" grade or better and graduates must have a cumulative 2.0 GPA or higher.

PROGRAM STANDARDS

See Culinary Student Handbook.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen field after completion. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM REQUIREMENTS RECOMMENDED COURSE SEQUENCING

Term One		
BAK 110	Baking Foundations I	4
CUL 090	Applied Math for Culinary Arts	4 2
CUL 102	Food Safety and Sanitation	2
WR 121	Academic Composition	3-4
or BA 214	Business Communications	
Term Two		
BAK 140	Baking and Pastry Foundations II	4
CUL 101	Introduction to Culinary	4
HM 130	Hospitality Industry Supervision and	
	Principles of Leadership	4
HM 150	Procurement, Ingredient Identification and	
	Food Cost Control	2

ierm i nree		
BAK 170	Baking and Pastry Foundations III	4
BAK 180	Custards and Frozen Desserts	4
HM 190	Contemporary Dining Room Service Operations,	
	Etiquette and Guest Relations	5
Term Four		
BAK 210	Modern Sugar Art and Chocolate Décor	4
BAK 220	Wedding, Celebration and Specialty Cakes	4
CUL 200	Comprehensive Kitchen Operations for the	
	Restaurant Industry	5
CUL 230	Culinary Nutrition and Applied Techniques	
	of Healthy Cooking	4
Term Five		
BAK 240	The Craft of Artisan Breads	4
BAK 250	Petit Fours, Candies and Specialty Cakes	4
1 course	Baking and Pastry Specialization List	4
1 course	Baking and Pastry Specialization List	4
Term Six		
CUL 270	Culinary Arts Capstone Internship	6
1 course	Baking and Pastry Specialization List	4
1 course	Baking and Pastry Specialization List	4
Term Seven	•	
BAK 280	Baking and Pastry Industry Internship	6
HM 290	Career Success and E-Folio Presentation	2
	D PASTRY SPECIALIZATION LIST	
BA 101	Introduction to Business	4
BA 206	Management Fundamentals I	4
BA 223	Marketing Principles I	4
BA 250	Entrepreneurship	4
BAK 101	Introduction to Baking & Pastry	4
BAK 235s	Classical French Pastries	4
BAK 245s	Advanced Sugar Décor and Chocolate Sculpting	4
BAK 255s	Artisan Breads with Heirloom Whole Grains	4
CUL 225	Applied Harvesting and Food Preservation Principles	4
CUL 235s	Farm to Table and Sustainable Cuisine Practices	4
CUL 245s	Modernist Cuisine and the Evolution of Cooking	4
CUL 255s	Event Planning and Execution with Modern	4
CLIL OZE	Banquet Cookery	4
CUL 265s	Advanced Skill Development and Culinary	4
	Competition Mastery	4

CASCADE CULINARY INSTITUTE – CULINARY ARTS

Certificate of Completion 50-51 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Culinary Arts

PROGRAM DESCRIPTION

This program is designed to expose students to the step-by-step process. from foundation to advanced skill mastery, of classical and contemporary culinary techniques and to serve as a competency-based learning experience that prepares students for a successful career within the hospitality industry. Emphasis is given to technique and ratios over that of recipes. The curriculum delivers hands-on applied learning grounded in theory. Instructors conduct daily assessment of student learning in the areas of applied competency-based skill development, professionalism, food safety and sanitation and organization; combined with standard homework assignments, projects, quizzes and exams. Field trips and guest speakers serve to enhance the student learning experience and to provide up-to-date information regarding current industry practices. Participation in social and community service learning activities also provide informal learning and industry networking opportunities for students outside of the classroom. The Culinary Arts Certificate program has been accredited by the American Culinary Federation Foundation Accrediting Commission since 2003.

COST OF PROGRAM

In addition to standard COCC tuition rates, students should anticipate the following estimated program costs:

- \$23 OLCC Liquor Control Card
- \$185 per credit course fee
- Additional costs for books, knives and supplies approximately \$1,500

PROGRAM ENTRANCE REQUIREMENTS

- High school diploma or GED
- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 060 placement (equivalent to CUL 090) or completion of MTH 020/031 ("C" or better)

MINIMUM GPA AND GRADE REQUIREMENTS

All courses required for the program must be completed at a "C" grade or better and graduates must have a cumulative 2.0 GPA or higher.

PROGRAM STANDARDS

See Culinary Student Handbook.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen field after completion. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM REQUIREMENTS RECOMMENDED COURSE SEQUENCING

Term One		
CUL 090	Applied Math for Culinary Arts	4
CUL 102	Food Safety and Sanitation	2
CUL 110	Culinary Arts Foundations I	4
WR 121	Academic Composition	3-4
or BA 214	Business Communications	
Term Two		
CUL 140	Culinary Foundations II	4
HM 130	Hospitality Industry Supervision and	
	Principles of Leadership	4
HM 150	Procurement, Ingredient Identification and	
	Food Cost Control	3
Term Three		
CUL 170	Culinary Foundations III	4
CUL 180	Modern Garde Manger	4
HM 190	Contemporary Dining Room Service Operations,	
	Etiquette and Guest Relations	5
Term Four		
BAK 101	Introduction to Baking and Pastry	4
CUL 200	Comprehensive Kitchen Operations for the	
	Restaurant Industry	5
CUL 230	Culinary Nutrition and Applied Techniques	
	of Healthy Cooking	4

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CASCADE CULINARY INSTITUTE – CULINARY ARTS

Associate of Applied Science (AAS) Degree 94-95 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Culinary Arts

PROGRAM DESCRIPTION

This program is designed to expose students to the step-by-step process, from foundation to advanced skill mastery, of classical and contemporary culinary techniques and to serve as a competency-based learning experience that prepares students for a successful career within the hospitality industry. Emphasis is given to technique and ratios over that of recipes. The curriculum delivers hands-on applied learning that is grounded in theory. Instructors conduct daily assessment of student learning in the areas of applied competency-based skill development, professionalism, food safety and sanitation and organization; combined with standard homework assignments, projects, quizzes and exams. Field trips and guest speakers serve to enhance the student learning experience and to provide up-to-date information regarding current industry practices. Participation in social and community service learning activities also provide informal learning and industry networking opportunities for students outside of the classroom. The Culinary Arts AAS degree has been accredited by the American Culinary Federation Foundation Accrediting Commission since 2003.

COST OF PROGRAM

In addition to standard COCC tuition rates, students should anticipate the following estimated program costs:

- \$23 OLCC Liquor Control Card
- \$185 per credit course fee
- Additional costs for books, knives and supplies approximately \$1,500

PROGRAM ENTRANCE REQUIREMENTS

- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 060 placement (equivalent to CUL 090) or completion of MTH 020/031 ("C" or better)

MINIMUM GPA AND GRADE REQUIREMENTS

All courses required for the program must be completed at a "C" grade or better and graduates must have a cumulative 2.0 GPA or higher.

PROGRAM STANDARDS

See Culinary Student Handbook.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen field after completion. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM REQUIREMENTS RECOMMENDED COURSE SEQUENCING

Term One		
CUL 090	Applied Math for Culinary Arts	4
CUL 102	Food Safety and Sanitation	2
CUL 110	Culinary Arts Foundations I	4
WR 121	Academic Composition	3-4
or BA 214	Business Communications	
Term Two		
BAK 101	Introduction to Baking and Pastry	4
CUL 140	Culinary Foundations II	4
HM 130	Hospitality Industry Supervision and	
	Principles of Leadership	4
HM 150	Procurement, Ingredient Identification and	
	Food Cost Control	3

Term Three		
CUL 170	Culinary Foundations III	4
CUL 180	Modern Garde Manger	4
HM 190	Contemporary Dining Room Service Operations,	
	Etiquette and Guest Relations	5
HM 210	Menu Composition and Analysis	3
Term Four		
CUL 200	Comprehensive Kitchen Operations for the	
COL 200	Comprehensive Kitchen Operations for the Restaurant Industry	5
CUL 220	International Cuisine and Global Flavor Profiling	5 4
CUL 230	Culinary Nutrition and Applied Techniques	4
COL 230		1
CUL 280	of Healthy Cooking Culinary Arts Industry Internship	6
	Cullidity Arts industry internship	0
Term Five		
CUL 240	Butchery	4
1 course	Culinary Specialization List	4
1 course	Culinary Specialization List	4
Term Six		
HM 160	Wine and Specialty Beverage Management	
	and Service	3
1 course	Culinary Specialization List	4
1 course	Culinary Specialization List	4
Term Seven		,
CUL 270	Culinary Arts Capstone Internship	6
HM 290	Career Success and E-Folio Presentation	2
CULINARY S	SPECIALIZATION LIST	
BA 101	Introduction to Business	4
BA 206	Management Fundamentals I	4
BA 223	Marketing Principles I	4
BA 250	Entrepreneurship	4
BAK 210	Modern Sugar and Chocolate Décor	4
BAK 220	Celebration and Specialty Cakes	4
BAK 235s	Classical French Pastries	4
BAK 240	The Craft of Artisan Breads	4
BAK 245s	Advanced Sugar Décor and Chocolate Sculpting	4
BAK 255s	Artisan Breads with Heirloom Whole Grains	4
CUL 101	Introduction to Culinary	4
CUL 199	Selected Topics: Culinary	4
CUL 225	Applied Harvesting and Food Preservation Principles	4
CUL 235s	Farm to Table and Sustainable Cuisine Practices	4
CUL 245s	Modernist Cuisine and the Evolution of Cooking	4
CUL 255s	Event Planning and Execution with Modern	
	Banquet Cookery	4
CUL 265s	Advanced Skill Development and Culinary	
	Competition Mastery	4
CUL 276a	Regional World Cuisines: Africa	4
CUL 276c	Regional World Cuisines: Caribbean	4
CUL 276f	Regional World Cuisines: France	4
CUL 276g	Regional World Cuisines: Germany	4
CUL 276i	Regional World Cuisines: Italy	4
CUL 276j	Regional World Cuisines: Asia	4
CUL 276s	Regional World Cuisines: Spain	4

CHEMISTRY

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

Chemists study the composition and transformations of matter. Chemists work in a wide variety of settings and find employment with government, academic and private institutions. Chemistry is frequently described as the "central science" because of the connections between it and all other scientific disciplines. Earning a degree in chemistry can be the first step toward careers with chemical, materials or pharmaceutical companies, biotech firms or forensic laboratories. It can also be a stepping stone on the route to a professional medical degree, for instance in medicine, physical therapy or pharmacy. Chemists are readily employable after completion of a bachelor's degree. Earning an Associate of Arts Oregon Transfer (AAOT) degree with a chemistry emphasis is also excellent preparation for bachelor's degrees in related disciplines such as toxicology, atmospheric science, environmental science or materials science.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The department maintains the ability to offer CH 241, 242 and 243 - Organic Chemistry I, II and III - each with laboratory. Please see a chemistry faculty member or the department chair if you have an interest in this subject.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in chemistry.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	ınication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher)	s Math in Society	4
Recommend: MTH 111	College Algebra	
•	dits with HHP prefix) ourses (1 credit each) are not to be duplicated	3

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Lett At least three (rers 3) courses from at least two (2) prefixes.	9-12
Social Science At least four (4	re) courses from at least two (2) prefixes.	12-16
At least four (4	n/Computer Science) courses from at least two (2) prefixes including a atory courses in biological and/or physical science	
CH 221	General Chemistry I	5
CH 222	General Chemistry II	5
CH 223	General Chemistry III	5
PH 201 or 211	General Physics I	5
ELECTIVES Recommend:		

MTH 251	Calculus I	4
MTH 252	Calculus II	4
MTH 253	Calculus III	4
PH 202 or 212	General Physics II	5
PH 203 or 213	General Physics III	5

TRANSFER INFORMATION

Oregon public universities with a chemistry major include: Eastern Oregon University, Oregon State University, Portland State University, Southern Oregon University, University of Oregon, Western Oregon University.

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COMMUNICATIONS / JOURNALISM

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The Speech Communication program offers courses in public speaking, small group communication, interpersonal communication, as well as courses on the media, gender, intercultural communication and argumentation. One-credit, workshop-style courses are also available for those who want to learn team skills, conflict management, listening skills and the basics of free expression. A degree in speech communication can lead to a career in teaching, the hospitality industry, broadcast and cyber media, human resources, business management, public relations, politics, law or the arts.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in speech communication.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing		
WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	ınication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher)	s Math in Society	4
Recommend: MTH 111	College Algebra	
•	dits with HHP prefix) ourses (1 credit each) are not to be duplicated	3

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Letters 9-12

At least three (3) courses from at least two (2) prefixes.

Speech communication majors should consider courses with ART, HUM, ENG, PHL, SP or TA prefixes.

Social Science 12-16

At least four (4) courses from at least two (2) prefixes.

Speech communication majors interested in quantitative communication studies should consider courses with a PSY or SOC prefix.

Speech communication majors interested in rhetoric and public address should consider courses with an HST or PS prefix.

Science/Math/Computer Science

12-20

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

ELECTIVES

Choose enough electives to reach the minimum of 90 credits for the AAOT. In addition to the recommendations listed below, speech communication majors should consider taking a broad range of courses

communication	n majors snould consider taking a broad range of cours	es.
SP 115	Introduction to Intercultural Communication	4
SP 218	Interpersonal Communication	3
SP 219	Small Group Communication	4
SP 220	Gender Communication	3
SP 230	Introduction to the Rhetoric of Film	3
SP 234	Introduction to Visual Rhetoric	3
SP 241	Media, Communication and Society	4
SP 242	Introduction to Broadcasting/Podcasting	4
SP 250	Listening	1
SP 252	Team Skills	1
SP 253	Conflict Management	1
SP 254	Free Expression and Public Assembly	1
SP 270	Communicating Love	3

TRANSFER INFORMATION

Oregon public universities offer a variety of programs for speech communication majors who seek a bachelor's or more advanced degree. Some Oregon two-year and four-year colleges have required speech courses that are 4 credits, so students transferring to those colleges may find it helpful to take one of the 1 credit courses, such as SP 250, SP 252, SP 253 or SP 254, to supplement one of the 3 credit speech courses.

Oregon State University – Cascades offers a speech communication minor; contact its Admissions office for more information.

OSU's (Corvallis) department of Speech Communication offers undergraduate programs leading to BA or BS degrees, with concentrations in communication or theatre arts. Additionally, students at OSU can complete a minor either in communication or theatre arts, as well as one in the multimedia minors. At the graduate level they participate in the Master of Arts in Interdisciplinary Studies program.

Oregon Tech's Communications Department offers a BS in Communication Studies, with an optional certificate in Dispute Resolution. They also offer minors in Human Communication or Technical Communication.

Southern Oregon University's Department of Communication provides students the opportunity to develop verbal and nonverbal communication knowledge and skills through exploration of human communication, mass media studies and journalism. In addition to these three degree programs, the department offers four minor options to support a variety of goals: human communication, journalism, media studies and public relations.

The University of Oregon's School of Journalism and Communication offers majors in six areas: advertising, electronic media, communication studies, magazine journalism, news-editorial or public relations.

Western Oregon University's Speech Communication Department offers a 57-hour major and a 27-hour minor in speech communication. In the liberal arts tradition, their program emphasizes classic texts of rhetoric, modern communication theory and the latest developments in mass media and communication technology.

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COMPUTER AND INFORMATION SYSTEMS (CIS)

Associate of Applied Science (AAS) Degree 94-100 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Computer and Information Systems with option

PROGRAM DESCRIPTION

The Computer Information Systems (CIS) degree program is designed around a core curriculum and four distinct options. The program's core provides an introduction to computer concepts, software applications, operating systems, networking, database, computer servicing, internet, math, human relations and writing. Graduates work in information technology (IT) for a wide variety of commercial businesses, education, federal/state/local governments, e-commerce, publishing and real estate. CIS careers typically include positions such as PC technician, desktop support, network administrator, web developer, draftsperson, database administrator, system administrator and related managerial and administrative roles.

To earn an AAS in Computer Information Systems, a student must complete 67-72 core credits and a minimum of 27-28 credits of CIS and/ or CS electives. Students may choose to complete a general AAS in CIS by taking any 27credits with a CIS or CS prefix 100 or above, or a student may elect to complete an option in one or more areas: Networking, Computer Aided Drafting (CAD), Desktop Support, or Web Development. If a student selects specific electives to complete the requirements for one of the four options, the AAS degree awarded also specifies the option successfully completed. The general AAS provides the most flexibility in course selection and scheduling.

The **Computer Aided Drafting** option prepares students for entry-level employment in the drafting field. Students prepare for advanced CAD applications through an introductory set of CAD-based curriculum. Students will gain experience using dedicated architectural, civil and mechanical software.

The **Desktop Support** option prepares students to provide technical assistance to computer system users, answer questions, or resolve computer problems for clients in person, via telephone or from a remote location. Other responsibilities may include providing support for computer hardware and software, including printing, installation, word processing, spreadsheets, database, electronic mail and operating systems.

The **Networking** option prepares students for entry-level positions in network administration. Network specialists have the ability to design, create, manage and maintain computer networks for small businesses. Courses cover both hardware and software and closely follow major industry certification requirements.

The **Web Development** option prepares students for a career as a web developer or website administrator. These professionals are responsible for creating standards-based websites and web/database applications. In addition to programming skills in common markup, scripting and SQL languages, these types of professions require project management and communication skills.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

Materials (8-32 GB usb/flash drive, basic office supplies, notebooks) \$100.

Strongly recommended, but not required

A home or laptop computer capable of running the latest version of the Windows operating system and the latest version of Microsoft Office, \$600. Contact program instructors for specifics.

PROGRAM PREPARATION AND RECOMMENDED PREREQUISITES

Recommended prior to entry in program (CIS) courses

- High school diploma or GED
- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 085 placement or completion of MTH 020 and/or MTH 060 equivalent
- Basic computer competency (or CIS 010 and CIS 070)

All COCC students enrolled in the Computer and Information Systems program (which includes requirements for Cooperative Work Experience) may have to pass criminal history checks (CHC) as a condition of their acceptance into a work site. Students who do not pass the CHC may not be eligible to complete requirements at affiliated practicum sites or be hired for some professional positions. Students who believe their history may interfere with their ability to complete the program of study should contact the program director.

MINIMUM GPA OR GRADE REQUIREMENTS

All courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

Core Computer and Information Systems program courses (CIS) are all offered two to three quarters each academic year. All CIS elective courses are offered one to two quarters an academic year. Planning ahead is important. Students may take non-program support courses any term to build skills related to prerequisites. Students receiving federal financial aid are encouraged to speak with the financial aid advisor.

PROGRAM STANDARDS

Students must maintain a minimum 2.0 GPA while enrolled; students who do not meet this standard may be dismissed from the program.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

While there are none currently required, various professional organizations offer certification that may enhance placement opportunities.

TRANSFER INFORMATION

This degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM REQUIREMENTS

Foundational Skills

Communication

BA 214	Business Communications	3-4
or SP 111	Fundamentals of Public Speaking	
or WR 122	Argument, Research and Multimodal Composition	
or WR 227	Technical Writing	
WR 121	Academic Composition	4
Mathematic	cs .	
MTH 085	Technical Math I	3-4
(or higher)		
or BA 104	Business Math	
Human Rela	ations	
Human Relat	ions approved course	3-4

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COMPUTER AND INFORMATION SYSTEMS (CIS) (continued)

Associate of Applied Science (AAS) Degree 94-100 credits

General Educ	cation Requirements	
Choose two cou	urses from the following list and/or from the larger	
Discipline Studi	ies list (except CS/CIS prefix courses):	
BA 101	Introduction to Business	4
BA 111	Applied Accounting I	3
BA 112	Applied Accounting II	3
BA 113	Applied Accounting III	3
BA 177	Payroll Accounting	3
BA 178	Customer Service	3
BA 203	Global Business	3
BA 206	Management Fundamentals I	4
BA 207	Management Fundamentals II	4
BA 211	Financial Accounting I	4
BA 212	Financial Accounting II	4
BA 213	Managerial Accounting	4
BA 217	Accounting Fundamentals	3
BA 218	Personal Finance	3
BA 220	Business Analysis and Budgeting	4
BA 222	Business Finance	3
BA 223	Marketing Principles I	4
BA 224	Human Resources Management	4
BA 226	Business Law I	4
BA 228	Computer Accounting Applications	3
BA 229	QuickBooks	3
BA 239	Marketing Principles II	4
BA 249	Retailing	4
BA 250	Entrepreneurship	4
BA 286	Managing Business Processes	4
Foundation C	Courses	
CIS 120	Computer Concepts	4
CIS 122	Introduction to Programming	4
CIS 131	Software Applications	4
CIS 135DB	Database Theory/SQL	4
CIS 140	A+ Essentials I	4
CIS 145	A+ Essentials II	4
CIS 178	Internet in Depth	4
CIS 179	Networking Essentials	4
CIS 195	Web Development I	4
CIS 244	Information System Analysis	4
CIS 279WC	Windows Client	4
CIS 297	CIS Professional Capstone	4

GENERAL CIS AAS DEGREE (WITH NO OPTION)

Select a minimum of 27 credits with a CIS or CS prefix numbered 100 or higher. This choice provides the greatest flexibility in completing degree requirements.

For a CIS AAS degree with a specific option, select a minimum of 27 credits from one of the following four CIS options.

COMPUTER AIDED DRAFTING OPTION (28 CREDITS)

Cho	ose a minir	num of 28 credits from:	
CIS	125A1	AutoCAD 1	4
CIS	125A2	AutoCAD 2	4
CIS	135A1	AutoDESK Revit 1	4
CIS	135A2	AutoDESK Revit 2	4
CIS	135C1	AutoCAD Civil 3D	4
CIS	135\$1	Solidworks 1	4
CIS	135S2	Solidworks 2	4

DESKTOP SUPPORT OPTION (27 CREDITS)

Choose a minimum of 27 credits from:			
BA 101	Introduction to Business	4	
BA 178	Customer Service	3	
BA 223	Marketing Principles I	4	
CIS 125A	Access	4	
CIS 125E	Excel	4	
CIS 125G	Photoshop	4	
or CIS 125V	Visio		
CIS 197	CMS Web Development WordPress	4	
CIS 235	IT for Business	4	
CIS 280	Co-op Work Experience CIS	1-3	
CIS 295	Web Development II	4	

NETWORKING OPTION (27 CREDITS)

Choose a mir	nimum of 2/ credits from:	
CIS 151C	Cisco Introduction to Networks	4
CIS 152C	Cisco Routing and Switching	4
CIS 154C	Cisco Scaling and Connecting Networks	4
CIS 279L	Linux+	4
CIS 279SC	Windows Server Configuration	4
CIS 279SE	Security+	4
CIS 279SM	Windows Server Management	4
CIS 279SS	Windows Server Services	4
CIS 280	Co-op Work Experience CIS	1-3
CIS 284	CCNA Security	4
CIS 284EH	Ethical Hacking	4

WEB DEVELOPMENT/DATABASE OPTION (27 CREDITS)

Choose a minimum of 27 credits from:			
CIS 125G	Photoshop	4	
or CIS 125I	Adobe Illustrator		
CIS 125WA	Web Animation	4	
CIS 133JS	Introduction to JavaScript	4	
CIS 133P	Introduction to PHP	4	
CIS 197	CMS Web Development WordPress	4	
CIS 233P	Web Programming	4	
CIS 280	Co-op Work Experience CIS	1-3	
CIS 295	Web Development II	4	

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COMPUTER AND INFORMATION SYSTEMS

COMPUTER AND INFORMATION SYSTEMS

COMPUTER AIDED DRAFTING

Certificate of Completion – 46-48 credits

Certificate of Completion – 46-48 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Computer and Information Systems

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs: Materials (8-32 GB usb/flash drive, basic office supplies, notebooks) \$100.

Strongly recommended, but not required

A home or laptop computer capable of running the latest version of the Windows operating system and the latest version of Microsoft Office, \$600. Contact program instructors for specifics.

PROGRAM PREPARATION AND RECOMMENDED **PREREQUISITES**

Recommended prior to entry in program (CIS) courses

- High school diploma or GED
- Minimum placement scores resulting in WR 121 placement or completion of WR 065 and/or WR 095 ("C" or better)
- Minimum placement scores resulting in MTH 085 placement or completion of MTH 020 and/or MTH 060 equivalent
- Basic computer competency (or CIS 010 and CIS 070)

MINIMUM GPA OR GRADE REQUIREMENTS

All courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

There are none currently required.

CERTIFICATE REQUIREMENTS

Human Relat	tions approved course, see page 41	3-4
CIS 120	Computer Concepts	4
CIS 122	Introduction to Programming	4
CIS 131	Software Applications	4
CIS 135DB	Database Theory/SQL	4
CIS 140	A+ Essentials I	4
CIS 145	A+ Essentials II	4
CIS 178	Internet in Depth	4
CIS 179	Networking Essentials	4
CIS 195	Web Development I	4
MTH 085	Technical Math I	3-4
(or higher)		
or BA 104	Business Math	
WR 121	Academic Composition	4

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Computer Aided Drafting (CAD)

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs: Materials (8-32 GB usb/flash drive, basic office supplies, notebooks) \$100.

Strongly recommended, but not required

A home or laptop computer capable of running the latest version of the Windows operating system and the latest version of Microsoft Office, \$600. Contact program instructors for specifics.

PROGRAM PREPARATION AND RECOMMENDED **PREREQUISITES**

Recommended prior to entry in program (CIS) courses

- High school diploma or GED
- Minimum placement scores resulting in WR 121 placement or completion of WR 065 and/or WR 095 ("C" or better)
- Minimum placement scores resulting in MTH 085 placement or completion of MTH 020 and/or MTH 060 equivalent
- Basic computer competency (or CIS 010 and CIS 070)

MINIMUM GPA OR GRADE REQUIREMENTS

All courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

There are none currently required.

CERTIFICATE REQUIREMENTS

Human Rela	tions approved course, see page 41	3-4
CIS 120	Computer Concepts	4
CIS 125A1	AutoCAD 1	4
CIS 125A2	AutoCAD 2	4
CIS 125V	Visio	4
CIS 135A1	AutoDESK Revit 1	4
CIS 135A2	AutoDESK Revit 2	4
CIS 135C1	AutoCAD Civil 3D	4
CIS 135S1	SolidWorks 1	4
CIS 135S2	SolidWorks 2	4
MTH 085	Technical Math I	3-4
(or higher)		
or BA 104	Business Math	
WR 121	Academic Composition	4

Program Descriptions

COMPUTER SCIENCE (CS)

Associate of Science Oregon Transfer (ASOT) Degree 90 credits

3

Any student who earns the Associate of Science/Oregon Transfer-Computer Science degree on their official Oregon college transcript will have met the lower division general education requirements of baccalaureate degree programs of any Oregon public university. Students transferring under the ASOT/CS agreement will have junior status for registration purposes. GPA and course requirements for the computer science major are NOT guaranteed to have been satisfied with this degree, though the degree provides general guidelines. Students are encouraged to refer to the catalog of the specific university to which they plan to transfer to ensure accuracy of academic planning. The ASOT/CS degree was created in 2013-14 through collaboration between members of the Oregon Council of Computer Chairs (OCCC) which includes Oregon community college faculty and administration and Oregon public university computer science chairs and faculty.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

All courses must be completed with a grade of "C" or better.

Writing

WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	

WR 227 is recommended because it meets additional requirements in some CS bachelor's programs.

Oral Communication

SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 251 (or higher)	'	4

Health (3 credits with HHP prefix) HHP activity courses (1 credit each) are not to be duplicated

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Letters	
At least three (3) courses from at least two (2) prefixes.	

Social Science 12-16

At least four (4) courses from at least two (2) prefixes.

Science/Math/Computer Science 9-15

Choose three (3) science courses designated as lab science courses from the Discipline Studies list.

MTH 252 Calculus II

AS PROGRAM REQUIREMENTS

CS 160	Computer Science Orientation	4
CS 161	Computer Science I	4
CS 162	Computer Science II	4
CS 260	Data Structures	4
		-

ELECTIVES

Choose enough electives to reach a minimum total of 90 overall degree credits. Elective credits must number 100 or above with a maximum of 12 CTE credits. Students are encouraged to plan these credits carefully in consultation with university-specific CS program requirements. A current guide for university-specific, lower division CS requirements is located at occcwiki.org.

ADVISING NOTES

Oregon State University – Cascades campus offers a major in Computer Science, Applied Option: Web & Mobile Web Software Development. Students are recommended to reference current degree requirements including required courses and GPA. At the time of this publication, the following courses are recommended in the first 90 credits: COCC courses MTH 231, BA 250, BA 217; OSU courses CS 271, CS 275.

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CRIMINAL JUSTICE – JUVENILE CORRECTIONS

Statewide Certificate 50-54 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Juvenile Corrections (Statewide Certificate)

PROGRAM DESCRIPTION

The statewide one-year certificate program with a concentration in juvenile corrections is specifically designed for individuals who want to work directly with juvenile offenders in various settings. These settings may include Oregon Youth Authority (OYA) as well as other public, private and nonprofit agencies/programs. A criminal background check is required to complete the one-year certificate or the two-year degree. The criminal background check is also a requirement for any job in the criminal justice field.

COST OF PROGRAM

Standard tuition, student fees and textbooks.

MINIMUM GPA OR GRADE REQUIREMENTS

All general education/foundational skills and any course with a CJ prefix must be completed with a grade of "C" or better.

REGISTRATION INFORMATION

Students may begin the Criminal Justice program in any term.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

Most agencies in the criminal justice field will require a background check and most likely a physical abilities test. Each agency may have different requirements at local, state and federal levels.

TRANSFER INFORMATION

This certificate/degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM REQUIREMENTS

CIS 120	Computer Concepts	0-4
or Computer	Competency Test	
MTH 065	Algebra II	4
WR 121	Academic Composition	4
Required Su	upport Courses	
CJ 100	Survey of the Criminal Justice System	3
CJ 101	Introduction to Criminology	4
CJ 201	Introduction to Juvenile Justice	3
CJ 230	Juvenile Corrections	3
CJ 280	Co-op Work Experience	2
HS 205	Youth and Addictions	3
PSY 201	Mind and Brain	4
PSY 202	Mind and Society	4
PSY 215	Developmental Psychology	4
PSY 219	Abnormal Psychology	4
PSY 233	Psychology of Violence and Aggression	4
SOC 201	Introduction to Sociology	4





CRIMINAL JUSTICE

Associate of Applied Science (AAS) Degree 93 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Criminal Justice

PROGRAM DESCRIPTION

Criminal Justice is a growing profession in Oregon and is expected to grow faster than the labor market on average into the foreseeable future. Job openings may call for a high school diploma, an associate degree or a bachelor's degree. COCC's AAS in Criminal Justice program prepares students to begin a criminal justice career upon graduation.

COCC offers students four options within the criminal justice program.

COST OF PROGRAM

Standard tuition, student fees and textbooks.

MINIMUM GPA OR GRADE REQUIREMENTS

All foundational skills (Math, Writing and Interpersonal Communication) and program requirement courses must be completed with a "C" grade or better.

REGISTRATION INFORMATION

Students may begin the Criminal Justice program in any term.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

Most agencies in the criminal justice field will require a background check and most likely a physical abilities test. Each agency has different requirements at local, state and federal levels.

TRANSFER INFORMATION

MTH 020

This degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM COURSE REQUIREMENTS Pre Algebra

(or higher)		
SP 218	Interpersonal Communication	3
WR 121	Academic Composition	4
Program Reg	quirements ¹	
CJ 100	Survey of the Criminal Justice System	3
CJ 101	Introduction to Criminology	4
CJ 120	Judicial Process	3
CJ 153	Ethical Issues in Criminal Justice	3
CJ 201	Introduction to Juvenile Justice	3
CJ 243	Drugs and Crime in Society	3
CJ 253	Corrections	4
CJ 280	Co-op Work Experience Criminal Justice ²	2
CJ Electives ³		15-18
Other Requir	red Courses	
ED 265	Children at Risk	3
Health and Hu	uman Performance ⁴	3-4
PSY 233	Psychology of Violence and Aggression	4
Two additional	8	
SOC 201	Introduction to Sociology	4
Any Social Scie	4	
Discipline Stud	lies course (no CJ prefix)	3-5

ELECTIVES

Students should take enough electives to reach the necessary 93 minimum credit requirement from the following:

Any class from the Discipline Studies list.

Any 100-level or higher class from the following subject areas, or with approval from the CJ program director:

- Addictions Studies (HS prefix)
- ART 161, ART 162, ART 163, ART 261, ART 265
- Computer and Information Systems
- Criminal Justice
- Emergency Medical Services (EMT)
- World Languages
- Geographic Information Systems
- Health and Human Performance (no repeats of activity courses)
- Military Science
- Speech

4

• Study Skills (HD prefix)

FOOTNOTES

- Must be completed with "C" grade or better.
- ² CJ 280 is a program requirement. CJ 281 and CJ 282 may be taken as electives after successful completion of CJ 280.
- ³ Select from CJ 110, CJ 123, CJ 188, CJ 199, CJ 204, CJ 207, CJ 210, CJ 211, CJ 214, CJ 220, CJ 222, CJ 230, CJ 234, CJ 243, CJ 280, CJ 153, CJ 281 and CJ 282 or EMT 195.
- ⁴ HHP: 3-4 credits of health are required. This can be any HHP prefix. HHP Health courses are recommended. (HHP 252A, HHP 231, HHP 242, HHP 258, HHP 266, HHP 295 or any three credits of activity courses—no repeats.)

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CRIMINAL JUSTICE

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met.

Students should work closely with an advisor to select the best degree option based on long-term career goals and to review specific transfer requirements. Students are encouraged to work closely with their advisor to decide which option is most appropriate. A criminal history may affect employment opportunities.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	nication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher)	Math in Society	4
Recommend: MTH 111	College Algebra	
•	dits with HHP prefix) ourses (1 credit each) are not to be duplicated	3

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Letters	9-12
At least three (3) courses from at least two (2) prefixes.	
Social Science	12-16
At least four (4) courses from at least two (2) prefixes.	

Science/Math/Computer Science

12-20

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

ELECTIVES

Choose any college-level course that brings the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education (CTE) courses designated by COCC as acceptable.

CJ 100	Survey of the Criminal Justice System	3
CJ 101	Introduction to Criminology	4
CJ 120	Judicial Process	3
CJ 201	Introduction to Juvenile Justice	3
CJ 253	Corrections	4
CJ 280	Cooperative Work Experience	2

ADVISING NOTES

If transferring to Oregon State University: HHP 295 and WR 227 are recommended.

If transferring to Portland State University: CJ 101, CJ 110 and CJ 253 are recommended.

If transferring to Southern Oregon University: CJ 210 and CJ 211 are recommended.

If transferring to Western Oregon University: CJ 100 is recommended.

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DENTAL ASSISTING

Certificate of Completion 71-76 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Dental Assisting

PROGRAM DESCRIPTION

The Dental Assisting program trains individuals in a broad range of clinical and administrative skills such as preparing patients for dental exams and treatment, assisting a dentist with dental procedures, taking dental radiographs, scheduling and appointment procedures, maintenance of medical records, performing basic front office skills, professional, communication and public relations skills. The program is accredited by the Commission on Dental Accreditation of the American Dental Association. Graduates are prepared for the Dental Assisting National Board examinations and the Oregon Certification in Expanded Functions.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

- Program fee of \$167 per term (or \$501 total for the year) while enrolled in the DA cohort
- Materials (scrubs with COCC Dental Assisting patch, goggles) \$50
- National Board exams \$1,000 total
- Fees associated with immunizations \$220 and CPR card \$20-\$60
- Background check \$55
- Drug screen \$45
- Immunization tracking \$10

PROGRAM PREREQUISITE COURSES

- All prerequisite courses must be passed with a "C" or better to register for the Dental Assisting program. See: cocc.edu/dental-assisting/ dental-assisting-program-requirements
- CIS 120 or Computer Competency Test (0-4 credits)
- HHP 252 First Aid & HCP CPR (3 credits)
- MTH 095 Intermediate Algebra or higher (4 credits)
 - Recommended pathway MTH 010, MTH 058, MTH 098
- SP 218 Interpersonal Communication (3 credits)
- PSY 101 or PSY 201 or PSY 215 or PSY 216 (3-4 credits)
- WR 121 Academic Composition (4 credits)
- A minimum of 12 hours of observation in a dental office. See the Dental Assisting website for more information: cocc.edu/dentalassisting/dental-assisting-registration-instructions.

PROGRAM PRE-ENTRY REQUIREMENTS DUE PRIOR TO FALL TERM

Documents required for entry into the Dental Assisting program must be submitted after students register for the program. A letter of instruction is emailed to all registered and waitlisted students at the end of Spring term with an assigned documentation due date prior to Fall term. Failure to submit the required paperwork by the assigned date will result in administrative withdrawal from the program. The following are required prior to entry into the Dental Assisting program:

- A high school diploma, a high school transcript noting successful graduation, or a GED
- Must be 18 years of age
- Completion of all prerequisite courses with a grade of "C" or better
- Criminal history check, with vendor chosen by COCC, as a condition of acceptance into the program
 - Students with criminal convictions noted on the DHS permanent, 10-year or 5-year review list will be disqualified from attending the Dental Assisting program until their criminal record has been cleared. For a list of disqualifying crimes, see arcweb.sos.state.or.us/ pages/rules/oars_400/oar_407/407_007.html
- 10 panel drug screen completed as a condition of acceptance into the program
 - Students must complete a 10 panel urine drug screen, with vendor chosen by COCC, prior to entry into the Dental Assisting program

- With the exception of certain prescribed medications, students with a
 positive drug screen, which prevents them from attending clinical, will
 be disqualified from entering the program. Please refer to the Dental
 Assisting Handbook/website for more detailed information: cocc.edu/
 dental-assisting/immunizations-and-background-check
- Documentation of current immunizations:
 - TB Blood Titer, MMR, Hep B, Varicella, Tdap, Flu
- American Heart Association or American Red Cross "Basic Life Support for Healthcare Providers" CPR

REGISTRATION INFORMATION

Program (DA) courses begin once per year in Fall term. Students wishing to register in the Fall Dental Assisting cohort must meet the basic prerequisite competencies and may register according to seat availability on a first-come, first-served basis, determined by the priority registration schedule. Students may view the priority registration schedule at cocc. edu/registration-home. After successful registration into the Dental Assisting program, DA courses must be taken together and sequentially. Please see the Dental Assisting program website: cocc.edu/dental-assisting for more information or contact the program director and/or the CAP Center.

PROGRAM STANDARDS

All program courses must be passed with a "C" or better. Once a student begins the DA cohort they must enroll in all DA courses offered each term. In order to progress to the next term, the student must complete all DA courses with a "C" or better.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

- The Dental Assisting program is accredited by the Commission on Dental Accreditation (CODA). This accreditation requires students to complete 300 hours of practicum (internship) in a minimum of two different dental offices. Some dental offices require students to successfully complete a criminal background check prior to participating in a practicum.
- In Oregon it is not necessary to be a Certified Dental Assistant (CDA) or an Expanded Functions Dental Assistant (EFDA) to work as a dental assistant. However, opportunities for advancement in the occupation are limited without these two certifications.
- Dental Assisting students can earn a CDA certificate with the successful completion of these four Dental Assisting National Board (DANB) exams: Infection Control Exam (ICE), Radiation Health and Safety Exam (RHS), General Chairside Exam (GC) and Oregon Clinical Radiologic Proficiency Exam (CRP).
- Dental Assisting students can become an EFDA by: obtaining a certificate of completion from COCC, passing the written RHS exam, completing the proficiency exam in Dental Radiology and submitting the required fee.
- In Oregon, a dental assistant must have a Radiology Certificate to take dental radiographs. This certificate is obtained by passing the RHS written exam and completing the proficiency exam, which includes submitting a diagnostic full set of radiographs.
- An EFDA in Oregon can also be certified to perform the following functions by taking courses approved by the Oregon Board of Dentistry: place dental sealants, pack retraction cords, place dental restorations (alloy and composite) and reline dentures.
- Prior to taking any DANB exams, students must answer background information questions concerning felony convictions, regulatory board discipline, ethical violations at an educational institution and mental competence. For more information, see danb.org.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

DENTAL ASSISTING (continued) Certificate of Completion

71-76 credits

PROGRAM COURSE REQUIREMENTS

General Educ CIS 120	cation/Foundational Requirements Computer Concepts	0-4
	ompetency Test	
HHP 252	First Aid & HCP CPR	3
MTH 095	Intermediate Algebra	4
(or higher)		
Recommended	pathway MTH 010, MTH 058, MTH 098	
PSY 101	Applied Psychology	3-4
or PSY 201	Mind and Brain	
or PSY 215	Developmental Psychology	
or PSY 216	Social Psychology	
SP 218	Interpersonal Communication	3
WR 121	Academic Composition	4
CORE REQU	IREMENTS	
Fall		
DA 110	Basic Dental Assisting	4
DA 115	Dental Science	5
DA 125	Dental Infection Control	3
DA 134	Dental Radiology I	3
DA 145	Preventive Dentistry	3
Winter		
DA 120	Advanced Dental Assisting	4
DA 130	Dental Materials I	4
DA 135	Dental Radiology II	4
DA 151	Dental Computing	2
DA 181	Dental Seminar I	1
DA 190	Dental Assisting Practicum I	2
Spring		
DA 131	Dental Materials II	4
DA 150	Introduction to Dental Office Management	3
DA 160	Oral Medicine	3
DA 182	Dental Seminar II	1
DA 191	Dental Assisting Practicum II	8





EARLY CHILDHOOD EDUCATION

Associate of Applied Science (AAS) Degree 90-97 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Early Childhood Education

PROGRAM DESCRIPTION

At COCC, the Early Childhood Education (ECE) program provides students who have an interest in early childhood, including the early primary elementary years, with a foundation in the theoretical, social, historical and legal aspects of early childhood programming. The COCC associate degree programs in early childhood education provide the foundational knowledge, field experiences and common skills and strategies to prepare students for multiple roles within the field of early childhood education. While the program prepares students for direct work with young children in classroom and educational settings, many associate degree-seeking students have additional professional goals (many requiring further education) including but not limited to:

- Early childhood educator roles such as an infant/toddler, preschool/ pre-kindergarten, or K-3 grade classroom teacher, family child care provider, Head Start teacher, or paraprofessional in public schools, early interventionist;
- Home-family support roles such as family advocate, child protective services worker, or parent educator; or
- Professional support roles such as early childhood administrator in a child care or Head Start program, staff trainer, peer/program mentor, or advocate at the community, state or national level.

The Associate of Applied Science (AAS) degree prepares students with a strong emphasis in the theories, curriculum goals and developmentally appropriate teaching and guidance strategies necessary to lead an early childhood classroom program or work as a paraprofessional in the public schools.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following program costs: background check (\$3-\$70), as well as cost of mileage to and from field placement/practicum sites.

PROGRAM PREPARATION AND PREREQUISITES

The ECE program requires a background check through the Oregon Employment Office-Child Care Division. Some field placement sites may require documentation of current immunizations.

MINIMUM GPA OR GRADE REQUIREMENTS

All courses must be completed with a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

It is recommended (but not required) that students take ED 140 before other Early Childhood Education courses.

PROGRAM STANDARDS

In addition to COCC policies, including students' rights and responsibilities, described in this catalog and detailed in the ECE syllabi, students in COCC's ECE program are expected to follow the policies specific to courses:

- · Complete and pass a criminal background check;
- · Adhere to the field placement contract; and
- Adhere to confidentiality, health-related and no-smoking policies as they pertain to field placement settings

Refer to the COCC Early Childhood Student Handbook (cocc.edu/early-childhood-education) for an explanation of each of the above policies.

TRANSFER INFORMATION

This degree is designed for students planning to enter their chosen career upon graduation. Often, only selected credits are considered transferrable to public or private baccalaureate institutions.

The AAS degree is fully articulated with Southern Oregon University's Early Childhood Development program and allows students to transfer directly as juniors and to become admitted into the Early Childhood Development program at Southern Oregon University (SOU) with no loss of credits to pursue a bachelor's degree. The program offers an excellent balance of early childhood and general education courses that support advanced study in the field of early childhood development.

Students should contact the SOU School of Education early in the beginning of their AAS in Early Childhood Education 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, their courses will be evaluated individually toward the general education requirements in effect at SOU. For more information, visit sou.edu and search "COCC" to access the articulation agreement.

PROGRAM COURSE REQUIREMENTS

Academic Composition

SUPPORT COURSES

Communication

WR 121

Mathematics MTH 060 (or higher)	Algebra I	4
Health HHP 252A or HHP activity	Fitness/First Aid courses (1 credit each) are not to be duplicated	3-4
Human Relatio	ions ns approved course	3
CORE REQUI	IREMENTS	
ED 140	Introduction to Early Childhood Education	4
ED 150	Environments and Curriculum in ECE	4
ED 151	Observation and Guidance in ECE Learning	
ED 152	Family, School and Community Relationships in ECE	4 3 3
ED 172	Language and Literacy in Early Childhood Education	3
ED 173	Movement, Music and the Arts in Early Childhood Education	3
ED 174	Math, Science and Technology in Early Childhood Education	3
ED 219	Multicultural Issues in Education Settings in Early Childhood Education	3
ED 250	Advanced Curriculum Development and Teaching Methods in ECE	4
ED 261/262	Practicum I and II	6
ED 265	Children at Risk	6 3
ED 269	Exceptional Children in Early Childhood Education	3

EARLY CHILDHOOD EDUCATION (continued)

Associate of Applied Science (AAS) Degree 90-97 credits

	UIRED COURSES	
Discipline Stud	lies courses 7 (mi	nimum)
CIS 120	Computer Concepts	0-4
or Computer C	Competency Test	
ENG 221	Introduction to Children's Literature	3-4
or ED 112	Children's Literature & Curriculum	
FN 225	Human Nutrition	4
PSY 201	Mind and Brain	4
PSY 215	Developmental Psychology	4
SOC 201	Introduction to Sociology	4
WR 122	Argument, Research and Multimodal Composition	n 4
or WR 227	Technical Writing	
Choose one of	the following:	3-4
ED 216	Purpose Structure & Function of Education in a De	emocracy
or ED 176	Supporting Social, Emotional and Mental Health	in Early
	Childhood Education	
or ED 235	Teaching and Learning in a Digital Age	
or ED 253	Learning Across the Lifespan	
or ED 290	English Language Development in the Primary C	lassroom
or GEOG 272	Geography for Teachers	
or LIB 127	Information Research Skills	





EARLY CHILDHOOD EDUCATION

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

3

Courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	nication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher) or MTH 211-2	Math in Society 13 Fundamentals of Elementary Math I-III	4-12

GENERAL EDUCATION/DISCIPLINE STUDIES

HHP activity courses (1 credit each) are not to be duplicated

Health (3 credits with HHP prefix)

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

3	,	
Arts and Letters		9-12
At least three (3) courses from at	least two (2) prefixes.	
Social Science		12-16

At least four (4) courses from at least two (2) prefixes.

Science/Math/Computer Science

12-20 At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

Note: For students intending to transfer to Oregon State University -Cascades program in Human Development and Family Sciences (HDFS), please meet with an advisor in Early Childhood Education early in your course of study.

RECOMMENDED PROGRAM ELECTIVES

To provide the best preparation for upper-division courses, particularly at OSU, Cascades, students should work with their advisor to select the most applicable electives from the following:

ED 140	Introduction to Early Childhood Education	4
ED 150	Environments and Curriculum in ECE	4
ED 151	Observation and Guidance of Young	
	Children's Learning	4
ED 152	Family, School and Community Relationships in ECE	3
ED 172	Language and Literacy in Early Childhood Education	3
ED 173	Movement, Music and the Arts in	
	Early Childhood Education	3
ED 174	Math, Science and Technology in	
	Early Childhood Education	3
ED 216	Structure and Function of Education	
	in a Democracy ¹	3
ED 219	Multicultural Issues in Education Settings ¹	3
ED 250	Advanced Curriculum Development and	
	Teaching Methods in Early Childhood	4
ED 253	Learning Across the Life Span ¹	3
ED 265	Children at Risk	3
ED 290	English Language Learners	4
ENG 221	Introduction to Children's Literature	4
HHP 100	Introduction to Public Health	4
LIB 127	Information Research Skills	3
PSY 215	Developmental Psychology	4
1 ED 214 210	and 252 count toward the recommended courses for	

¹ ED 216, 219 and 253 count toward the recommended courses for students pursuing the MAT at OSU, Cascades.





EARLY CHILDHOOD EDUCATION

CHILD, FAMILY & COMMUNITY STUDIES

Certificate of Completion 37 credits

DEVELOPMENTALLY APPROPRIATE LEARNING ENVIRONMENTS

Short Term Certificate of Completion – 21 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Child, Family and Community Studies

CERTIFICATE DESCRIPTION

The CFC Studies certificate is designed to support students seeking careers in school and human service settings. The CFC Studies certificate is a step along the pathway to the AAS in Early Childhood Education. It invites students to apply theories and applications toward a broader perspective, including settings outside of school.

Students with intentions to seek higher degrees or career opportunities in settings serving children and families may use the CFC Studies Certificate to demonstrate coursework and field placement experience. Credits will apply toward the Head Start Reauthorization Act for highly qualified lead and assistant teachers and family advocates. Students considering the HDFS program through OSU may use several courses (ED 140, PSY 202, SOC 201, FN 225) to HDFS program requirements.

MINIMUM GPA OR GRADE REQUIREMENTS

All courses must be completed with a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

CERTIFICATE REQUIREMENTS

ED 140	Introduction to Early Childhood Education	4
ED 151	Observation and Guidance in ECE Learning	4
ED 152	Family, School and Community Relationships in ECE	3
ED 219	Multicultural Issues in Education Settings in	
	Early Childhood Education	3
ED 265	Children at Risk	3
FN 225	Human Nutrition	4
PSY 201	Mind and Brain	4
PSY 215	Developmental Psychology	4
SOC 201	Introduction to Sociology	4
Additional Cou	rsework from the Discipline Studies List	4

CERTIFICATE AS AWARDED ON TRANSCRIPT

Short Term Certificate of Completion in Developmentally Appropriate Learning Environments (DALE)

CERTIFICATE DESCRIPTION

The DALE certificate supports students seeking careers in early learning settings. Credits will apply toward the Head Start Reauthorization Act for highly qualified lead and assistant teachers and family advocates. Students considering the Early Childhood Development program at Southern Oregon University or the HDFS program through OSU may apply to program requirements. The DALE certificate is a step along the pathway to the AAS in Early Childhood Education and it invites students to apply theories and applications toward early learning environments.

MINIMUM GPA OR GRADE REQUIREMENTS

All courses must be completed with a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

CERTIFICATE REQUIREMENTS

Introduction to Early Childhood Education	4
Environments and Curriculum in ECE	4
Observation and Guidance in ECE	4
Families, Schools and Communities	3
om the following list:	
Children's Literature & Curriculum	3
Language & Literacy in ECE	3
Movement, Music & Arts in ECE	3
Math, Science & Tech in ECE	3
Social, Emotional & Mental Health in ECE	3
	Environments and Curriculum in ECE Observation and Guidance in ECE Families, Schools and Communities om the following list: Children's Literature & Curriculum Language & Literacy in ECE Movement, Music & Arts in ECE Math, Science & Tech in ECE

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ECONOMICS

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

Economics is the study of how society allocates its scarce resources to satisfy its many needs and wants. The discipline is divided into two general areas: microeconomics and macroeconomics. The focus of lower-division economics courses at COCC is on the choices we make in the context of microeconomics and macroeconomics. Macroeconomics studies the role of government in the economy, both in promoting social objectives and in keeping the economy healthy through fiscal and monetary policies. Microeconomics provides an understanding of consumption, production and distribution of goods and services subject to the forces of supply and demand. Additional courses within the economics program expand upon these ideas. International Economics provides an introductory survey of economic, political, social and cultural dimensions of globalization. Political Economy covers various micro and macro topics related to the United States economy from a systems and institutional perspective. This program is good preparation for careers in business, engineering, resource management or government, as well as solid training for graduate or law school.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in economics.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing		
WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	
Oral Commu	ınication	
SP 111	Fundamentals of Public Speaking	3-4
or SP 114	Argumentation and Critical Discourse	
or SP 115	Introduction to Intercultural Communication	
or SP 218	Interpersonal Communication	
or SP 219	Small Group Communication	
Mathematics	S	
MTH 105	Math in Society	4
(or higher)		
Recommend:		
MTH 111	College Algebra	
Health (3 cre	dits with HHP prefix)	3
HHP activity co	ourses (1 credit each) are not to be duplicated	

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Letters	9-12
At least four (4) courses from at least two (2) prefixes.	

Social Science 12-16

At least three (3) courses from at least two (2) prefixes.

Recommena:		
EC 201	Microeconomics	4
EC 202	Macroeconomics	4
EC 230	International Economics	4

And at least two (2) additional courses with at least one different prefix.

Science/Math/Computer Science 12-20

At least three (3) laboratory courses in biological and/or physical science. Additional math as transfer university requires.

Recommend:		
MTH 241	Calculus for Management/Social Science	4
or MTH 251	Calculus I	4
MTH 243	Introduction to Methods of Probability and Statistics I	4
and MTH 244	Introduction to Methods of Probability and Statistics II	4

ELECTIVES

Students must take enough elective courses to meet the minimum 90 credits required for the degree. This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable.

Recommend:

EC 285 Introduction to Political Economy 4

ADVISING NOTES

Students pursuing a BA should consider completing three terms of 200-level language courses at COCC. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement.

Students pursuing a BS should consider taking more math, social science and science courses. Language is not necessary for the BS degree, but would be valuable for students with a major or emphasis in international economics. For specific details, speak with an advisor.

EDUCATION

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

COCC offers lower-division coursework for students preparing to become teachers in Oregon.

In general, the Associate of Arts Oregon Transfer (AAOT) degree (see page 37 for the AAOT degree checklist) is reasonable preparation for students intending to transfer to a teacher preparation program.

In Oregon, students may achieve an initial license to teach through a bachelor's program, a post-baccalaureate program or a master's-level program. Students prepare to teach at different grade levels of authorization, depending on their background, interests and the requirements of specific programs of study. Students may prepare for a transfer degree in Early Childhood Education through COCC as the initial preparation for early childhood education as well as elementary grade-level teaching. However, it is important to work closely with an advisor to ensure that the degree contains the necessary prerequisite coursework for the desired licensure program.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

There are several options for completing a teaching licensure program in Central Oregon.

Students should consult with an education advisor as early as possible to discuss program options and determine which courses fulfill transfer requirements to different institutions and different levels of licensure.

For more information on teacher preparation programs in Oregon, see the Oregon Teacher Standard and Practices Commission website at oregon.gov/TSPC. Students may also wish to review COCC's advising guide for teacher education at cocc.edu/cap/advising.





EDUCATION – ELEMENTARY

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The following is a suggested course of study for students interested in pursuing a bachelor's degree in education designed for elementary licensure.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing WR 121*	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	ınication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher)	Math in Society	4
Recommend: MTH 211	Fundamentals of Elementary Mathematics I	
	dits with HHP prefix) ourses (1 credit each) are not to be duplicated	3
Recommend: HHP 295*	Health and Fitness	3

GENERAL EDUCATION/DISCIPLINE STUDIES

Human Nutrition

FN 225

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Let At least three (Recommend:	ters (3) courses from at least two (2) prefixes.	9-12
ED 112	Children's Literature & Curriculum	3
Social Science		12-16
. *	1) courses from at least two (2) prefixes.	
Recommend:		
ED 152	Family, School, and Community Relationships in Early Childhood Education	3
or SOC 222	Sociology of Family	
ED 219	Multicultural Issues in Education Settings	3
PSY 201	Mind and Brain	4
SOC 201*	Introduction to Sociology	4
Science/Math/Computer Science 12-20 At least four (4) courses from at least two (2) prefixes, including at least three (3) laboratory courses in biological and/or physical science. Recommend:		

ELECTIVES

Students must take enough elective courses to meet the minimum 90 credits required for the degree. This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable.

Recommend	
(ecommend	١.

CIS 120	Computer Concepts	4
ED 172	Language and Literacy in Early Childhood Education	3
ED 174	Math, Science, and Technology in Early Childhood Education	3
ED 176	Supporting Social, Emotional and Mental Health in Early Childhood Education	3
ED 216	Purpose, Structure and Function of Education in a Democracy	3
ED 235	Teaching and Learning in a Digital Age	3
ED 253	Learning Across the Lifespan	3
ED 265	Children at Risk	3
ED 269	Exceptionl Children in Early Childhood Education	3
ED 290	English Language Development in the	
	Primary Classroom	4
HST 201	Early America	4
HST 202	19th Century United States	4
HST 203	20th Century United States	4
MTH 212*	Fundamentals of Elementary Mathematics II	4
MTH 213*	Fundamentals of Elementary Mathematics III	4

^{*}Courses with an asterisk are intended to align with requirements for OSU's Education major. Students should confirm current major requirements at OSU.

ADVISING NOTES

Students pursuing a BA should consider completing three terms of 200-level language courses at COCC. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement.

Students pursuing a BS should consider taking more math, social science and science courses. Language is not necessary for the BS degree, but would be valuable for students with a major or emphasis in international economics. For specific details, speak with an advisor.

EDUCATION – SECONDARY

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

In Oregon, students are eligible to apply for a preliminary teaching license after completing an approved teacher preparation program (bachelor's, post-baccalaureate, or master's level), passing the Oregon Educator Licensure Assessments (ORELA) and completing student teaching. Students interested in teaching a high school subject area will need to be experts in the content area they intend to teach and will be required to pass a subject matter exam. Passing the exam allows for the necessary "endorsement" (the subject/s which a teacher is approved to teach). Commonly a student will complete a bachelor's degree in the subject area they intend to teach to build foundational knowledge, followed by or in conjunction with an approved teacher education program.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing		4
WR 121 WR 122 or WR 227	Academic Composition Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	unication	
SP 111	Fundamentals of Public Speaking	3-4
or SP 114	Argumentation and Critical Discourse	
or SP 115	Introduction to Intercultural Communication	
or SP 218	Interpersonal Communication	
or SP 219	Small Group Communication	
Mathematics	S	
MTH 105	Math in Society	4
(or higher)	·	
Recommend:		
MTH 111	College Algebra	
Recommend:		
*Dependent o	n subject area student intends to teach.	
Health (3 cre	dits with HHP prefix)	3
HHP activity co	ourses (1 credit each) are not to be duplicated	
Recommend:		
HHP 295*	Health and Fitness	3
GENERAL EI	DUCATION/DISCIPLINE STUDIES	

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

rts and Letters 9-12
ats and Letters

At least three (3) courses from at least two (2) prefixes. Recommend:

*Dependent on subject area student intends to teach.

Social Science 12-16

At least four (4) courses from at least two (2) prefixes. Recommend:

Science/Math/Computer Science

12-20

At least four (4) courses from at least two (2) prefixes, including at least three (3) laboratory courses in biological and/or physical science. Recommend:

*Dependent on subject area student intends to teach.

ELECTIVES

Students must take enough elective courses to meet the minimum 90 credits required for the degree. This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable.

Recommend:

ED 210	Practicum in Teaching	3
ED 216	Purpose, Structure and Function of Education	
	in a Democracy	3
ED 219	Multicultural Issues in Education Settings	3
ED 253	Learning Across the Lifespan	3

ADVISING NOTES

*Students who plan to major in the subject area they intend to teach should refer to the page in the catalog that aligns with that subject area (Example: Math, Biology, Literature, History, etc.).

Students pursuing a BA should consider completing three terms of 200-level language courses at COCC. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement.

Students pursuing a BS should consider taking more math, social science and science courses. Language is not necessary for the BS degree, but would be valuable for students with a major or emphasis in international economics. For specific details, speak with an advisor.

Helpful Resources:

Oregon Department of Education teachin.oregon.gov/en/become-a-teacher-in-oregon

Oregon Teacher Standards and Practices Commission (TSPC) oregon.gov/TSPC/Pages/index.aspx

Oregon Educator Licensure Assessments (ORELA) orela.nesinc.com

^{*}Dependent on subject area student intends to teach.

Program Descriptions

ENGINEERING

Associate of Science (AS) Degree 90 credits

COCC offers freshman and sophomore core science, engineering and general education courses needed for most engineering majors. Students earning an engineering degree choose from among the many branches of engineering available, such as: civil, mechanical, electrical, chemical, computer and OSU-Cascades' energy engineering management. Certain engineering majors and branches may require additional courses not offered at COCC.

Students who wish to complete lower-division science, engineering and general education courses while at COCC may choose either the Associate of Arts Oregon Transfer degree (which allows students to transfer to an Oregon public university having met all lower-division general education requirements) or an Associate of Science (which includes the science and engineering courses and some general education, more closely mirroring a university course of study). Students should work closely with an advisor to select the best degree option and review specific transfer requirements.

GENERAL EDUCATION/ FOUNDATIONAL REQUIREMENTS

All courses must be completed with a "C" grade or better.

Writing

WR 121	Academic Composition	4
WR 227	Technical Writing	4
Oral commu	ınication	
SP 111	Fundamentals of Public Speaking	4
Mathematic	s	
MTH 251	Calculus I	4
Health		
HHP 295	Health and Fitness	2

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options.

Arts and Letters

Choose two (2) courses from the Discipline Studies list.	6-8
Social Science	
Choose two (2) courses from the Discipline Studies list.	6-8
(EC 201 is recommended)	

PROGRAM REQUIREMENTS

CH 221	General Chemistry I	5
CH 222	General Chemistry II	5
ENGR 201	Electrical Fundamentals	4
ENGR 202	Electrical Fundamentals II	4
ENGR 211	Statics	4
ENGR 212	Dynamics	4
ENGR 213	Strength of Materials	4
GE 101	Engineering Orientation	3
GE 102	Engineering Problem Solving and Technology	3
MTH 252	Calculus II	4
MTH 253	Calculus III	4
MTH 254	Vector Calculus I	4
MTH 256	Applied Differential Equations	4
PH 211	General Physics I	5
PH 212	General Physics II	5
PH 213	General Physics III	5

ELECTIVES¹

Choose enough electives to reach a minimum total of 90 overall degree credits. Elective credits must number 100 or above with a maximum of 12 CTE credits and 15 credits of CWE/HHP performance courses.

ADVISING NOTES

Elective Notes: Most engineering majors have few, if any, true electives and students must sequence courses very intentionally. The elective category should be used to tailor the program toward a specific engineering major or branch. Following are some general guidelines. We recommend students research requirements directly. Chemical: CH 223, MTH 253. Note that OSU requires a year-long sequence prior to the junior year that COCC does not offer.

Energy Engineering Management: BA 217, CS 161, EC 201, ENGR 202, ENGR 212, MTH 253.

Mechanical: CIS programming class (CIS 122, CIS 133JS, CIS 133P, CS 161, CS 162), CIS 125A1, CIS 125A2, ENGR 212, MFG 103, MFG 112, MFG 113.

Civil: ENGR 212.

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ENGLISH / LITERATURE

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

WR 242

WR 243

English majors with a solid humanities foundation and strong writing, reading, critical thinking and research skills, are sought after in many careers, including advertising, business, public administration, communication and media, computer-based information and education, software and web development, social services, government civil service, law and criminal justice, and teaching/education.

The AAOT degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in English/Literature.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

((_
Writing WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
Oral Commu	unication	
SP 111	Fundamentals of Public Speaking	3-4
or SP 114	Argumentation and Critical Discourse	
or SP 115	Introduction to Intercultural Communication	
or SP 218	Interpersonal Communication	
or SP 219	Small Group Communication	
Mathematics MTH 105 (or higher)	s Math in Society	4
Recommend:		
MTH 111	College Algebra	
•	dits with HHP prefix) ourses (1 credit each) are not to be duplicated	3
GENERAL E	DUCATION/DISCIPLINE STUDIES	

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Le	tters	9-12
At least three	(3) courses from at least two (2) prefixes.	
English/Litera	ture majors are advised to choose two courses with a	an
English prefix	in British and/or American Literature from:	
ENG 204	Survey British Literature I	4
ENG 205	Survey British Literature II	4
ENG 253	Survey American Literature I	4
ENG 254	Survey American Literature II	4
Plus one addi with a differe	itional course from the Arts and Letters Discipline Stant nt prefix.	udies list

Social Science	12-16

At least four (4) courses from at least two (2) prefixes.

Science/Math/Computer Science 12-20

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

ELECTIVES

Choose enough electives to reach the minimum of 90 credits required for the AAOT. Most Oregon and other universities require English/Literature majors to complete lower-division coursework in surveys of British and American Literature, as well as at least one course in Shakespeare; therefore English/Literature majors are encouraged to complement their

edits		
general educat	ion/Discipline Studies arts and letters courses with elect	tives
chosen from th	e following courses:	
ENG 201	Shakespeare	4
or ENG 202	Shakespeare	
ENG 204	Survey British Literature I	4
ENG 205	Survey British Literature II	4
ENG 253	Survey American Literature I	4
ENG 254	Survey American Literature II	4
	-division requirements for majors, minors and related	
	in English/Literature vary among four-year institutions.	
	tive course choices, students are advised to work closel	
	ors, consult college catalogs of the destination institution	
	vish to transfer and determine whether one or more of	the
following cours	es should be elected to fulfill their degree objectives.	
Education pro	ograms may require or recommend: Children's Literature	4
	ature and Humanities degree programs may als commend one or more courses in:	0
Western Worl		
ENG 107	Western World Literature: Ancient	4
ENG 108	Western World Literature: Middle Ages	4
ENG 109	Western World Literature: Modern	4
	World Literature (may satisfy cultural diversity requirement	t-)
HUM 210	Culture and Literature of Asia	4
HUM 211	Culture and Literature of Africa	4
HUM 212	Culture and Literature of the Americas	4
HUM 213	Culture and Literature of the Middle East	4
	Ilticulturalism (may satisfy cultural diversity requirements)	
HUM 210	Culture and Literature of Asia	4
HUM 230	Immigrant Experience in American Literature	4
HUM 240	Native American Literature and Culture	4
HUM 255	Cultural Diversity in Contemporary	
110/11/200	American Literature	4
HUM 256	Introduction to African-American Literature	4
Introductory	genre courses in Literature, Film, Popular Cultu	re
and/or Wome	en's Studies courses	16
ENG 104	Introduction to Literature: Fiction	4
ENG 105	Introduction to Literature: Drama	4
ENG 106	Introduction to Literature: Poetry	4
ENG 212	Autobiography	4
ENG 232	Topics in American Literature	4
ENG 250	Introduction to Folklore and Mythology	4
ENG 256	Folklore and U.S. Culture	4
ENG 260	Introduction to Women Writers	4
FA 101	Introduction to Film	3
FA 125	World Cinema	4
FA 257	Literature into Film	4
HUM 105	Italian Life and Culture (offered in Florence, Italy)	2
HUM 106	British Life and Culture (offered in London, England)	3
HUM 261	Popular Culture: Science Fiction	4
HUM 262	Popular Culture: The American Western	4
HUM 263	Popular Culture: Detective Stories	4
HUM 264 HUM 265	Popular Culture: Spy Thriller Popular Culture: Noir Film and Fiction	4
HUM 266	Popular Culture: Travel Literature	4
HUM 267	Popular Culture: Counterculture	4
HUM 268	Digital Games Culture	4
HUM 269	Popular Culture: Graphic Novels	4
WS 101	Women's and Gender Studies	4
Creative Writi	•	4
WR 240 WR 241	Introduction to Creative Writing: Nonfiction Introduction to Creative Writing: Fiction	4
WR 241	Introduction to Creative Writing: Poetry	4

Introduction to Creative Writing: Poetry

Introduction to Creative Writing: Scriptwriting

Program Descriptions

EXERCISE SCIENCE / KINESIOLOGY

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The AAOT degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With the appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and review specific transfer requirements. The following is a suggested course of study for students interested in pursuing a bachelor's degree in Exercise Science/Kinesiology.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

		_
Writing WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	ınication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher)	Math in Society	4
Recommend: MTH 111	College Algebra	
Health (3 cre	dits with HHP prefix)	3

GENERAL EDUCATION/DISCIPLINE STUDIES

HHP activity courses (1 credit each) are not to be duplicated

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

designated or	n the list as a cultural literacy course.		
Arts and Let	tters	9-12	
At least three	(3) courses from at least two (2) prefixes.		
Social Scien	ice	12-16	
At least four (4) courses from at least two (2) prefixes.		
Recommend:			
HHP 100	Introduction to Public Health	4	
HHP 270	Sport & Exercise Psychology	3	
PSY 201	Mind and Brain	4	
SOC 201	Introduction to Sociology	4	
Science/Math/Computer Science 12-20			
At least four (4) courses from at least two (2) prefixes including	g at	
least three (3) laboratory courses in biological and/or physical science.			
Recommend:			

Human Anatomy and Physiology I

Human Anatomy and Physiology II

Human Anatomy and Physiology III

Exercise Physiology

ELECTIVES

Minimum of 30-31 credits. Choose enough elective credits to reach a minimum total of 90 overall degree credits. Elective classes must be numbered 100 or above (maximum of 12 credits of Career and Technical Education (CTE). The following is a list of recommended electives:

HHP 185 Various activity classes 1 HHP 212A CPR-AHA Health Care Providers 1 HHP 248 Health Psychology 4 HHP 259 Care and Prevention of Athletic Injuries 3 HHP 260 Anatomical Kinesiology 4 HHP 262 Exercise Testing & Prescription 3 HHP 266 Nutrition for Health 3 or HHP 240 Science of Nutrition HHP 267 Wellness Coaching 3 HHP 268 Sustainable Food and Nutrition 4 HHP 280 Exercise Science Practicum 2 MTH 112 Trigonometry 4	HHP 131	Introduction to Exercise/Sport Science	3
HHP 248 Health Psychology 4 HHP 259 Care and Prevention of Athletic Injuries 3 HHP 260 Anatomical Kinesiology 4 HHP 262 Exercise Testing & Prescription 3 HHP 266 Nutrition for Health 3 or HHP 240 Science of Nutrition HHP 267 Wellness Coaching 3 HHP 268 Sustainable Food and Nutrition 4 HHP 280 Exercise Science Practicum 2	HHP 185	Various activity classes	1
HHP 259 Care and Prevention of Athletic Injuries 3 HHP 260 Anatomical Kinesiology 4 HHP 262 Exercise Testing & Prescription 3 HHP 266 Nutrition for Health 3 or HHP 240 Science of Nutrition HHP 267 Wellness Coaching 3 HHP 268 Sustainable Food and Nutrition 4 HHP 280 Exercise Science Practicum 2	HHP 212A	CPR-AHA Health Care Providers	1
HHP 260 Anatomical Kinesiology 4 HHP 262 Exercise Testing & Prescription 3 HHP 266 Nutrition for Health 3 or HHP 240 Science of Nutrition HHP 267 Wellness Coaching 3 HHP 268 Sustainable Food and Nutrition 4 HHP 280 Exercise Science Practicum 2	HHP 248	Health Psychology	4
HHP 262 Exercise Testing & Prescription 3 HHP 266 Nutrition for Health 3 or HHP 240 Science of Nutrition HHP 267 Wellness Coaching 3 HHP 268 Sustainable Food and Nutrition 4 HHP 280 Exercise Science Practicum 2	HHP 259	Care and Prevention of Athletic Injuries	3
HHP 262 Exercise Testing & Prescription 3 HHP 266 Nutrition for Health 3 or HHP 240 Science of Nutrition HHP 267 Wellness Coaching 3 HHP 268 Sustainable Food and Nutrition 4 HHP 280 Exercise Science Practicum 2	HHP 260	Anatomical Kinesiology	4
or HHP 240 Science of Nutrition HHP 267 Wellness Coaching 3 HHP 268 Sustainable Food and Nutrition 4 HHP 280 Exercise Science Practicum 2	HHP 262	Exercise Testing & Prescription	3
HHP 267Wellness Coaching3HHP 268Sustainable Food and Nutrition4HHP 280Exercise Science Practicum2	HHP 266	Nutrition for Health	3
HHP 268Sustainable Food and Nutrition4HHP 280Exercise Science Practicum2	or HHP 240	Science of Nutrition	
HHP 280 Exercise Science Practicum 2	HHP 267	Wellness Coaching	3
	HHP 268	Sustainable Food and Nutrition	
MTH 112 Trigonometry 4	HHP 280	Exercise Science Practicum	2
	MTH 112	Trigonometry	4

TRANSFER INFORMATION

Nearby public universities with either an Exercise Science/Kinesiology major or closely related major:

- Boise State University
- Eastern Oregon University-Distance Education (Physical Activity and Health)
- Montana State University
- Oregon State University Kinesiology
- Oregon State University Cascades Kinesiology
- Portland State University
- University of Montana
- University of Oregon

ADVISING NOTES

Lab fees:

4

4

- \$23 for HHP 295 Health and Fitness (3 credits)
- \$20 for HHP 212A CPR (1 credit)
- \$20 for all HHP 185 activity classes for Mazama Gym user fee

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BI 231

BI 232

BI 233

HHP 261

EXERCISE SCIENCE / KINESIOLOGY

Associate of Science (AS) Degree - Preparation for Transfer to Oregon State University 90 credits

This Associate of Science degree is intended for students who know that they are on the academic path to obtaining a Bachelor of Science in Kinesiology (Exercise Science) from Oregon State University – Cascades. Students who are unsure (or undecided) of the university to which they will transfer are encouraged instead to focus on the Associate of Arts Oregon Transfer degree. This AS degree is only for those students transferring from the COCC Exercise Science/Kinesiology associate degree program to the OSU Kinesiology (Exercise Science) bachelor's program and includes lower division major and general education requirements to help guide those students; please note that requirements can change and students in this degree are not guaranteed of completion of OSU-Cascades requirements.

This information reflects an accurate picture of OSU requirements at the time of approval, using the OSU catalog, advisors and web resources for consultation. However, degree requirements can and do change. OSU has made no guarantee about the accuracy of requirements in this AS degree; determination of transfer status is made on an individual course basis at the point of admission to OSU.

Courses must be completed with a grade of "C" or better.

BACCALAUREATE CORE

Skills

Writing I	WR 121 Academic Composition	4
Writing II	One course from the WR II list	3-4
Writing III	One course from the WR III list	3-4
Mathematics	Met by Program Requirements	
Fitness	HHP 295 Health and Fitness	3

Perspectives Courses

No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core. GEO courses listed under Physical Science are considered to be from a different department than GEO courses listed under any other Perspective category. Choose from the OSU Baccalaureate Core Courses listed on pages 246-247.

Choose one course in each of the following categories:

Physical Science

Met by Program Requirements

Biological Science

Physical or Biological Science

Met by Program Requirements

Cultural Diversity

Literature and the Arts

Social Processes and Institutions

Difference, Power and Discrimination

EXERCISE SCIENCE/KINESIOLOGY PROGRAM REQUIREMENTS

Required Sup	oporting Courses	
BI 231	Anatomy & Physiology I	4
BI 232	Anatomy & Physiology II	4
BI 233	Anatomy & Physiology III	4
CH 221	General Chemistry I	5
CH 222	General Chemistry II	5
CH 223	General Chemistry III	5
HHP 100	Introduction to Public Health	4
HHP 240	Science of Nutrition	3
MTH 112	Trigonometry	4
Exercise Scie	ence/Kinesiology Core	
HHP 131	Introduction to Exercise/Sport Science	3
HHP 261	Exercise Physiology	4
HHP 270	Sport & Exercise Psychology	3
Experiential	Learning Credits	
HHP 280A/B	Practicum - Exercise Science	2

ELECTIVE COURSES

Choose enough elective credits to reach a minimum total of 90 overall degree credits. Elective courses must be numbered 100 or above. Maximum of 12 credits of Career and Technical Education (CTE). 13-14 credits of 100-level or higher elective courses should align with career choices; see your advisor for recommendations. The following is a list of recommended electives:

HHP 259	Care & Prevention of Athletic Injuries	3
HHP 260	Anatomical Kinesiology	4
HHP 262	Exercise Testing and Prescription	3
HHP 267	Wellness Coaching	3
PSY 201	Mind and Brain	4

ADVISING NOTES

OSU Kinesiology major GPA requirements: minimum 2.25 GPA in option courses and 2.5 GPA in all Kinesiology/HHP departmental courses.

4-5

4

3-4

EXPLORATORY

Associate of Arts Oregon Transfer (AAOT) Degree Associate of General Studies (AGS) Degree 90 credits

If a student plans to earn a college degree but has not yet decided on a major, COCC identifies the student as "exploratory," which aligns with the Associate of Arts Oregon Transfer (AAOT) degree plan (see page 37 for the AAOT degree requirements). The AAOT degree is used for exploratory students because it provides a guideline of courses that meet bachelor's degree general education requirements at Oregon public universities. The AAOT degree does not include all bachelor degree requirements for freshmen and sophomores, and it does not include requirements for COCC's Career and Technical Education (CTE) programs. For these reasons, it is important for exploratory students to work actively to identify an educational goal.

Some exploratory students may choose to declare the Associate of General Studies degree (see page 39 for the AGS degree requirements). The AGS degree allows students to self-design a program to meet individual needs however it is not designed to meet bachelor's degree general education requirements as the AAOT degree, nor does it align with workforce training and skills as the AAS degrees. Again, it is important for exploratory students to work actively to identify an educational goal.

COCC recommends that students use several strategies to ensure good decisions about educational goals. Many COCC resources are available to assist.

- Take HD 110 Career Planning, a 3-credit course offered every term.
- Visit with the Career Services Coordinator in the CAP Center.
- Discuss options with your academic advisor and faculty members in departments that interest you.

COCC uses the AAOT and AGS degrees to provide exploratory students with a framework, but students should change their declared major when they make a decision. Initially, the GradTracks audit will present the Associate of Arts Oregon Transfer requirements but students should be aware that these guidelines are preliminary. Students can explore other COCC programs by using the "What If" option on the GradTracks menu. Give yourself a timeline within which to make a decision.

Many universities require students to declare their major within their first 90 credits, but large majors such as engineering, science and business, should be declared in the first 45 credits. CTE programs that lead directly to employment typically don't have elective credits, so the earlier students make a decision, the better.





FIRE SERVICE ADMINISTRATION

Associate of Science (AS) Degree - Preparation for Transfer to Eastern Oregon University 90-108 credits

PROGRAM DESCRIPTION

The AS degree is intended to prepare students to transfer to Eastern Oregon University's Fire Service Administration (FSA) degree and is designed for students seeking a career in the fire service industry or upgrading their skills for current fire service employment. The program meets or exceeds the required technical skills and knowledge necessary for employment in many fire service organizations throughout the country.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

- CPR for Healthcare Provider card \$55, must remain current throughout Basic and Paramedic classes
- Background check \$55. This will be required prior to Basic and Paramedic classes
- EMT 151 EMT Part A: program uniform shirt \$25; FISDAP account \$30; lab equipment \$27.50; badges \$5
- EMT 152 EMT Part B: lab equipment \$27.50
- Fee for State Certification Testing and National Registry Test, currently \$170-\$250
- Materials (boots, ear protection, gloves, etc.) \$200-\$350
- In some cases fees associated with immunizations \$222
- Other special equipment and clothing may be required as part of this program

ADVISING INFORMATION

The program requires hands-on training in fire and emergency medical skills and significant on-the-job training (OJT) by joining a fire agency. Most local fire agencies have student and volunteer positions. Students must apply and compete for these positions. Passing a physical training exam is required. Students are required to work with and around mechanical equipment, ropes, fire pumps, fire hose and appliances, ladders, various apparatus and hand tools (both manual and powered). Students need to be aware of the College insurance policy prior to participation in the program. A statement concerning College insurance policies is listed on all Structural Fire Science (SFS) degree syllabi. Students desiring to complete a dual degree — a degree in Paramedicine and a degree in SFS — must follow a specific course of study. Please see the program director for information.

PROGRAM PREPARATION AND PREREQUISITES

Recommended prior to entry into Structural Fire program-specific courses:

- High school diploma or GED
- Students must be 18 or older for state and national testing for EMT and for affiliation with a fire agency. Students do NOT need to be 18 to begin taking SFS courses
- Documentation of completion of immunizations (Hepatitis B or release, current TB, MMR immunizations at least two of the three shots)
- Minimum placement scores resulting in WR 121 placement OR completion of WR 065/095 (Grade "C" or better)
- Minimum placement scores resulting in MTH 060/085 placement OR completion of MTH 020 (Grade "C" or better)

All COCC students enrolled in the EMT course and/or seeking agency affiliation, or any course requiring practical experience, will have to pass a criminal history check (CHC) as a condition of their acceptance into a medical, fire or other facility for training. Information regarding CHC standards can be found at cocc.edu/emergency-medical-services/ frequently-asked-questions. Students who do not pass the CHC may not be eligible to complete training at affiliated sites, to sit for licensure or certification exams, or to be hired for some professional positions. Students who believe their personal history may interfere with their ability to complete the program of study or to obtain licensure or certification in their chosen field should contact the appropriate state board or the program director.

MINIMUM GPA OR GRADE REQUIREMENTS

All courses listed must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

Most Fire Service Administration program-specific courses begin once per year in fall term; there are a few entry-level courses offered several times per year and non-program support courses can begin in a term other than fall or if students need to build skills related to the prerequisites. As a general rule, all SFS specific courses should be taken in sequence in term offered during the second year of program. Exceptions can be made based on individual student education and experience.

PROGRAM STANDARDS

Students must maintain a minimum 2.0 GPA while enrolled in the program. Students affiliated with a local Fire/EMS agency who are receiving a scholarship will be held to a higher GPA standard depending on affiliation location. Students who do not meet this standard may be dismissed from the program. Students may also be dismissed if the student has violated a criminal or ethical standard or guideline established by the college and/or program.

Prior to taking the National Register of EMT exam and applying for Oregon EMT licensure, students must answer background information questions concerning felony convictions, any regulatory discipline, ethical violations and mental competence on the state of Oregon EMS Licensure application. For more information, contact the Paramedicine/SFS director, 541.383.7404.

TRANSFER INFORMATION

This degree is designed for students who wish to transfer to Eastern Oregon University's Fire Service Administration degree upon completion. For more information on this bachelor degree program, please contact the Fire Programs director at 541.383.7404.

PROGRAM COURSE REQUIREMENTS

•	_		
Gateway	EXD	erier	ıce

Gen Ed-Social Science

Gateway Exp	erience	
SP 111	Fundamentals of Public Speaking	3-4
or SP 218	Interpersonal Communication	
WR 121	Academic Composition	4
General Educ WR 122 or WR 227	cation Core Argument, Research and Multimodal Composition Technical Writing	4
Mathematics MTH 105 (or higher)	•	4
Choose one co	nd Humanities ourse from Eastern Oregon General Education Gen Ed-Aesthetics & Humanities List	3-4
Select from list See Eastern Or	thematical and Information Systems in two prefixes, including at least one physical science regon General Education Transfer Guide ath/Info Sciences	6-20 e
Select two from	ess and Creation n list in two different subject prefixes regon General Education Transfer Guide ocess/Creation	6-8
Social Science Select one from See Eastern Or		4

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FIRE SERVICE ADMINISTRATION (continued)

Associate of Science (AS) Degree - Preparation for Transfer to Eastern Oregon University 90-108 creditss

Recommend	ded Social Science	
ANTH 103	Cultural Anthropology	4
PSY 201	Mind and Brain	4
PSY 202	Mind and Society	4
SOC 201	Introduction to Sociology	4
Fire Service	Administration Lower Division Core	
FOR 211	Supervision and Leadership	3
or BA 285	Business Human Relations	
SFS 101	Introduction to Emergency Services	3
SFS 110	Building Construction for Fire Personnel	3
SFS 112	Public Education and Fire Prevention	3
SFS 120	Fixed Systems and Extinguishers	3
SFS 205	Fire Behavior and Combustion II	3
SFS 211	Fire Tactics and Strategies	3
SFS 212	Fire Codes and Related Ordinances	3

Electives

Elective credits to meet minimum 90 credits for degree. This may include up to 15 credits of Career and Technical Education courses (see page 41). Recommend:

SFS 121	Fire Law	1
SFS 122	Fire Budgets	1

The following are required for graduation in the FSA program and are only obtainable through affiliation in a fire agency:

- NFPA Firefighter 1
- NFPA Hazmat Awareness & Operations
- I-200 FEMA or NWCG certified course

Advising Notes

For those pursuing only the AS Fire Service Administration degree, the following courses are recommended as electives. Only 12 CTE credits will count toward AS elective requirements.

SFS 102	Firefighter Safety & Survival	3
SFS 105	Fire and Behavior Combustion I	3
SFS 210	Fire Investigation	3
SFS 232	Hydraulics and Water Supply	4
SFS 233	Entry Exams	3
WF 215	Urban Interface	3

For those pursuing the AAS Paramedicine degree as well as the AS Fire Service Administration degree, the following courses are recommended to count as electives. Only 12 CTE credits will count toward AS elective requirements.

BI 231, 232 and 233 Anatomy and Physiology I, II, III 4-1	2
	5
EMT 151 Emergency Medical Technician Part-A	_
EMT 152 Emergency Medical Technician Part-B	5
EMT 170 Communication and Documentation	2
EMT 171 Patient Transport	2
EMT 195 Crisis Intervention	3





FOREST RESOURCES TECHNOLOGY

Short-Term Certificates 12-15 credits

There are six short-term certificate programs as well as the Associate of Applied Science (AAS) degree available to students. The following certificates include classes that are already included in the Forest Resources Technology AAS degree requirements. These short-term certificates allow for completion along the path to a two-year degree. The certificates are best designed for those who hold degrees in other areas or are already in the work force and are looking to enhance their skills in a specific area.

The following short-term certificates are available in addition to or in lieu of the AAS degree. All required courses must be passed with at least a "C" grade. Students are expected to provide their own appropriate field clothing and tools.

ADVANCED FOREST CONCEPTS

Short-term Certificate - 12 credits

This certificate is designed to train individuals on the complexities of determining forest utilization, planning and management.

FOR 215	Forest Resource Capstone	3
FOR 237	Resource Sampling	4
FOR 273	Silviculture and Harvesting Processes	5

CONSERVATION OF NATURAL RESOURCES

Short-term Certificate - 14 credits

This certificate is designed to train individuals on basic concepts of conserving natural resources including forest, wildlife, soil and water resources.

FOR 111	Forestry Perspectives	4
FOR 208	Soils: Sustainable Ecosystems	4
FOR 240B	Wildlife Ecology	3
FOR 260	Conservation of Natural Resources	3

FOREST ECOLOGY

Short-term Certificate - 12 credits

This certificate is designed to introduce the practical aspects of forest ecology, dendrology and their applications.

FOR 240A	Forest Ecology	3
FOR 241A	Field Dendrology	3
FOR 241B	Dendrology	3
FOR 271	Applied Forest Ecology	3

FOREST MEASUREMENTS

Short-term Certificate - 13 credits

This certificate is designed to train individuals on basic measurements of trees, land and on-land navigation using maps, compasses and GPS.

FOR 230A	Map, Compass and GPS	3
FOR 230B	Forest Surveying	3
FOR 235	Resource Measurements	4
FOR 236	Aerial Photo	3

FOREST PROTECTION

Short-term Certificate - 15 credits

This certificate is designed to train individuals on identification of forest disease and insects and the basic techniques used to protect forests from fire, disease and insects.

0, 0.00000	4.14 1.1000101	
FOR 110	Wildland Fire Science I	2
FOR 210	Wildland Fire Science II	2
FOR 271	Applied Forest Ecology	3
FOR 272	Forest Entomology/Pathology	3
FOR 273	Silviculture and Harvestina Processes	5

MAPPING CARTOGRAPHY

Short-term Certificate - 14 credits

This certificate is designed to train individuals on the basic use and production of maps focusing on field techniques and use of basic geographic information systems.

FOR 230A	Map, Compass and GPS	3
FOR 230B	Forest Surveying	3
GEOG 211	Computer Cartography	4
GEOG 265	Geographic Information Systems	4

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FOREST RESOURCES TECHNOLOGY

Associate of Applied Science (AAS) Degree 101-106 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Forest Resources Technology

PROGRAM DESCRIPTION

The Associate of Applied Science (AAS) degree program in Forest Resources Technology provides the education and practical skills needed to succeed as a technician in forestry and natural resource fields throughout the western U.S. The AAS degree program from COCC is accredited by the Society of American Foresters. Job opportunities exist in government agencies (both state and federal) as well as private industry (contractors, consultants and private companies). The U.S. Forest Service is the primary employer for graduates of this program.

Jobs in the forestry industry offer many opportunities for employment locally and nationally. Traditional forest technician positions are now often referred to as natural resource technicians. Technicians spend considerable time outdoors. Typical entry-level positions might include forest management activities such as evaluation of reforestation efforts, timber sale layout, tree measurements, forest damage assessment and numerous other activities that are required when managing a forest.

Additionally, entry-level natural resource technicians may perform noxious weed identification and eradication, plant and wildlife surveys, fire protection and suppression and stream monitoring and restoration. Natural resource technicians can work for state or federal government agencies and manage public property, or work for private industry and private landowners.

COCC's Forest Resources Technology program has the advantage of being located near several national forests. A majority of the courses within the program include outdoor lab opportunities, which provide hands-on experience and knowledge essential to being an effective natural resource technician. Additionally, students are able to take advantage of job opportunities working with local agencies to develop and implement land management plans in the capstone course at the end of their second year.

Students who are interested in gaining employment in wildland fire or are adding these courses to their Forest Resource Technology degree can accomplish both degrees within three years. Students seeking the Wildland Fire Science degree are typically advised to complete the Forest Resources Technology degree first and return for a third year to complete the Wildland Fire Science degree. The dual-degree option is the ideal approach for those students interested in both wildland fire fighting and forestry.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

- Additional lab fees of approximately \$250
- · Equipment costs ranging from \$665-\$915 (suggested equipment includes: hardhat, boots, vest, compass, GPS, tatum, plant press, hand lens, rain gear, field book)

PROGRAM PREPARATION AND PREREQUISITES

This program can be completed within two years provided the student is adequately prepared to take MTH 085 and WR 121 and coursework is initiated during Fall term. Students entering in Winter or Spring term and/ or who require developmental writing or math courses, can complete the program within a three-year period. Students are expected to provide their own appropriate field clothing and tools. A list will be provided in FOR 100 Forestry Program Orientation.

MINIMUM GPA OR GRADE REQUIREMENTS

All courses must be completed with a "C" grade or better.

TRANSFER INFORMATION

This degree is designed for students planning to enter their chosen career upon graduation. As such, only selected credits are considered transferrable to public or private baccalaureate institutions. This will vary by institution. Institutions with which COCC has articulation agreements in Forest Resources Technology are Oregon State University and Oregon State University - Cascades.

Students planning to transfer to Humboldt State University, Oregon State University, or the University of Idaho to acquire a Bachelor of Science degree should meet with a COCC Forestry program advisor to discuss current transfer requirements. Many of the required undergraduate courses for the Bachelor of Science degrees can be taken at COCC and transferred accordingly.

PROGRAM REQUIREMENTS

The following is the course sequence required for students able to attend full time who intend to complete the degree in two years. Students are encouraged to meet with a faculty advisor in the Forestry program to discuss a two- or three-year educational plan. Students who have obtained a degree or completed coursework from another institution may be able to transfer some coursework to apply toward the AAS in Forest Resources Technology. A meeting with faculty or their advisor is strongly recommended.

SAMPLE SCHEDULE

YEAR ONE

Fall term FOR 100	Forestry Program Orientation	1
FOR 111	, 0	
FOR 230A	Forestry Perspectives	4 3 3 3 4
	Map, Compass and GPS	3
FOR 240A	Forest Ecology	3
FOR 241A	Field Dendrology	3
MTH 085	Technical Math I ¹	4
Winter tern	n	
CIS 120	Computer Concepts	0-4
or Computer	Competency Test ²	
FOR 230B	Forest Surveying	3
FOR 235	Resource Measurements	3 4
FOR 271	Applied Forest Ecology	3
MTH 086	Technical Math II	4
Spring term	1	
FOR 110	Wildland Fire Science I	2
FOR 126	Field Studies Pacific NW Forests	1
FOR 127	Plants of the Pacific Northwest	1
FOR 236	Aerial Photo	3
FOR 241B	Dendrology	3
FOR 272	Forest Entomology/Pathology	1 3 3 3 4
WR 121	Academic Composition ³	4
Summer te	rm	
FOR 180	Co-op Work Experience Forestry	3

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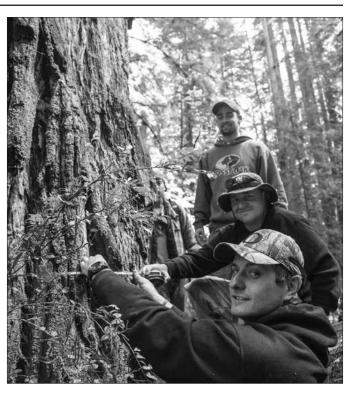
FOREST RESOURCES TECHNOLOGY (continued)

Associate of Applied Science (AAS) Degree 101-106 credits

YEAR TWO		
Fall term		
FOR 210	Wildland Fire Science II	2
FOR 240B	Wildlife Ecology	3
FOR 273	Silviculture and Harvesting Processes	5
HHP 252A	Fitness/First Aid	3
SP 111 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
	Small Group Communication	
Winter term		
FOR 211	Supervision and Leadership	3
FOR 237	Resource Sampling	4
Forest Resource	te elective ⁴	2
General Educa	tion Discipline Studies courses	4
GEOG 265	Geographic Information Systems	4
Spring term		
FOR 208	Soils: Sustainable Ecosystems	4
FOR 215	Forest Resource Capstone	3
FOR 260	Conservation of Natural Resources	3
FW 218	Survey of Northwest Mammals	2
or FW 212	Survey of Northwest Birds	
General Educa	tion Discipline Studies courses	4

FOOTNOTES

- ¹ Students can choose to take MTH 085 and MTH 086, or MTH 111. Students planning to transfer should consider MTH 111 and consult with their advisor for other specific transfer requirements.
- $^{\rm 2}$ Pass basic skills Computer Competency Test or take CIS 120.
- ³ Transfer students should also take WR 227.
- ⁴ The Forest Resource elective can be any course with the following prefixes: BI, CH, FOR, FW, G, or GEOG courses not already in the program coursework. The elective can be taken in any term.





Program Descriptions

FORESTRY

Associate of Science (AS) Degree - Preparation for Transfer to Oregon State University 96-99 credits

The Associate of Science (Forestry/OSU emphasis) fulfills many of the lower division requirements of a Bachelor of Science in forest management from Oregon State University – Corvallis. Other universities' requirements for a forest management degree will be similar. Course requirements for other majors in forestry at Oregon State University and other universities will differ. Students planning to transfer to any university forestry program should meet with a COCC Forest Resources Technology program advisor to discuss current transfer requirements.

This information reflects an accurate picture of OSU requirements at the time of approval, using the OSU catalog, advisors and web resources for consultation. However, degree requirements can and do change. OSU has made no guarantee about the accuracy of requirements in this AS degree; determination of transfer status is made on an individual course basis at the point of admission to OSU.

Courses must be completed with a grade of "C" or better.

BACCALAUREATE CORE

Skills

Writing I	WR 121 Academic Composition	4
Writing II	WR 227 Technical Writing	4
Writing III	SP 111 Fundamentals of Public Speaking	4
Mathematics	MTH 112 Trigonometry	4
Fitness	HHP 295 Health and Fitness	3

Perspectives Courses

No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core. GEO courses listed under Physical Science are considered to be from a different department than GEO courses listed under any other Perspective category. Choose from the OSU Baccalaureate Core Courses listed on pages 246-247 the following: one Biological Science lecture/lab combination, one Cultural Diversity, one Literature and the Arts, one Physical Science lecture/lab combination, one Social Processes and Institutions, one Western Culture, one Difference, Power and Discrimination, plus one additional lecture/lab combination from either Physical Science or Biological Science.

Choose one course in each of the following categories:

Physical Science Met by Program Requirements	
Biological Science Met by Program Requirements	
Physical or Biological Science Met by Program Requirements	
Western Culture	3-4
Cultural Diversity	4
Literature and the Arts	3-4
Social Processes and Institutions Met by Program Requirements	

FORESTRY P	PROGRAM REQUIREMENTS	
BI 101	General Biology: Cells & Genes	4-5
or BI 212	Biology of Plants II	
CH 221	General Chemistry I	5
CH 222	General Chemistry II	5
EC 201	Microeconomics	4
FOR 111	Forestry Perspectives	4
FOR 208	Soils: Sustainable Ecosystems	4
FOR 230A	Map, Compass and GPS	3
FOR 230B	Forest Surveying	3
FOR 240A	Forest Ecology	3 3 3
FOR 240B	Wildlife Ecology	3
FOR 241A	Field Dendrology	3
FOR 241B	Dendrology	3
FOR 235	Resource Measurements	3
FOR 236	Aerial Photo	3
GEOG 265	Geographic Information Systems	4
MTH 241	Calculus for Management and Social Science	4
MTH 243	Introduction to Probability and Statistics I	4
MTH 244	Introduction to Probability and Statistics II	4

Total may include a maximum of 12 Career and Technical Education (CTE) credits.

ADVISING NOTES

It is recommended that a student also take FOR 251 Recreation Resource Management and BI 212 Biology of Plants II. Though it is not included as an AS requirements, students will need to meet the Difference, Power and Discrimination requirement at OSU and could use COCC courses to meet it.

GENERAL TRANSFER

Associate of Science (AS) Degree – Preparation for Transfer to Oregon State University 90 credits

The AS (Oregon State University emphasis) degree is intended to give students who are confident they will finish their bachelor's degree at either OSU, Corvallis or OSU, Cascades a framework to directly meet OSU's general education (called "baccalaureate core" at OSU) requirements. Those students who are not certain that they will complete their degree at OSU or those who have fewer remaining requirements with the AAOT degree may be better served by the Associate of Arts degree which guarantees progress toward the general education core requirements at all Oregon public universities.

This information reflects an accurate picture of OSU requirements at the time of approval, using the OSU catalog, advisors and web resources for consultation. However, degree requirements can and do change. OSU has made no guarantee about the accuracy of requirements in this AS degree; determination of transfer status is made on an individual course basis at the point of admission to OSU.

Courses must be completed with a grade of "C" or better.

BACCALAUREATE CORE

Skills

Writing I	WR 121 Academic Composition	4
Writing II	One course from the WR II list	3-4
Writing III	One course from the WR III list	3-4
Mathematics	One course from the Mathematics list	4
Fitness	HHP 295 Health and Fitness	3

Perspectives Courses

No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core. GEO courses listed under Physical Science are considered to be from a different department than GEO courses listed under any other Perspective category. Choose the following from the OSU Baccalaureate Core Courses listed on pages 246-247: one Biological Science lecture/lab combination, one Cultural Diversity, one Literature and the Arts, one Physical Science lecture/lab combination, one Social Processes and Institutions, one Western Culture, one Difference, Power and Discrimination, plus one additional lecture/lab combination from either Physical Science or Biological Science.

Choose one course in each of the following categories:

Physical Science

	4-5
Biological Science	
	4-5
Physical or Biological Science Choose one additional course from the Physical Science or Biological Science lists	4-5
of biological science lists	7-3
Western Culture	3-4
Cultural Diversity	
	4
Literature and the Arts	
	3-4
Social Processes and Institutions	
	3-4
Difference, Power and Discrimination	
·	4

ELECTIVE COURSES

Electives must be numbered 100 or higher (with a maximum of 12 Career and Technical Education (CTE) credits).

Students are highly recommended to include lower division major requirements and their BA/BS requirements in their first 90 credits. Many OSU majors require a significant number of lower division courses, and some programs (such as engineering, computer science and business) require completion of these courses before students may continue to upper division courses. Students who do not complete these requirements in their first 90 credits may find that they cannot complete their bachelor's degree in two years after completion of this AS degree nor in the minimum total of 180 credits.

Requirements for the major

To locate major requirements for programs offered in central Oregon through the OSU, Cascades campus, use the following website: osucascades.edu/academics. To locate major requirements for programs offered on the Corvallis website, the following website is a good starting place: catalog.oregonstate.edu.

Requirements for a BA or BS degree, other requirements Following are considerations for students working on their BA/BS requirement.

- Nearly all degrees at OSU are either BA (Bachelor of Arts) or BS (Bachelor of Science) degrees.
- Some majors offer both BA and BS options, and some only offer one option.
- BS requirements are included in major curriculum for all degrees that are in colleges outside of the College of Liberal Arts.
- A major will either allow students to "double dip" (use a course to meet two requirements, such as a major requirement and a BA/BS or baccalaureate core requirement) or will prohibit double dipping.
- Usually, majors that allow double dipping will require specific courses that can be used in both the major and the BA/BS or baccalaureate core.

ADVISING NOTES

Timina

OSU recommends the following plan for timing your baccalaureate core requirements.

First Year:

- Complete Writing 1 (WR 121, C- or better), Speech and Math (required in first 45 OSU credits)
- Begin Perspectives courses
- Consider a Difference, Power and Discrimination (DPD) or Fitness course

Second Year:

- Complete Writing II (required in first 90 OSU credits)
- Continue Perspectives courses
- Completed Difference, Power and Discrimination (DPD) and Fitness course requirements

Notes for majors from the College of Liberal Arts (CLA)

At the Cascades campus, this includes majors such as American Studies, Liberal Studies, Psychology and Social Science.

- Generally, double dipping is not allowed.
- CLA majors have a Liberal Arts Core requirement (5 courses, at least 15 credits).
- Students are encouraged to include the BA or BS requirements in their lower division courses.

Program Descriptions

GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Certificate of Completion 50 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Geographic Information Systems

PROGRAM DESCRIPTION

The GIS certificate program is designed for students already possessing a two- or four-year college degree that seek to add specific GIS skills to their discipline.

GIS is an information system designed to work with data referenced by spatial or geographic coordinates. GIS is both a database system with specific capabilities for spatially referenced data, as well as a set of operations for working with (analyzing) the data. The program is built on a foundation of computer-aided mapping and surveying technology for collecting spatial data, database generation and manipulation for tabular data and GIS-specific courses for organization, analysis and reporting.

Graduates work in retail and commercial businesses, natural resources, education, federal/state/local governments, banking and insurance, internet, publishing and real estate. GIS careers typically include positions such as GIS technician, analyst, project manager, computer programmer, database administrator, system administrator, cartographic designer, developer and related managerial and administrative roles.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

• Materials (usb/flash drive, maps, assorted office supplies) \$500.

Recommended, but not required:

 A home or laptop computer capable of running the GIS software, \$700. Contact program instructor for specifics.

PROGRAM PREPARATION AND PREREQUISITES

Recommended prior to entry in program (GIS) courses:

- Two year, four-year, or graduate degree from accredited institution
- Completion of computer competency (either IC3 exam or CIS 120)

MINIMUM GPA OR GRADE REQUIREMENTS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

Program (GIS) courses begin once per year, in Fall term. Students take non-program support and/or selected GIS courses if they begin in a term other than Fall or if they need to build skills related to prerequisites.

PROGRAM STANDARDS

GIS courses offered each term must be taken together and sequentially. Students are discouraged from working more than 10 hours per week during any term due to heavy course load.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

While there are none currently required, various professional organizations offer certification that may enhance placement opportunities.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM	COURSE REQUIREMENTS	
Communico WR 121	ation Academic Composition	4
Mathematic Imbedded in	cs program courses	
Human Relat	ations ions approved course	3
CORE REQUIREMENTS		
GEOG 211	Computer Cartography	4
GEOG 265	Introduction to Geographic Information Systems	4
GEOG 266	ArcGIS	5
GEOG 267	Geodatabase Design	5
GEOG 273	Spatial Data Collection	5
GEOG 275	GIS Capstone	5
GEOG 285	Data Conversion and Documentation	5
GEOG 286	Remote Sensing	5
GEOG 287	Analysis of Spatial Data	5

GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Associate of Applied Science (AAS) Degree 94-100 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science Degree, Geographic Information Systems

PROGRAM DESCRIPTION

GIS is an information system designed to work with data referenced by spatial or geographic coordinates. GIS is both a database system with specific capabilities for spatially referenced data, as well as a set of operations for working with (analyzing) the data. The program is built on a foundation of computer-aided mapping and surveying technology for collecting spatial data, database generation and manipulation for tabular data and GIS-specific courses for organization, analysis and reporting.

Graduates work in retail and commercial businesses, natural resources, education, federal/state/local governments, banking and insurance, internet, publishing and real estate. GIS careers typically include positions such as GIS technician, analyst, project manager, computer programmer, database administrator, system administrator, cartographic designer, developer and related managerial and administrative roles.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

• Materials (usb/flash drive, maps, assorted office supplies) \$500.

Recommended, but not required

 A home or laptop computer capable of running the GIS software, \$700. Contact program instructor for specifics.

PROGRAM PREPARATION AND PREREQUISITES

Recommended prior to entry in program (GIS) courses:

- · High school diploma or GED
- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 085 placement or completion of MTH 020 and/or MTH 060 equivalent

Recommended prior to, or upon entry, in program (GIS) courses:

 Completion of computer competency (either IC3 exam or CIS 120, which may be taken as part of program).

All COCC students enrolled in the Geographic Information Systems program (which includes requirements for co-operative work experience) may have to pass criminal history checks (CHC) as a condition of their acceptance into a work site. Students who do not pass the CHC may not be eligible to complete requirements at affiliated practicum sites or be hired for some professional positions. Students with a history that may interfere with their ability to complete the program of study should contact the program director.

MINIMUM GPA OR GRADE REQUIREMENTS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

Program (GIS) courses begin once per year, in Fall term. Students take non-program support and/or selected GIS courses if they begin in a term other than Fall or if they need to build skills related to prerequisites. Students receiving federal financial aid are encouraged to speak with the financial aid advisor.

GIS courses, offered each term, must be taken together and sequentially. Students are discouraged from working more than 10 hours per week during any term due to heavy course load.

PROGRAM STANDARDS

Students must maintain a minimum 2.0 GPA while enrolled in GIS program courses. Students who do not meet this standard may be dismissed from the program.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

While there are none currently required, various professional organizations offer certification that may enhance placement opportunities.

TRANSFER INFORMATION

This degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM COURSE REQUIREMENTS

Communication

WR 121	Academic Composition	4
WR 227	Technical Writing	4
Mathematics MTH 085 and MTH 086 or MTH 105 (or higher)	Technical Mathematics I Technical Mathematics II Math in Society	4-8
Human Relat Human Relatio	ions ns approved course	3
CORE REQU	IREMENTS	
GEOG 211	Computer Cartography	4
GEOG 265	Introduction to Geographic Information Systems	4
GEOG 266	ArcGIS	5
GEOG 267	Geodatabase Design	5
GEOG 273	Spatial Data Collection	5
GEOG 275	GIS Capstone	5
GEOG 280	Co-Op Work Experience GIS	3
GEOG 284	GIS Customization	5
GEOG 285	Data Conversion and Documentation	5
GEOG 286	Remote Sensing	5
GEOG 287	Analysis of Spatial Data	5

Other required courses

CIS 135DB	Database Theory/SQL	4
FOR 230A	Map, Compass and GPS	3
FOR 235	Resource Measurements	4
HHP 252A	Fitness/First Aid	3
Discipline Studies courses		(minimum) 8

GIS ELECTIVES

Two courses minimum

CIS 120	Computer Concepts	4
CIS 125A1	AutoCAD 1	4
FOR 230B	Forest Surveying	3
FOR 236	Aerial Photo	3

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Program Descriptions

GEOGRAPHY

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in geography.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS		
Writing		
WR 121 WR 122	Academic Composition Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	
Oral Commu		
SP 111 or SP 114	Fundamentals of Public Speaking Argumentation and Critical Discourse	3-4
or SP 114	Introduction to Intercultural Communication	
or SP 218	Interpersonal Communication	
or SP 219	Small Group Communication	
Mathematics		4
MTH 105 (or higher)	Math in Society	4
Recommend:		
MTH 111	College Algebra	
•	dits with HHP prefix)	3
HHP activity co	ourses (1 credit each) are not to be duplicated	
GENERAL EDUCATION/DISCIPLINE STUDIES See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.		
Arts and Lett At least three (ters 3) courses from at least two (2) prefixes.	9-12
Social Science At least four (4 Recommend:	ce l) courses from at least two (2) prefixes.	12-16
GEOG 106	Economic Geography	4
GEOG 201	World Regional Geography I ¹	4
GEOG 202	World Regional Geography II ¹	4
Plus another course from the Social Science Discipline Studies list that does not have a GEOG prefix.		

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

or GEOG 279 Physical Geography-Weather and Climate 1,2

Physical Geography-Landforms and Water^{1,2}

Science/Math/Computer Science

Recommend: GEOG 278

ELECTIVES

Recommend:		
GEOG 107	Cultural Geography	4
GEOG 190	Environmental Geography	4

Plus choose any college-level course that brings the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable.

FOOTNOTES

- ¹ Courses in Geography do not need to be taken in sequence.
- ² Lab science course.

ADVISING NOTES

Students pursuing a BA after transfer should consider completing three terms of a 200-level language course. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement.

Students pursuing a BS after transfer should consider taking more math and science courses. Language is not necessary. For specific details, speak with an advisor.

GEOLOGY

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

Geology provides an understanding of the materials that constitute the earth and the processes that have shaped the earth, from its deep interior to the surface landforms. It is a science that addresses problems by combining field investigations with laboratory experiments and theoretical studies. Geology addresses many natural hazards that affect humans, such as earthquakes, flooding and volcanic eruptions. It also addresses the impact of humans on the Earth's surface environment where we extract resources, contaminate ground water, contribute to rapid erosion, or attempt to re-engineer rivers and shorelines. In addition, geology draws upon many other disciplines including biology, chemistry, mathematics and physics in order to understand earth processes in the reference frame of geologic time. Emphasis areas vary among universities and typically include mineralogy, paleontology, environmental geology and geophysics.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in geology.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing		
WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	
Oral Commu	ınication	
SP 111	Fundamentals of Public Speaking	3-4
or SP 114	Argumentation and Critical Discourse	
or SP 115	Introduction to Intercultural Communication	
or SP 218	Interpersonal Communication	
or SP 219	Small Group Communication	
Mathematics	S	
MTH 105	Math in Society	4
(or higher)		
Recommend:		
MTH 111	College Algebra	
•	dits with HHP prefix) ourses (1 credit each) are not to be duplicated	3
GENERAL EI	DUCATION/DISCIPLINE STUDIES	

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Letters	9-12
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At least three (3) courses from at least two (2) prefixes.

Social Science 12-16

At least four (4) courses from at least two (2) prefixes.

Science/Math/Computer Science 12-20

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

Recommend:		
CH 221	General Chemistry I	5
G 201	Geology I	4
G 202	Geology II	4
G 203	Geology III	4
ELECTIVES		
BI 101	General Biology: Cells & Genes	4
BI 102	General Biology: Evolution	4
BI 103	General Biology: Ecology	4
CH 222	General Chemistry II	5
CH 223	General Chemistry III	5
G 148	Volcanoes & Earthquakes	4
G 162CV	Cascades Volcanoes	3
G 207	Geology of the Pacific Northwest ¹	4
GS 108	Oceanography	4
MTH 254	Vector Calculus I	4
MTH 255	Vector Calculus II	4
MTH 256	Applied Differential Equations	4
PH 211	General Physics I	5
PH 212	General Physics II	5
PH 213	General Physics III	5

FOOTNOTE

¹ Lab science.

ADVISING NOTES

Students planning to transfer to Oregon public universities should take the following:

CH 221, 222 and 223

PH 201, 202 and 203 or PH 211, 212 and 213

Those planning to transfer to

- OSU should take MTH 112, 251 and 252
- PSU should take MTH 251, 252, 253 and 254
- SOU should take MTH 111, 112, 251 and 252
- UO should take MTH 251, 252 and 253

Students are strongly encouraged to contact the appropriate transfer university for the most current requirements of their major and emphasis area.

TRANSFER INFORMATION

Oregon universities with a geology major include Oregon State University, Portland State University, Southern Oregon University and University of Oregon.

HEALTH INFORMATION TECHNOLOGY

Certificate of Completion 37-85 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion in:

Insurance

Medical Office Specialist Medical Billing Specialist

Coding Competency

PROGRAM DESCRIPTION

The Health Information Technology program provides a career-ladder approach to the health information management profession. Students proceed up the ladder as follows:

- When students have completed the first two academic quarters of HIT curriculum, they receive an Insurance Certificate.
- At the end of the first three quarters students are awarded a Medical Office Specialist Certificate.
- After completing four academic quarters (first year HIT curriculum, Directed Practice I plus Fall quarter of year two), students earn a Medical Billing Specialist Certificate.
- Adding two additional coding courses (HIT 283, HIT 285) and passing a proficiency exam qualifies students for a Medical Coding Competency Certificate.
- Upon completion of all HIT curriculum, students earn an Associate of Applied Science degree in Health Information Technology and are eligible to sit for the Registered Health Information Technician (RHIT) national credential examination.

Since 2003, the COCC HIT Program has maintained a pass rate of 100% for students taking the RHIT exam within one year of graduation.

Students have the freedom to exit and re-enter the program after the first year. The program includes preparation in technical coursework, human relations, communications, mathematics and computer technology.

It is strongly recommended that students obtain competency in the following areas before entering the health information curriculum:

- Keyboarding: 40 WPM minimum
- Study skills
- Writing skills
- Reading with emphasis on critical thinking and analytical skills
- Computer/technology skills (essential)

The Health Information Technology program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). It is one of two accredited health information programs in the state of Oregon.

Prior to enrolling in HIT 103, students must pass CIS 120, AH 111 and WR 121 with a grade of "C" or better. Students entering the HIT program are required to have a criminal history check prior to enrolling in HIT 103. A student may be prevented from entering the program if there is a felony conviction on their record.

The following is the suggested course sequence for students able to attend full time. Students are encouraged to consult their academic advisor if they have transfer credits and/or are not able to attend full time in order to determine an appropriate course schedule. Additionally, students should reference the course descriptions to determine required lab hours. All HIT courses must be completed with a "C" (75%) grade or better.

INSURANCE

Short-term Certificate of Completion - 37 credits

(Two quarters of HIT curriculum to complete if attending full time)

The following is a suggested course of study for students interested in pursuing a certificate in Insurance and will depend on course availability.

Prerequisites

AH 111	Medical Terminology I	3
CIS 120	Computer Concepts	4
WR 121	Academic Composition	4

	2
AH 112 Medical Terminology II	3
BI 231 Human Anatomy and Physiology I	4
HIT 103 Health Information Systems and Procedures	5
MTH 031 Health Care Math	3
Winter term	
BI 232 Human Anatomy and Physiology II	4
HIT 104 Health Data Content and Structure	5
HIT 180 HIPAA Management	2

MEDICAL OFFICE SPECIALIST

Certificate of Completion - 56 credits

(Three quarters of HIT curriculum to complete if attending full time)

The following is a suggested course of study for students interested in pursuing a certificate in Medical Office Specialist and will depend on course availability.

Winter term

HIT 182

HIT 184

Complete Insur	rance Certificate	3/
SP 218*	Interpersonal Communication	3-4
or BA 285*	Business Human Relations	
or PSY 101*	Applied Psychology	
*Note: not req	uired for Insurance Certificate.	
Spring term		
BI 233	Human Anatomy and Physiology III	4
HIT 131A	Document Management and Technology	3

Fall term (second year curriculum)

MEDICAL BILLING SPECIALIST

Certificate of Completion - 75 credits

(Five quarters of HIT curriculum to complete if attending full time)

Introduction to Medical Coding

Advanced Pathophysiology

The following is a suggested course of study for students interested in pursuing a certificate in Medical Billing Specialist and will depend on course availability.

Complete Med	dical Office Specialist Certificate	56
HIT 193	Directed Practice I	2
Fall term		
HIT 201	Legal Aspects of Medical Records	3
HIT 205	Introduction to Medical Record Analysis	3
HIT 284	Classification and Reimbursement Systems	4
HIT 296	Ambulatory Data Systems	3
SP 111	Fundamentals of Public Speaking	4

CODING COMPETENCY

Certificate of Completion - 85 credits

(Seven quarters of HIT curriculum to complete if attending full time)

The following is a suggested course of study for students interested in pursuing a certificate in Coding Competency and will depend on course availability.

Complete Med	ical Billing Specialist Certificate	75
Winter term HIT 283	Coding Classifications	6
Spring term HIT 285	Advanced Coding Classification	4
	· ·	

Pass CCA Proficiency Exam

HEALTH INFORMATION TECHNOLOGY

Associate of Applied Science (AAS) Degree 107 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Health Information Technology

PROGRAM DESCRIPTION

The Health Information Technology program prepares individuals in technical coursework, human relations, communications, mathematics and computer technology. The program employs a career ladder approach that includes the following certificates:

- Medical Insurance
- Medical Office Specialist
- Medical Billing Specialist
- · Coding Competency

At the end of six academic quarters (approximately two years), students earn an Associate of Applied Science (AAS) degree in Health Information Technology. Students are eligible to take the RHIT (Registered Health Information Technician) national credential examination upon completion of the AAS degree. The Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) accredits the Health Information Technology program.

Health information technicians collect, analyze, code, manage and maintain medical information regarding patients. Health information technicians must be highly organized and pay attention to detail, maintain patient medical information in a complete, accurate and secure manner while maintaining high ethical standards. Health information technicians work in a wide range of health care facilities including but not limited to hospitals, clinics, doctors' offices and nursing homes. In Oregon, the number of jobs for health information technicians is expected to grow much faster than the average for all occupations through the year 2020.

COST OF PROGRAM

Total cost depends upon preparatory coursework and extent of completion within the program - certificate/degree.

- Additional costs estimated to be approximately \$2,500 include textbooks, technology fees, Directed Practice travel expense, OrHIMA Convention, criminal history check, etc.
- Students are strongly encouraged to have access to a home computer with high-speed internet access.

PROGRAM PREPARATION AND PREREQUISITES

Successful students in this program have high-level communication skills, mathematics skills and an aptitude for science and technology. Prior to enrolling in HIT 103 students must pass AH 111, CIS 120 and WR 121 with a grade of "C" or better. Students entering the HIT program are required to have a criminal history check prior to enrolling in HIT 103. A student may be prevented from entering the program if there is a felony conviction on their record.

MINIMUM GPA OR GRADE REQUIREMENTS

All courses must be completed with a "C" grade or better to advance to the second year and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

HIT is a cohort program, which begins each Fall. Students can complete non-HIT courses prior to entry into the cohort or concurrently. Courses are in sequence for first and second year. Students must complete all first-year courses before enrolling in second-year coursework.

PROGRAM STANDARDS

All COCC students enrolled in the Health Information Technology program leading to the AAS degree must pass a criminal history check (CHC) as a condition of their acceptance into a medical or other facility for directed practice. Students who do not pass the CHC may not be eligible to complete training at affiliated practicum sites (this could also prevent graduation from the program) or to sit for the certification exam (RHIT).

Unethical or unprofessional conduct is cause for dismissal from the program, i.e., cheating, plagiarism. Breach of confidentiality is grounds for immediate dismissal.

TRANSFER INFORMATION

This degree is designed primarily for students planning to enter their chosen career upon graduation. However, credits are transferrable per an articulation agreement with the University of Cincinnati for students choosing to pursue an online BS in Health Information Management.

SKILLS REQUIREMENTS

Communication

SP 111	Fundamentals of Public Speaking	4
WR 121	Academic Composition	4
Mathematics	5	
MTH 031	Health Care Math	3
Human Relations		
Human Rela	tions	
Human Related SP 218	tions Interpersonal Communication	3
		3

All courses with an HIT prefix (except HIT 180 and HIT 184) require instructor approval.

CORE REQUIREMENTS

COKE KEQU	INLIMENTS		
HIT 103	Health Info Systems/Procedures	5	
HIT 104	Health Data Content and Structure	5	
HIT 131A	Document Management Technology (offered online)	3	
HIT 180	HIPAA Management (offered online and face-to-face)	2	
HIT 182	Introduction to Medical Coding	4	
HIT 184	Advanced Pathophysiology	5	
HIT 193	Directed Practice	2	
HIT 201	Legal Aspects of Health Care	3	
HIT 203	Health Care Delivery/Technology	3	
HIT 205	Introduction/Medical Record Analysis	3	
HIT 272	Health Information Management	5	
HIT 281	Health Data Collection	3	
HIT 282	Quality Improvement in Health Care	4	
HIT 283	Coding Classification	6	
HIT 284	Classification and Reimbursement Systems	4	
HIT 285	Advanced Medical Coding	4	
HIT 287	Leadership and Project Management	2	
HIT 293	Directed Practice II	2	
HIT 296	Ambulatory Data Systems	3	
OTHER REQUIRED COURSES			
AH 111	Medical Terminology I	3	
AH 112	Medical Terminology II	3	
BI 231	Human Anatomy & Physiology I	4	
BI 232	Human Anatomy & Physiology II	4	

Human Anatomy & Physiology III

Computer Concepts

Fitness/First Aid

4

4

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BI 233

CIS 120

HHP 252A

HEALTH / WELLNESS COACHING

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The aim of the AAOT focusing toward Wellness Coaching is to empower students to help others through prevention of illness, injury and disease by effective application of principle and practices of holistic wellness and life coaching. This program provides significant preparation toward the wellness coaching majors (see a wellness coaching advisor for specific programs). Successful completion of this coursework will assist students with the preparation necessary to complete their national certification in wellness or life coaching certifications through the American College of Sports Medicine, Wellcoaches Corporation, International Coach Federation and the National Wellness Institute.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met.

Students should work closely with an advisor to select the best degree option and review specific transfer requirements. A bachelor's degree must be obtained to complete the national certification. Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing		
WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	
Oral Commu	nication	
SP 111	Fundamentals of Public Speaking	3-4
or SP 114	Argumentation and Critical Discourse	
or SP 115	Introduction to Intercultural Communication	
or SP 218	Interpersonal Communication	
or SP 219	Small Group Communication	
Mathematics		
Mathematics	•	
MTH 105	Math in Society	4
(or higher)	·	
Recommend:		
MTH 111	College Algebra	
Health (3 cred	dits with HHP prefix)	3
•	purses (1 credit each) are not to be duplicated	
	DUCATION/DISCIPLINE STUDIES	
	•	
Arts and Lett		9-12
,	3) courses from at least two (2) prefixes.	
Recommend:		
AH 205	Medical Ethics	3
Social Science	e	12-16
At least four (4) courses from at least two (2) prefixes.	
Recommend:		
HHP 100	Introduction to Public Health	4
HHP 270	Sport and Exercise Psychology	3
PSY 201	Mind and Brain	4
PSY 202	Mind and Society	4

Science/Math/Computer Science

12-20

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend:

RLIOI	General Biology I: Cells & Genes	4
BI 102	General Biology II: Evolution	4
BI 103	General Biology III: Ecology	4
BI 231	Anatomy & Physiology I	4
BI 232	Anatomy & Physiology II	4
BI 233	Anatomy & Physiology III	4
MTH 243	Introduction to Probability & Statistics I	4
WELLNESS	COACHING CORE - 20 credits	

HHP 242 Stress Management 3 HHP 248 Health Psychology 4 HHP 267 Fundamentals of Wellness Coaching 3 HHP 280 Coaching Practicum 2 HS 262 Effective Helping Skills II 4

Positive Psychology

ELECTIVES

PSY 228

Choose enough elective credits to reach a minimum total of 90 overall degree credits. Elective courses must be numbered 100 or above and can be any combination of general electives, Career and Technical Education (CTE) courses (12 credits maximum) or CWE/HHP performance courses (15 credits maximum).

Recommended Electives

HHP 210	Introduction to Health Services & Organizations	3
HHP 212A	CPR-AHA Health Care Providers	1
HHP 231	Human Sexuality	3
HHP 252	First Aid	3
HHP 258	Holistic Wellness	4
HHP 260	Anatomical Kinesiology	4
HHP 261	Exercise Testing & Prescription	4
HHP 266	Nutrition for Health	3
or HHP 240	Science of Nutrition	
PSY 225	Eating Disorders	4
SOC 201	Introduction to Sociology	4

ADVISING NOTES

Lab fees

- \$23 for HHP 295 (3 credits)
- \$20 for HHP 212A (1 credit)
- \$20 for all HHP 185 activity courses for Mazama Gym user fee

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HISTORY

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The discipline of History illuminates and analyzes the human past through primary and secondary evidence. History majors and minors learn to think with rigor, to write with clarity and precision, to research, organize and assess evidence and to interpret complex information. History majors develop a foundational skill set that opens the way to careers in such fields as education, government, international work, marketing, public relations, non-profit, business, journalism, museum work and law.

Many arts and science disciplines can make this claim, but history does so while offering a boundless variety of material for analysis including the diversity of human experience. Themes in history courses include politics, ethnicity, wars, sexuality, music, social class, religion, ideas and other distinctive topics that reveal the human experience at various times and places. Not only is the study of history useful for professional life, it provides a compelling context for personal enrichment and lifelong learning.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in history.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing		
WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	nication	
SP 111	Fundamentals of Public Speaking	3-4
or SP 114	Argumentation and Critical Discourse	
or SP 115	Introduction to Intercultural Communication	
or SP 218	Interpersonal Communication	
or SP 219	Small Group Communication	
Mathematics	3	
MTH 105	Math in Society	4
(or higher)		
Recommend:		
MTH 111	College Algebra	
•	dits with HHP prefix) ourses (1 credit each) are not to be duplicated	3

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Letters 9-12

At least three (3) courses from at least two (2) prefixes.

Social Science

12-16

At least four (4) courses from at least two (2) prefixes. History majors are advised to choose two survey courses with a History prefix in European, World or American History.

HST 101	History of Western Civilization	4
HST 102	Europe: Middle Ages to Enlightenment	4
HST 103	Europe: Revolution and War	4
HST 104	Ancient Societies	4
HST 105	Expansion of World Religions	4
HST 106	Modern World History	4
HST 201	Early America	4
HST 202	19th Century United States	4
HST 203	20th Century United States	4

Science/Math/Computer Science

12-20

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

ELECTIVES

History courses at COCC are divided into three general areas: World, European and American history. History majors are advised to take at least two (2) courses from each area during the course of earning an AAOT (including the social science requirement) and then choose any college-level courses that bring the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable. Elective courses can include the survey history courses listed above as social science options well as:

European History

European mis	story	
HST 235	Sexuality in 20th Century Europe ¹	4
HST 270	20th Century European History ¹	4
World History	/	
HST 258	Colonial Latin American History ¹	4
HST 259	Modern Latin American History ¹	4
HST 260	History of Islamic Civilizations ¹	4
HST 290	East Asian History I ¹	4
HST 291	East Asian History II ¹	4
HST 292	East Asian History III ¹	4
American His	story	
HST 204	History of the Civil War ¹	4
HST 207	History of the American West ¹	4
HST 218	Native American History ¹	4
HST 225	US Women's History	4

FOOTNOTE

HST 242

¹ Courses in history do not need to be taken in sequence.

History of the Pacific Northwest¹

ADVISING NOTES

Students pursuing a BA after transfer should consider completing to the third term of a 200-level language course. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement. For specific details, speak with an advisor.

TRANSFER INFORMATION

Oregon public universities that offer a bachelor's degree in history include Eastern Oregon University, Oregon State University, Portland State University, Southern Oregon University, University of Oregon and Western Oregon University. Most of Oregon's private universities also offer BA programs in history.

Oregon State University – Cascades offers related majors in American Studies, Social Science and Liberal Studies, a minor in Art History and a Master of Arts in Teaching graduate program.

HOSPITALITY MANAGEMENT

Associate of Applied Science (AAS) Degree 90-95 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Hospitality Management

PROGRAM DESCRIPTION

The Associate of Applied Science (AAS) coursework prepares students for immediate employment in hospitality occupations. A Hospitality Management (HM) AAS degree will provide students with the skills the hospitality industry requires – specifically, skills in management, hospitality technology, food and beverage operations and basic business fundamentals of marketing, customer service and financial analysis.

COST OF PROGRAM

In addition to standard COCC tuition rates, fees and textbooks, students should anticipate the following estimated program costs:

- \$23 OLCC Liquor Control Card
- \$185 per credit for courses taught at Cascade Culinary Institute (indicated with a footnote), with the degree total of \$6,105-\$6,846
- Additional cost for supplies approximately \$150

PROGRAM PREPARATION AND PREREQUISITES

Recommend:

- · High school diploma or GED
- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 060/CUL 090 placement or completion of MTH 020/031 ("C" or better)

MINIMUM GPA OR GRADE REQUIREMENTS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

The following is provided to assist students in planning their schedule. Students should take as many Level 1 courses as possible before attempting Level 2 courses, Level 2 courses before Level 3 courses, etc. This will enable students to approach each class with the background necessary to succeed and enjoy the course content.

PROGRAM STANDARDS

Academic dishonesty will not be tolerated and can result in the offending student being dropped from the program. Students wishing reinstatement must seek endorsement from the department chair after completing a progressive review.

TRANSFER INFORMATION

This degree is designed for students planning to enter their chosen career upon graduation. Only selected credits are considered transferrable to public or private baccalaureate institutions. See advisor for additional information.

PROGRAM COURSE REQUIREMENTS

Level 1 Foundation Courses

Foundation courses ensure that students have basic skills and basic business concepts to address further skill development. Foundation courses include math, computer and writing skills. Students should take:

BA 217	Accounting Fundamentals	4
CIS 120	Computer Concepts	0-4
or Computer	Competency Test	
CIS 131	Software Applications	4
CUL 901	Culinary Math	4
CUL 1011	Introduction to Culinary Arts	4
CUL 102 ¹	Food Safety and Sanitation	2
HM 101	Introduction to Hospitality	4
HM 130 ¹	Hospitality Supervision	4
LIB 100	Introduction to Finding Information	1
WR 121	Academic Composition	3-4
or BA 214	Business Communications	

Level 2 Core Courses

Core courses that will allow students to begin to understand concepts in their specialization courses taken in Level 3.

BA 178	Customer Service	3
BA 223	Marketing Principles I	4
BA 250	Entrepreneurship	4
CIS 125E	Excel	4
HM 106	Lodging Management	3
HM 150 ¹	Procurement	3
HM 160 ¹	Wine and Beverage Management	3
HM 190 ¹	Dining Room Operations	5
HM 210 ¹	Menu Composition and Analysis	3
HM 240	Hospitality Law	4
HM 280	Hospitality Management Industry Internship	6
HM 290 ¹	Career Success and E-Folio Presentation	2

Level 3 Hospitality Management Specialization List

Select 16 credits from the following:

Select 10 credi	is from the following.	
BA 101	Introduction to Business	4
BA 224	Human Resource Management	4
BA 249	Retailing	4
BA 261	Consumer Behavior	4
CIS 178	Internet in Depth	4
HHP 268	Sustainable Food and Nutrition	4
HM 275	Mixology and Beverage Operations	4

FOOTNOTE

¹ Specific courses taught at the Cascade Culinary Institute carry a fee of \$185 per credit.

HOSPITALITY MANAGEMENT

Certificate of Completion 47-52 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Hospitality Management

PROGRAM DESCRIPTION

The Hospitality Management certificate is designed to give students a foundation for careers in hospitality management. All coursework may be applied to an Associate of Applied Science (AAS) Hospitality Management degree.

COST OF PROGRAM

In addition to standard COCC tuition rates, fees, and textbooks, students should anticipate the following estimated program costs:

- \$23 OLCC Liquor Control Card
- \$185 per credit for courses taught at Cascade Culinary Institute (indicated with a footnote), with the certificate total of \$5,735
- Additional cost for supplies approximately \$150

PROGRAM PREPARATION AND PREREQUISITES

Recommend:

- High school diploma or GED
- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Minimum placement scores resulting in MTH 060/CUL 090 placement or completion of MTH 020/031 ("C" or better)

MINIMUM GPA OR GRADE REQUIREMENTS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

The required courses for the certificate are listed below under Program Course Requirements. Students should consult their advisor if they have transfer credits, are not able to attend full time or are not at college level in reading, writing and math.

PROGRAM STANDARDS

Academic dishonesty will not be tolerated and can result in the offending student being dropped from the program. Students wishing reinstatement must seek endorsement from the department chair after completing a progressive review.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM COURSE REQUIREMENTS

The following is a suggested course of study for students interested in pursuing a Hospitality Management certificate and will depend on course availability. A recommended sequence of the courses required for this certificate is listed below.

Level 1 Foundation Courses

Level I I Ot	illuditori Courses	
BA 217	Accounting Fundamentals	4
CIS 120	Computer Concepts	0-4
or Computer	Competency Test	
CIS 131	Software Applications	4
CUL 901	Culinary Math	4
CUL 101 ¹	Introduction to Culinary Arts	4
CUL 1021	Food Safety and Sanitation	2
HM 101	Introduction to Hospitality	4
HM 1301	Hospitality Supervision	4
LIB 100	Introduction to Finding Information	1
WR 121	Academic Composition	3-4
or BA 214	Business Communications	
Level 2 Cor	e Courses	
HM 106	Lodging Management	3
HM 150 ¹	Procurement	3
HM 160 ¹	Wine and Beverage Management	3 3 3 5
HM 190 ¹	Dining Room Operations	5

FOOTNOTE

HM 2101

¹ Specific courses taught at the Cascade Culinary Institute carry a fee of \$185 per credit.

Menu Composition and Analysis

Program Descriptions

HUMAN SERVICES

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

Human Services programs prepare students to work for organizations that serve people in need. Students learn the theories, principles and practice of providing services. Human Services jobs can include drug abuse counselor, youth worker, mental health aide or probation officer and provide services to schools, prisons, government agencies and nonprofit groups.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

	DUCATION/FOUNDATIONAL REQUIREMEN	ITS
Writing WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	
Oral Commu	nication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher)	Math in Society	4
Recommend: MTH 111	College Algebra	
•	dits with HHP prefix) ourses (1 credit each) are not to be duplicated	3
See the Discipl	DUCATION/DISCIPLINE STUDIES ine Studies list for options. One of the courses must the list as a cultural literacy course.	be be
Arts and Lett At least three (t ers 3) courses chosen from at least two (2) prefixes.	9-12
Social Science At least four (4 Recommend:	ce) courses from at least two (2) prefixes.	12-16
HS 206	Group Skills for Human Services	4
HS 208 HS 209	Multicultural Issues in Human Services ¹	4
	Introduction to Psychological Trauma	4
At least four (4	n/Computer Science courses from at least two (2) prefixes including at atory courses in biological and/or physical science. 	12-20 least
HS 224	Psychopharmacology	4

ELECTIVES

32 credits from the Addictions Studies/Counseling Certificate will be applied toward elective credits. No additional elective credits are needed to earn the AAOT.

FOOTNOTES

¹ Recommended to meet cultural literacy requirement.

ADVISING NOTES

Locally, OSU, Cascades offers a bachelor's degree with a major in Human Development and Family Science, Human Services option. This degree requires careful and accurate planning of the first 90 credits. Details can be found at osucascades.edu/academics/hdfs.

Students pursuing a BA after transfer should consider completing three terms of a 200-level language course. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement.

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HUMANITIES

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

Oregon and other universities offer bachelor's degrees in specific and interdisciplinary fields of the humanities, which include literature and writing, modern and classical languages, philosophy and ethics, theory and criticism of the arts, history, humanistic content and methods of other social sciences, as well as the "study and application of the humanities to the human environment with particular attention to reflecting our diverse heritage, traditions and history and to the relevance of the humanities to the current conditions of national life" (National Endowment for the Humanities). Many U.S. and global careers are open to students with a solid humanities foundation, which includes strong writing, reading, critical thinking and research skills, as well as proficiency in one or more world languages.

COCC's Humanities department offers courses in:

- English (American, British, Children's and Western World Literature and Introduction to Literature: Fiction, Drama, Poetry, Autobiography)
- Humanities (American Multiculturalism, Women's Studies, Film Arts, Non-Western Cultures and Literature, Popular Culture)
- Reading
- Writing (English Composition, Technical Writing and Creative Writing: Fiction, Non-Fiction, Poetry, Scriptwriting)

COCC also offers courses in history, music, art history, world languages and philosophy.

A combination of these courses may be used to satisfy lower-division requirements for bachelor's degrees and to prepare transfer students for success in achieving their academic and professional goals. Students seeking a bachelor's degree in humanities fields are often best served by pursuing the Associate of Arts degree. COCC transfer students are encouraged to consult college catalogs and work closely with their advisors.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in humanities.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

	CONTROL OF THE RESERVENCE IN THE RESERVE T	_
Writing WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
Oral Commu	nication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher)	Math in Society	4
Recommend: MTH 111	College Algebra	

Health (3 credits with HHP prefix) 3 HHP activity courses (1 credit each) are not to be duplicated

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Letters 9-12
At least three (3) courses from at least two (2) prefixes.

Social Science 12-16
At least four (4) courses from at least two (2) prefixes.

Science/Math/Computer Science 12-20

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

ELECTIVES

Students must choose enough electives to reach the minimum of 90 credits required for the AAOT.

TRANSFER INFORMATION

Transfer students seeking a bachelor's degree in specific or interdisciplinary humanities fields are advised to select General Education/Discipline Studies and elective courses that will also fulfill major and minor requirements at the destination university to which they intend to transfer. COCC transfer students are encouraged to consult college catalogs and work closely with their advisors.

MANUFACTURING TECHNOLOGY

PREREQUISITES, STANDARDS AND REQUIREMENTS

MANUFACTURING TECHNOLOGY CNC MACHINING

Certificate of Completion - 44 credits

PROGRAM INFORMATION

The following information applies to all Manufacturing programs. See individual certificate and degree descriptions for specific information.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

- Program fees of \$35-\$135 per class are assessed when taking classes with Amatrol-based content. See online class schedule for classspecific fees. Classes that have Amatrol content include: MFG 101, 110, 115, 133, 211, 213.
- Welding personal protective equipment and tools, approximately \$400.

PROGRAM PREPARATION AND PREREQUISITES

Recommended prior to entry in program (MFG) courses:

- · High school diploma or GED
- Minimum placement scores resulting in WR 065 placement or prior completion of WR 060 or higher ("C" or better)
- Minimum placement scores resulting in MTH 020 placement or prior completion of MTH 010 or higher ("C" or better)
- Successful completion of or current enrollment in MATC new-student orientation class MFG 100
- Certificate courses require instructor permission
- · Recommended completion of CIS 070 or equivalent skills

MINIMUM GPA OR GRADE REQUIREMENTS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

Nearly all MATC courses are self-directed, outcome-based curricula. This provides students with a greater degree of flexibility than most other COCC programs. The MATC hours of operation provide students with ample time to complete their coursework during a term.

Upon starting their program, students review their desired certificate or degree outcome with their advisor and a sequence of coursework is identified for them. With the exception of classes in a series (e.g. Manufacturing Processes I, II, III) or those with specific prerequisites (as identified in the catalog) most classes can be taken in any order, provided that instructor permission is obtained.

PROGRAM STANDARDS

Students must maintain a minimum 2.0 GPA each term while enrolled in the program (MFG) courses. Students who do not meet this standard may be dismissed from the program. Students wishing to re-enter the program after being dismissed must gain the prior approval of their MATC advisor.

NATIONAL AND/OR STATE LEGAL ELIGIBILITY REQUIREMENTS FOR LICENSURE OR ENTRY INTO OCCUPATION

Employer requirements vary considerably regarding secondary certifications in Manufacturing. The MATC offers certification preparation classes to assist students in obtaining certifications.

Students desiring specific certifications such as those provided by American Welding Society (AWS) or Society of Manufacturing Engineers (SME) should discuss this with their advisor.

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions. Prior to starting any MATC program, students are advised to contact the institution to which they intend to transfer and identify what credits may be transferrable.

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, CNC Machining

PROGRAM DESCRIPTION

The CNC Machining one-year certificate of completion program is a self-directed, outcome-based program designed to prepare students for technician-level employment in manufacturing environments using CNC equipment. The program is offered exclusively at the Manufacturing and Applied Technology Center (MATC) at COCC's Redmond Campus. Department approval is required for enrollment at the Manufacturing and Applied Technology Center.

All credits required to satisfy the requirements of this one-year certificate can also be applied toward the Associate of Applied Science (AAS) degree in Manufacturing Technology.

PROGRAM REQUIREMENTS

SUPPORT COURSES

CIS 070 (or higher)	Introduction to Computers: Windows	2
MTH 085 (or higher)	Technical Math I	4
WR 060 (or higher)	Rhetoric and Critical Thinking	4

CORE REQUIREMENTS MFG 100 MATC Orientation MFG 101 Blueprint Reading 2 MFG 103 Welding Technology I 3 3 MFG 110 Manufacturing Processes I 3 MFG 112 Manufacturing Processes II MFG 114 Manufacturing Processes III

MFG 115	Design Processes I	2
MFG 133	Quality Assurance	3
MFG 202	Metals Preparation	2
MFG 211	CNC Mill Operator	2
MFG 213	CNC Lathe Operator	2
MFG 230	CNC Programming Mill	2
MFG 232	CNC Programming Lathe	2
MFG 234	CAD/CAM Mill	2
MFG 236	CAD/CAM Lathe	2

TOTAL: 44

MANUFACTURING TECHNOLOGY INDUSTRIAL MAINTENANCE

Certificate of Completion - 44 credits

MANUFACTURING TECHNOLOGY MANUAL MACHINING

Certificate of Completion - 42 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Industrial Maintenance

PROGRAM DESCRIPTION

The Industrial Maintenance one-year certificate of completion program is a self-directed, outcome-based program designed to prepare students for technician-level employment in industrial maintenance in a manufacturing environment. The program is offered exclusively at the Manufacturing and Applied Technology Center (MATC) at COCC's Redmond Campus. Department approval is required for enrollment at the Manufacturing and Applied Technology Center.

All credits required to satisfy the requirements of this one-year certificate can also be applied toward the Associate of Applied Science (AAS) degree in Manufacturing Technology.

PROGRAM REQUIREMENTS

SUPPORT COURSES

CIS 070 (or higher)	Introduction to Computers: Windows	2
MTH 085 (or higher)	Technical Math I	4
WR 060 (or higher)	Rhetoric and Critical Thinking I	4

CORE REQUIREMENTS

MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 102	Blueprint Reading Sheet Metal	2
MFG 103	Welding Technology I	
MFG 109	Lean Practices	2
MFG 110	Manufacturing Processes I	3
MFG 116	Manufacturing Electrical Systems	2
MFG 118	Fluid Power Systems	2 2 2
MFG 160	Materials Engineering	2
MFG 241	Electric Motor Control	
MFG 242	Programmable Logic Controllers I	2
MFG 243	Industrial Sensors	2 2
MFG 244	Programmable Logic Controllers II	2
MFG 245	Electrical Controls/Fluid Power	2 2
MFG 246	Mechanical Troubleshooting	2
MFG 267	Oxygen Fuel and Plasma Cutting	2
MFG 289	Material Handling-Fork Lift Safety	1

TOTAL: 44

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Manual Machining

PROGRAM DESCRIPTION

The Manual Machining one-year certificate of completion program is a self-directed, outcome-based program designed to prepare students for technician-level employment in manufacturing environments using manual machining equipment. The program is offered exclusively at the Manufacturing and Applied Technology Center (MATC) at COCC's Redmond Campus. Department approval is required for enrollment at the Manufacturing and Applied Technology Center.

All credits required to satisfy the requirements of this one-year certificate can also be applied toward the Associate of Applied Science (AAS) degree in Manufacturing Technology.

PROGRAM REQUIREMENTS

SUPPORT COURSES

CIS 070 (or higher)	Introduction to Computers: Windows	2
MTH 085 (or higher)	Technical Math I	4
WR 060 (or higher)	Rhetoric and Critical Thinking I	4

CORE REQUIREMENTS

MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 103	Welding Technology I	3
MFG 110	Manufacturing Processes I	3
MFG 112	Manufacturing Processes II	3
MFG 114	Manufacturing Processes III	3
MFG 115	Design Processes I	2
MFG 133	Quality Assurance	3
MFG 202	Metals Preparation	2
MFG 203	Layout	2
MFG 205	Drill Press	2
MFG 210	Vertical Milling	2
MFG 214	Lathe Operator I	2
MFG 216	Lathe Operator II	2

TOTAL: 42

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Program Descriptions

MANUFACTURING TECHNOLOGY

Certificate of Completion 47 credits

MANUFACTURING TECHNOLOGY QUALITY ASSURANCE

Certificate of Completion - 43 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Manufacturing Technology

PROGRAM DESCRIPTION

The Manufacturing Technology one-year certificate of completion program is a self-directed, outcome-based program designed to prepare students for technician-level employment in a variety of manufacturing environments. The program is offered exclusively at the Manufacturing and Applied Technology Center (MATC) at COCC's Redmond Campus. Department approval is required for enrollment at the Manufacturing and Applied Technology Center.

All credits required to satisfy the requirements of this one-year certificate can also be applied toward the Associate of Applied Science (AAS) degree in Manufacturing Technology.

PROGRAM REQUIREMENTS

SUPPORT COURSES

Business Human Relations	3
Applied Psychology	
Interpersonal Communication	
Introduction to Computers: Windows	2
Technical Math I	4
Rhetoric and Critical Thinking I	4
	Applied Psychology Interpersonal Communication Introduction to Computers: Windows Technical Math I

CORE REQUIREMENTS

MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 103	Welding Technology I	3
MFG 105	Welding Technology II	3
MFG 107	Welding Technology III	3
MFG 109	Lean Practices	2
MFG 110	Manufacturing Processes I	3
MFG 112	Manufacturing Processes II	3
MFG 114	Manufacturing Processes III	3
MFG 115	Design Processes I	2
MFG 116	Manufacturing Electrical Systems	2
MFG 118	Fluid Power Systems	2
MFG 133	Quality Assurance	3
MFG 160	Materials Engineering	2

TOTAL: 47

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Quality Assurance

PROGRAM DESCRIPTION

The Quality Assurance one-year certificate of completion program is a self-directed, outcome-based program designed to prepare students for technician-level employment in manufacturing in the quality assurance field. The program is offered exclusively at the Manufacturing and Applied Technology Center (MATC) at COCC's Redmond Campus. Department approval is required for enrollment at the Manufacturing and Applied Technology Center.

All credits required to satisfy the requirements of this one-year certificate can also be applied toward the Associate of Applied Science (AAS) degree in Manufacturing Technology.

PROGRAM REQUIREMENTS

SUPPORT COURSES

CIS 070 (or higher)	Introduction to Computers: Windows	2
MTH 085 (or higher)	Technical Math I	4
WR 060 (or higher)	Rhetoric and Critical Thinking I	4

CORE REQUIREMENTS

MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 102	Blueprint Reading Sheet Metal	
MFG 103	Welding Technology I	2
MFG 109	Lean Practices	2
MFG 110	Manufacturing Processes I	2 3 3
MFG 112	Manufacturing Processes II	3
MFG 115	Design Processes I	2
MFG 133	Quality Assurance	2 3 2 2 2
MFG 160	Materials Engineering	2
MFG 202	Metals Preparation	2
MFG 203	Layout	2
MFG 238	Optical Comparator	1
MFG 239	Coordinate Measuring Machine	1
MFG 254	Manufacturing Jigs and Fixtures	2
MFG 262	Welding Inspection/Quality Control	2

TOTAL: 43

MANUFACTURING TECHNOLOGY WELDING

Certificate of Completion - 45 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Welding

PROGRAM DESCRIPTION

The Welding one-year certificate of completion program is a self-directed, outcome-based program designed to prepare students for technician-level employment in manufacturing environments using welding equipment. The program is offered exclusively at the Manufacturing and Applied Technology Center (MATC) at COCC's Redmond Campus. Department approval is required for enrollment at the Manufacturing and Applied Technology Center.

All credits required to satisfy the requirements of this one-year certificate can also be applied toward the Associate of Applied Science (AAS) degree in Manufacturing Technology.

PROGRAM REQUIREMENTS

SUPPORT COURSES

MTH 085	Technical Math I	4
(or higher)		
WR 060	Rhetoric and Critical Thinking I	4
(or higher)		

CORE REQUIREMEN	NTS	S
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MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 103	Welding Technology I	3
MFG 105	Welding Technology II	3
MFG 107	Welding Technology III	3
MFG 110	Manufacturing Processes I	3
MFG 202	Metals Preparation	2
MFG 262	Welding Inspection/Quality Control	2
MFG 267	Oxygen Fuel & Plasma Cutting	2
MFG 271	SMAW I	2
MFG 272	GMAW I	2
MFG 273	SMAW II	2
MFG 274	GMAW II	2
MFG 281	GTAW I	2
MFG 282	FCAW I	2
MFG 283	GTAW II	3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
MFG 284	FCAW II	2

TOTAL: 45





MANUFACTURING TECHNOLOGY

Two-Year Certificate of Completion 85 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Manufacturing Technology II

PROGRAM DESCRIPTION

The Manufacturing Technology two-year certificate of completion program is a self-directed, outcome-based program designed to prepare students for technician-level employment in a variety of manufacturing environments. The program is offered exclusively at the Manufacturing and Applied Technology Center (MATC) at COCC's Redmond Campus. Department approval is required for enrollment at the Manufacturing and Applied Technology Center.

PROGRAM REQUIREMENTS

SUPPORT COURSES

BA 285	Business Human Relations	3
or PSY 101	Applied Psychology	
or SP 218	Interpersonal Communication	
CIS 070	Introduction to Computers: Windows	2
(or higher)		
MTH 085	Technical Math I	4
(or higher)		
WR 060	Rhetoric and Critical Thinking I	4
(or higher)		

CORE REQUIREMENTS

MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 103	Welding Technology I	3
MFG 105	Welding Technology II	3
MFG 107	Welding Technology III	3
MFG 109	Lean Practices	2
MFG 110	Manufacturing Processes I	3
MFG 112	Manufacturing Processes II	3
MFG 114	Manufacturing Processes III	3
MFG 115	Design Processes I	2
MFG 116	Manufacturing Electrical Systems	2
MFG 118	Fluid Power Systems	2
MFG 133	Quality Assurance	3
MFG 160	Materials Engineering	2

MANUFACTURING ELECTIVES

Students must choose at least 38 credits from the following program electives:

program elec		
CIS 135S1	Solidworks 1	4
MFG 102	Blueprint Reading Sheet Metal	2
MFG 201	Benchwork	2 2 2
MFG 202	Metals Preparation	2
MFG 203	Layout	2 2 2 2
MFG 205	Drill Press	2
MFG 210	Vertical Milling	2
MFG 211	CNC Mill Operator	2
MFG 213	CNC Lathe Operator	2 2 2
MFG 214	Lathe Operator I	2
MFG 216	Lathe Operator II	2
MFG 230	CNC Programming Mill	2 2 2
MFG 232	CNC Programming Lathe	2
MFG 234	CAD/CAM Mill	2
MFG 236	CAD/CAM Lathe	2
MFG 238	Optical Comparator	1
MFG 239	Coordinate Measuring Machine	1
MFG 241	Electric Motor Control	2
MFG 242	Programmable Logic Controllers I	2 2 2
MFG 243	Industrial Sensors	2
MFG 244	Programmable Logic Controllers II	2
MFG 245	Electrical Controls/Fluid Power	2

MFG 246	Mechanical Troubleshooting	2
MFG 250	Additive Manufacturing	2
MFG 254	Manufacturing Jigs and Fixtures	2
MFG 262	Welding Inspection/Quality Control	2
MFG 264	Automated Welding/Cutting	2
MFG 266	Manufacturing Cost Estimating	2
MFG 267	Oxygen Fuel and Plasma Cutting	2
MFG 271	SMAW I	2
MFG 272	GMAW I	2
MFG 273	SMAW II	2
MFG 274	GMAW II	2
MFG 275	SMAW III	2
MFG 276	GMAW III	2
MFG 281	GTAW I	2
MFG 282	FCAW I	2
MFG 283	GTAW II	2
MFG 284	FCAW II	2
MFG 285	GTAW III	2
MFG 286	FCAW II	2
MFG 287	CNC Press Brake/Shearing	3
MFG 288	Industrial Fabrication	3
MFG 289	Material Handling-Fork Lift Safety	1
MFG 290	Certification Test Prep AWS I	1
MFG 291	Certification Test Prep NIMS I	1
MFG 292	Certification Test Prep AWS II	1
MFG 293	Certification Test Prep NIMS II	1
MFG 294	Certification Test Prep AWS III	1
MFG 295	Certification Test Prep NIMS III	1
MFG 296	Certification Test Prep SME	1
MFG 297	Certification Test Prep NAIT	1
	•	

TOTAL: 85 CREDITS

MANUFACTURING TECHNOLOGY

Associate of Applied Science (AAS) Degree 100 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Manufacturing Technology

PROGRAM DESCRIPTION

The Manufacturing Technology Associate of Applied Science (AAS) degree program is a self-directed, outcome-based program designed to prepare students for technician-level employment in a variety of manufacturing environments. The program is offered exclusively at the Manufacturing and Applied Technology Center (MATC) at COCC's Redmond Campus. Department approval is required for enrollment at the Manufacturing and Applied Technology Center.

PROGRAM REQUIREMENTS

SUPPORT COURSES

BA 285 or PSY 101 or SP 218	Business Human Relations Applied Psychology Interpersonal Communication	3
CIS 070 (or higher)	Introduction to Computers: Windows	2
CIS 120 (or higher)	Computer Concepts	4
HHP 252A	Fitness/First Aid	3
MFG 280	CWE Manufacturing	3
MTH 085 (or higher)	Technical Math I	4
SP 219	Small Group Communication	4
SP 250 or SP 252 or SP 253	Listening Team Skills Conflict Management	1
WR 060 (or higher)	Rhetoric and Critical Thinking I	4

CORE REQUIREMENTS

CONT KEEC	INCLINIC	
MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 103	Welding Technology I	3
MFG 105	Welding Technology II	3
MFG 107	Welding Technology III	3
MFG 109	Lean Practices	2
MFG 110	Manufacturing Processes I	3
MFG 112	Manufacturing Processes II	3
MFG 114	Manufacturing Processes III	3
MFG 115	Design Processes I	2
MFG 116	Manufacturing Electrical Systems	2
MFG 118	Fluid Power Systems	2
MFG 133	Quality Assurance	3
MFG 160	Materials Engineering	2

MANUFACTURING ELECTIVES

Students must choose at least 38 credits from the following program electives:

CIS 135S1	Solidworks 1	4
MFG 102	Blueprint Reading Sheet Metal	2
MFG 201	Benchwork	2
MFG 202	Metals Preparation	2
MFG 203	Layout	2
MFG 205	Drill Press	2
MFG 210	Vertical Milling	2
MFG 211	CNC Mill Operator	2
MFG 213	CNC Lathe Operator	2
MFG 214	Lathe Operator I	2
MFG 216	Lathe Operator II	2
MFG 230	CNC Programming Mill	2 2 2 2 2 2 2 2 2 2
MFG 232	CNC Programming Lathe	2

MFG 234	CAD/CAM Mill	2
MFG 234 MFG 236	CAD/CAM MIII CAD/CAM Lathe	2 2
MFG 238	Optical Comparator	1
MFG 236 MFG 239	Coordinate Measuring Machine	1
MFG 239 MFG 241	Electric Motor Control	2
MFG 241 MFG 242	Programmable Logic Controllers I	2
MFG 242 MFG 243	Industrial Sensors	2
MFG 244	Programmable Logic Controllers II	2
MFG 245	Electrical Controls/Fluid Power	2
MFG 246	Mechanical Troubleshooting	2
MFG 250	Additive Manufacturing	2
MFG 254	Manufacturing Jigs and Fixtures	2
MFG 262	Welding Inspection/Quality Control	2
MFG 264	Automated Welding/Cutting	2
MFG 266	Manufacturing Cost Estimating	2
MFG 267	Oxygen Fuel & Plasma Cutting	2
MFG 271	SMAW I	2
MFG 272	GMAW I	2
MFG 273	SMAW II	2
MFG 274	GMAW II	2
MFG 275	SMAW III	2
MFG 276	GMAW III	2
MFG 281	GTAW I	2
MFG 282	FCAW I	2
MFG 283	GTAW II	2
MFG 284	FCAW II	2
MFG 285	GTAW III	2
MFG 286	FCAW II	2
MFG 287	CNC Press Brake/Shearing	3
MFG 288	Industrial Fabrication	3
MFG 289	Material Handling-Fork Lift Safety	1
MFG 290	Certification Test Prep AWS I	1
MFG 291	Certification Test Prep NIMS I	1
MFG 292	Certification Test Prep AWS II	1
MFG 293	Certification Test Prep NIMS II	1
MFG 294	Certification Test Prep AWS III	1
MFG 295	Certification Test Prep NIMS III	1
MFG 296	Certification Test Prep SME	1
MFG 297	Certification Test Prep NAIT	1

TOTAL: 100 CREDITS

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MASSAGE THERAPY PROGRAM

PREREQUISITES, STANDARDS AND REQUIREMENTS

PROGRAM DESCRIPTION

The program focuses on integrating the sciences relating to the human body with the theories and practice of massage therapy. Massage therapy students develop many skills that include a variety of massage techniques and modalities, methods to maintain client and business records, understanding the importance of client/practitioner boundaries, client communication skills and the use of universal sanitation practices.

PROGRAM INFORMATION

The certificate of completion requires four terms of full time enrollment to complete and one term of prerequisite courses. The AAS degree will require an additional four terms of full time enrollment to complete.

Instructor to student ratios are as follows:

- 1:10 in hands-on courses
- 1: 26 for lecture courses

The COCC massage therapy program is accredited by the Commission on Massage Therapy Accreditation (COMTA). The COCC massage therapy facilities include two dedicated state-of-the-art classrooms and storage areas for the Licensed Massage Therapy (LMT) program. The classrooms are equipped with full multi-media support, massage tables, stools and other related massage therapy equipment. All linens, lotions, oils and support equipment/supplies are provided for classroom instruction.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following program costs:

 Program fees per credit for all LMT 	courses \$25
First year LMT	an additional \$17 per credit
 Textbooks 	\$600-\$700
Massage Table	\$400-\$700
Black COCC logo polo shirt	\$40

MASSAGE WORKPLACE COSTS

	LASSAGE WORK LAGE GOSTS	
•	Oregon Board of Massage Therapist License	\$150
•	CPR certification	\$35
•	Massage table	\$400-\$700
•	Massage chair	\$200-\$400
•	Bolster	\$30-\$40
•	Sheets and blanket	\$75
•	Lotion bottle and holster	\$25
•	Lotions	\$45

PROGRAM PREPARATION AND PREREQUISITES

Required prior to entry in LMT program courses:

- 18 years of age
- High school diploma or GED
- Completion of BI 121 or BI 122 or BI 231
- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 ("C" or better)
- Placement score into MTH 020 or complete MTH 010 or higher ("C" or better)

MINIMUM GPA OR GRADE REQUIREMENTS

The Massage Therapy certificate of completion and Associate of Applied Science degree require that all courses must be completed with a grade of "C" or better. Students must maintain a 2.0 overall GPA to graduate.

ATTENDANCE

Verification of contact hours is required by the Oregon Board of Massage Therapists licensing requirements. A LMT program student must meet the Oregon Board of Massage Therapists attendance requirement of 90% contact hour completion for each LMT course contact hours as identified on all LMT course syllabi.

REGISTRATION INFORMATION

Students are offered two opportunities to enter the Massage Therapy program each year including a Fall day-program start and a Spring evening-program start. Each program start requires the block of courses to be completed before moving to the next sequence of related courses. Students may take non-massage therapy courses (any course that does not begin with a LMT prefix) at any time prior to enrollment into the LMT program or during enrollment in the LMT program if time is available.

PROGRAM STANDARDS

The following actions will result in an action plan or probationary status of a student in the LMT program:

- Poor personal hygiene resulting in verbal notification to the student that may include, but is not limited to: perfumes, smoking and hygiene.
- Improper attire that exposes the midriff, the gluteal cleft or breast cleavage.
- Continued failure to maintain an academic level of "C."
- Unsatisfactory attendance or excessive tardiness (3 tardies = 1 absence).
- Missing more than 10 percent of classroom instruction.
- Behaving in an illegal or non-professional manner or in any manner that may harm another student, a staff member, college employee, or the massage therapy profession's reputation and/or the Central Oregon Community College LMT program's reputation.
- Behaving in a manner that interferes with class instruction or class participation such as sleeping, non-participation, illness or aggressive actions.
- Attending courses under the influences of alcohol, illegal drugs or prescription drugs that adversely affect behavior.
- · Failure to be current on tuition payments.
- Displaying inappropriate sexual overtures or behaviors.
- Harassment or verbal abuse toward any student, staff member or clinic participant that may include rudeness, ridiculing or condescending actions.
- Failure to comply with an action plan or probationary requirements as designated in a written plan.

LICENSING IN OREGON

Massage therapy is regulated by the state of Oregon and licensure requirements are subject to change. Local ordinances may apply in absence of a state law. Applicants for a massage therapy license in Oregon are required to take an approved national written exam in order to license. Eligibility to license is based on 625 contact hours. This requirement includes a minimum combined total of 200 hours in anatomy with a lab, kinesiology and pathology and a combined total of 300 hours in massage theory, ethics, business and a supervised clinic. Applicant must also provide a current CPR card and fingerprints. Applicants may apply for a massage license after passing the approved national written exam requirement and completing the above requirements; the license is contingent on a background check.

MASSAGE THERAPY PROGRAM (continued)

PREREQUISITES, STANDARDS AND REQUIREMENTS

LICENSING IN OTHER STATES

Regulations that govern massage therapy vary from state to state. Students will find information on states that regulate massage therapy by contacting the:

AMTA (American Massage Therapy Association) 500 Davis Street, Suite 900 Evanston, IL 60201 877.905.0577 info@amtamassage.org amtamassage.org

or the

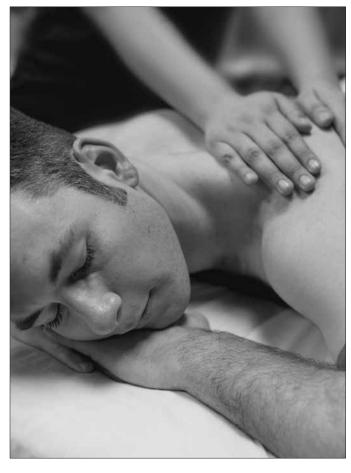
ABMP (Associated Bodywork and Massage Professional) 25188 Genesee Trail Road, Suite 200 Golden, CO 80401 expectmore@abmp.com abmp.com

Students are advised to check municipal ordinances that may apply to the practice of massage therapy in the absence of state law.

A student who has been arrested or convicted of a crime, excluding minor traffic violations, or has been sanctioned by any other licensing agency in any state or jurisdiction will be required to provide a copy of the police report, a copy of the judgment and a copy of the settlement of the judgment or final order to the Oregon Board of Massage Therapists when applying for the state license.

An arrest record and/or conviction does not automatically result in denial of licensure. The Oregon Board of Massage Therapists will require that an applicant submit to fingerprinting and may use the fingerprints to request a criminal records check of the applicant. For information, see the Oregon Board of Massage Therapists website: oregon.gov/OBMT/Pages/FAQ.aspx.

Students, whose past history may interfere with their ability to complete the program of study or to obtain licensure in the massage therapy field, should contact the appropriate state board or discuss this with the program director.





Program Descriptions

MASSAGE THERAPY

Certificate of Completion 57-62 credits

MASSAGE THERAPY

Associate of Applied Science (AAS) Degree 91-103 credits

TRANSFER INFORMATION

This certificate prepares students planning to enter the massage therapy career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Massage Therapy

PROGRAM REQUIREMENTS

		0.10
BI 121, 122	Anatomy and Function I, II	8-12
or BI 231, 232,	, 233 Anatomy and Physiology I, II, III	
LMT 113	Kinesiology I	4
LMT 118	Kinesiology II	4
LMT 124	Kinesiology III	4
LMT 130	Massage Fundamentals	2
LMT 135	Managing a Massage Practice	3
LMT 140	Pathology	4
LMT 145	Massage I	4
LMT 150	Massage II	4
LMT 155	Eastern Theory and Practice	2
LMT 160	Hydrotherapy	1
LMT 170	Professional Ethics and Rules	2
LMT 175	Swedish Relaxation Clinic	2
LMT 180	Therapeutic Clinic	3
MTH 020	Pre-Algebra	3-4
(or higher)	-	
SP 218	Interpersonal Communication	3
WR 121	Academic Composition	4
	•	

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Massage Therapy

PROGRAM REQUIREMENTS

BA 111	Applied Accounting	3
BA 214	Business Communications	3
BI 121, 122	Anatomy and Function I, II	8-12
or BI 231, 232,	233 Anatomy and Physiology I, II, III	
CIS 120	Computer Concepts	0-4
or Computer Co	ompetency Test	
LMT 113	Kinesiology I	4
LMT 118	Kinesiology II	4
LMT 124	Kinesiology III	4
LMT 130	Massage Fundamentals	2
LMT 135	Managing a Massage Practice	3
LMT 140	Pathology	4
LMT 145	Massage I	4
LMT 150	Massage II	4
LMT 155	Eastern Theory and Practice	2
LMT 160	Hydrotherapy	1
LMT 170	Professional Ethics and Rules	2
LMT 175	Swedish Relaxation Clinic	2
LMT 180	Therapeutic Clinic	3
LMT 200 level	electives	15
LMT 210	Community Outreach	2-4
or LMT Advance	ced Clinic course substitutions ¹	
LMT 245	Effective Office Decisions	2
MTH 020	Pre-Algebra	3-4
(or higher)		
SP 218	Interpersonal Communication	3
WR 121	Academic Composition	4
Choose two cou	urses from the Discipline Studies list	6-10
Health ²		3-4

Choose one of the following two options:

Option 1

HHP 252A Fitness/First Aid

Option 2

Any one course listed below and an activity/health module:

HHP 231	Human Sexuality
HHP 242	Stress Management
HHP 258	Holistic Wellness
HHP 266	Nutrition for Health
HHP 295	Health & Fitness

FOOTNOTES

¹ Choose from the following Advanced Clinic course substitutions:

FN 225	Human Nutrition (4)
HHP 131	Introduction to Exercise/Sport Science (3)
HHP 231	Human Sexuality (3)
HHP 242	Stress Management (3)
HHP 248	Health Psychology (3)
HHP 252A	Fitness/First Aid (3)
HHP 258	Holistic Wellness (3)
HHP 259	Care and Prevention of Athletic Injury (3)
HHP 260	Anatomical Kinesiology (4)
HHP 261	Exercise Physiology (4)
HHP 262	Training Theory and Applications (3)
HHP 266	Nutrition for Health (3)
HHP 270	Sport and Exercise Psychology (3)
HHP 295	Health and Fitness (3)
² HHP 252A is	recommended

MATHEMATICS

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in mathematics.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

GENERAL EDUCATION OF CONDATIONAL REQUIREMENTS		
Writing WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	ınication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher)	Math in Society	4
Recommend: MTH 111	College Algebra	
Health (3 credits with HHP prefix) HHP activity courses (1 credit each) are not to be duplicated		3

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Letters At least three (3) courses from at least two (2) prefixes.	9-12
Social Science At least four (4) courses from at least two (2) prefixes.	12-16
Science/Math/Computer Science	12-20
At least four (4) courses from at least two (2) prefixes including three (3) laboratory courses in biological and/or physical science	

MTH 112	Trigonometry	4
PH 211	General Physics I	5
PH 212	General Physics II	5
PH 213	General Physics III	5

ELECTIVES		
CIS 120	Computer Concepts	4
CIS 122	Introduction to Programming	4
MTH 105	Math in Society	4
MTH 113	Topics in Precalculus	4
MTH 231	Discrete Mathematics I	4
MTH 243	Introduction to Probability and Statistics I	4
MTH 244	Introduction to Probability and Statistics II	4
MTH 245	Mathematics for Management,	
	Life and Social Sciences	4
MTH 251	Calculus I	4
MTH 252	Calculus II	4
MTH 253	Calculus III	4
MTH 254	Vector Calculus I	4
MTH 255	Vector Calculus II	4
MTH 256	Applied Differential Equations	4

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MEDICAL ASSISTANT

Certificate of Completion 70-78 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Medical Assistant

PROGRAM DESCRIPTION

The Medical Assistant program is a five- to six-term program that trains individuals to assist with clinical and administrative procedures in outpatient medical settings under the direction of a health care provider. Medical Assistant program courses begin once per year in the Fall. All program courses offered each term must be taken together and in sequence. Upon successful completion of the program, students receive a certificate of completion from COCC and are eligible to submit an application to sit for the AAMA Certified Medical Assistant (CMA) certification examination. Upon passing the AAMA exam, medical assistants earn the CMA. The COCC Medical Assistant program is accredited by the Commission on Accreditation of Allied Health Education Programs upon the recommendation of Medical Assisting Education Review Board (MAERB).

Commission on Accreditation of Allied Health Education Programs 25400 US Highway 19 North, Suite 158 Clearwater, FL 33763 727.210.2350 caahep.org

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often, only selected credits are considered transferrable to public or private baccalaureate institutions.

COST OF PROGRAM

Due to the rapidly changing nature of health care and associated costs, the following are only estimates:

Materials and Services

Stethoscope	\$30
Blood pressure cuff	\$20
Uniform	\$60
Books	\$500 per term
Course and lab packets	\$60-\$100 per term
Lab fees	\$650-\$765
Immunizations & titers	\$600
Immunizations tracking	\$10
Criminal history check	\$55
Urine drug screen	\$45
CPR & First Aid Card	\$60

PROGRAM PRE-ENTRY REQUIREMENTS DUE PRIOR TO FALL TERM

Students must be 18 years of age or older to participate in program classes (those beginning with the letters MA). Documents required for entry into the Medical Assisting program must be submitted after students register for program classes. A letter of instruction is emailed to all registered and waitlisted students at the end of Spring term with an assigned documentation due date. Failure to submit the required paperwork by the assigned date will result in administrative withdrawal from the program. The following documents are required prior to entry into the Medical Assistant program:

- High school diploma or high school transcript noting successful graduation or GED.
- Completion of all prerequisite classes with a grade of "C" or better.
- Criminal history check, with vendor chosen by COCC, as a condition of acceptance into program classes.

- Students with criminal convictions noted on the DHS permanent, 10-year or 5-year review list will be disqualified from attending the MA program until their criminal record has been cleared. For a list of disqualifying crimes, see arcweb.sos.state.or.us/pages/rules/ oars_400/oar_407/407_007.html or the background check links at cocc.edu/medical-assistant/additional-requirements.
- 10 panel drug screen completed as a condition of enrollment into program classes.
 - Students must complete a 10 panel urine drug screen with the vendor chosen by COCC prior to entry into Medical Assistant program classes.
 - With the exception of certain prescribed medications, students
 with a positive drug screen, which prevents them from attending
 clinical, will be disqualified from entering the program. Please
 refer to the Medical Assisting Program Handbook and website
 cocc.edu/medical-assistant for more detailed information.
- Documentation of current immunizations (CDC adult schedule).
 - Hep B, MMR, Varicella, Flu, Tdap, TB blood test
- Additional immunizations or background checks may be required by practicum sites at the student's expense.
- Students who leave or are dropped from the program may re-enter the
 next Fall with the permission of the program director. In rare cases, a
 student may re-enter at a different point in the program on a space
 available basis and with permission from the director of the program.
 Students may be required to repeat demonstrations of previous
 competencies to ensure they have retained the required skills and
 knowledge to progress in the program.

MINIMUM GPA OR GRADE REQUIREMENTS

All courses must be completed with a "C" or better and graduates must have an overall 2.0 GPA or higher.

In order to earn a "C" in a course with a MA prefix, students must pass 100 percent of psychomotor and affective competencies, average 75 percent overall in the class, pass 75 percent of check-offs on the first attempt and average 75 percent on exams.

REGISTRATION INFORMATION

Program (MA) courses begin once per year in Fall term. Students wishing to register in the Fall MA cohort must meet the basic prerequisite competencies and may register according to seat availability on a first-come, first-served basis, determined by the priority registration schedule. Students may view the priority registration schedule at cocc.edu. After successful registration into the MA program, MA courses must be taken together and sequentially. Please see the Medical Assisting program website cocc.edu/medical-assistant for more information or contact the program director and/or the CAP Center.

PROGRAM STANDARDS

Students must maintain an average of 75 percent on tests and 75 percent overall in each class to progress to subsequent core program classes. Students must pass 75 percent of lab skills check-offs on the first attempt to progress to subsequent core program classes. Students must demonstrate medication administration proficiency through a high score on a drug calculation exam prior to entering practicum. Students must complete 100 percent of psychomotor and affective competencies as identified by the program's accrediting body and complete a minimum of 160 hours of practicum to complete the program.

MEDICAL ASSISTANT (continued)

Certificate of Completion 70-78 credits

PROGRAM COURSE REQUIREMENTS

Prerequisite Courses		
Medical Terminology I	3	
Medical Terminology II	3	
Introduction to the Study of Disease	5	
Anatomy and Function I, II	8-12	
, 233 Human Anatomy and Physiology I, II, III		
Computer Keyboarding	1	
prior to entry or any time during the program)		
Computer Concepts	0-4	
ompetency Test		
Intermediate Algebra or higher	4	
Interpersonal Communication	3	
Academic Composition	4	
	Medical Terminology I Medical Terminology II Introduction to the Study of Disease Anatomy and Function I, II , 233 Human Anatomy and Physiology I, II, III Computer Keyboarding prior to entry or any time during the program) Computer Concepts ompetency Test Intermediate Algebra or higher Interpersonal Communication	

Core Requirements

MA core courses are taken together and sequentially after students have registered for the Medical Assistant program.

MA 110	Introduction to Clinical Medical Assisting	7
MA 111	Introduction to Professional Medical Assisting	5
MA 120	Clinical Medical Assisting II	7
MA 121	Administrative Medical Assisting	5
MA 137	Application of Professional Medical Assisting	4
MA 140*	Nutrition, CPR and First Aid for Medical Assistants	3
MA 147	Medical Assistant Practicum I	5
MA 150	Pharmacology for Medical Assistants	3
*C+d =l	as de pat agua vaguinad CDD/Einst Aid agual duning this	

^{*}Students who do not earn required CPR/First Aid cards during this course will be required to earn these at their own expense prior to the start of practicum.





MEDICAL IMAGING

Associate of Science (AS) Degree – Preparation for Transfer to Oregon Institute of Technology 90 credits

Central Oregon Community College does not have a degree in medical/diagnostic imaging, but offers many prerequisite courses required for entry into such a program. The following information is informed generally by Oregon Institute of Technology's Medical Imaging (oit. edu/mit) degree requirements, but students should check with their destination college to confirm requirements. Linn-Benton Community College and Portland Community College are other Oregon colleges offering this type of program.

GENERAL EDUCATION

All courses must be completed with a grade of "C" or better.

Writing		
WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
Oral Commu	nication	
SP 111	Fundamentals of Public Speaking	4
Mathematics		
MTH 111	College Algebra	4
Health		
HHP 295	Health and Fitness	3
Arts and Lett	ers	
Choose two (2)	courses from the Discipline Studies list	6-8
Social Science	e	
PSY 201	Mind and Brain	4
or PSY 202	Mind and Society	
Choose one (1)	additional course from the Discipline Studies list	3-4
Science/Math	n/Computer Science	
	Course from the Discipline Studies list	3_5

Choose one (1) course from the Discipline Studies list	3-5
PROGRAM R	REQUIREMENTS	
AH 111	Medical Terminology I	3
BI 231	Human Anatomy and Physiology I	4
BI 232	Human Anatomy and Physiology II	4
BI 233	Human Anatomy and Physiology III	4
CH 104	Introduction to Chemistry I	5
or CH 221	General Chemistry I	
MTH 112	Trigonometry	4

ELECTIVES

Choose enough electives to reach a minimum total of 90 overall degree credits. Elective credits must number 100 or above with a maximum of 12 CTE credits and 15 credits of CWE/HHP performance courses.

ADVISING NOTES

OIT requires students to take MIT 103 in order to apply to the program; this course is offered online and can be used in the elective category of the AS degree. Another course recommended by OIT (and the AS requirement it can be used to meet) is WR 227 (elective).





MUSIC

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The mission of COCC's Music program is to provide the opportunity for music majors pursuing a transfer degree (and those simply interested in music) to take the core courses that are typically required in the first two years of a bachelor's of music program. This includes music fundamentals, class piano, two years of music theory and musicianship and a listening-based class called Understanding Music. Additionally, most music schools require participation in a major ensemble and private lessons in voice or instrument every term. To that end, we have no fewer than six ensembles in which a student can participate, including the Cascade Chorale, College Choir, Central Singers, Big Band Jazz, Cascade Winds Symphonic Band and Central Oregon Symphony.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in music.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

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GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writ	ting
MAID	101

WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	unication	
SP 111	Fundamentals of Public Speaking	3-4
or SP 114	Argumentation and Critical Discourse	
or SP 115	Introduction to Intercultural Communication	
or SP 218	Interpersonal Communication	
or SP 219	Small Group Communication	
Mathematics	s	
MTH 105	Math in Society	4
(or higher)		
Recommend:		
MTH 111	College Algebra	
Health (3 cre	dits with HHP prefix)	3
HHP activity co	ourses (1 credit each) are not to be duplicated	

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Letters

9-12

At least three (3) courses chosen from at least two (2) prefixes. Recommend MUS 101, MUS 201 and MUS 111 as well as another non-music Arts and Letters course. Additional MUS courses will be applied to the AAOT as elective credits.

Social Science

12-16

At least four (4) courses from at least two (2) prefixes.

12-20

Science/Math/Computer Science

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

ELECTIVES

Choose enough electives to reach the minimum of 90 credits for the AAOT. Music majors should participate in a performing ensemble each term and take Musicianship IA, IB, IC, IIA, IIB and IIC, Music Theory IA, IB, IC, IIA, IIB and IIC and have proficient keyboard skills, which can be gained by taking Piano Class I, II and III.

MUS 201, 202 and 203 (Understanding Music), while not required, are excellent survey courses of music history, providing a solid background for future in-depth studies of music history.

Private lessons, (applied voice, violin, trombone, et cetera), while not required for the AAOT degree, are an integral part of the music major. Studying with a private teacher will foster individual growth, technique development, provide a solid background in solo repertoire, proper language enunciation as well as in-depth studies of music genres.

A second year of a world language is also recommended.

TRANSFER INFORMATION

All music schools have slightly different requirements and expectations of their music majors. While it is true that an Oregon college or university will accept the AAOT degree as a package, which allows students to transfer with junior class status, most music schools will not accept a direct transfer of credits for courses intended specifically for music majors, such as Music Theory. Instead, they will test students upon arrival to see what they have learned in their previous courses and then place them at the appropriate level for their program. It has been our experience that students who perform well in COCC music theory and musicianship courses regularly meet or exceed the requirements to continue on with the next level of study at the transfer institution (i.e., students who have completed the first year of theory typically test into the second year of theory at their new school).

Program Descriptions

NATURAL RESOURCES

Associate of Science (AS) Degree - Preparation for Transfer to Oregon State University 90-102 credits

The Associate of Science (Natural Resources/Oregon State University emphasis) fulfills 91-108 credits of the lower division requirements of a Bachelor of Science in Natural Resources (NR) from OSU – Cascades. Three options, NR Conservation and Technology, NR Policy and Management, and Fish and Wildlife Conservation are available at OSU, Cascades and COCC. Other universities' requirements for a Natural Resources degree may be similar. Students planning to transfer to any university Natural Resources program should meet with a COCC Forest Resources Technology advisor to discuss current transfer requirements.

This information reflects an accurate picture of OSU requirements at the time of approval, using the OSU catalog, advisors and web resources for consultation. However, degree requirements can and do change. OSU has made no guarantee about the accuracy of requirements in this AS degree; determination of transfer status is made on an individual course basis at the point of admission to OSU.

Courses must be completed with a grade of "C" or better.

BACCALAUREATE CORE

Skills

Writing I	WR 121 Academic Composition	4
Writing II	One course from the WR II list	3-4
Writing III	One course from the WR III list	4
Mathematics	Met by program requirements	
Fitness	HHP 295 Health and Fitness	3

Perspectives Courses

No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core. GEO courses listed under Physical Science are considered to be from a different department than GEO courses listed under any other Perspective category. Choose from the OSU Baccalaureate Core Courses listed on pages 246-247.

Choose one course in each of the following categories:

Physical Science

Met by Program Requirements

Biological Science

Met by Program Requirements

Physical or Biological Science

Met by Program Requirements

Western Culture

Choose one course from this category 3-4

Literature and the Arts

Choose one course from this category 3-4

Social Processes and Institutions

Met by Program Requirements

NATURAL R	ESOURCES PROGRAM REQUIREMENTS	
Choose BI 101	, 102, 103 or BI 211, 212, 213	12-15
CH 104	Introduction Chemistry	5
or CH 221	General Chemistry I	
EC 201	Microeconomics	4
FOR 208	Soils: Sustainable Ecosystems	4 2
FW 212	Survey of NW Birds	2
or FW 218	Survey of NW Mammals	
FOR 235	Resource Measurements	4
FOR 240A	Forest Ecology	3 3
FOR 241A	Field Dendrology	3
or FOR 241B	Dendrology	
FOR 251	Recreational Resource Management	3-4
or ANTH 103	Cultural Anthropology	
FW 251	Principles of Wildlife Conservation	3
G 201	Geology I	4
or G 202	Geology II	
or GEOG 278	Physical Geography: Landforms and Water	
GEOG 265	Geographic Information Systems	4
GEOG 279	Weather and Climate	4
MTH 243	Introduction to Probability and Statistics I	4
Choose one fro	om the following:	
MTH 112, 241	, 245, or 251	4

NATURAL RESOURCES OPTIONS

Select one of the following three options.

NR Conservation and Technology Option

FOR 230A	Map, Compass and GPS	3
FOR 230B	Forest Surveying	3
FOR 236	Aerial Photo	3
FOR 240B	Wildlife Ecology	3

Fish and Wildlife Conservation Option

Mind and Brain

Mind and Society

Introduction to Sociology

FOR 111	Forestry Perspectives	4
NR Policy	and Management Option	
FOR 111	Forestry Perspectives	4
Choose two	of the following course options:	7-8
PHL 201	Introduction to Philosophy	
PS 201	Introduction to US Government and Politics	

or PSY 202 SOC 201

PSY 201

FFFC11AF2		
Electives ²	(if needed to reach 90 credits, with a maximum of	0-4
	12 Career and Technical Education (CTE) credits)	

ADVISING NOTES

- ¹ Biology 211, 212 and 213 recommended.
- ² The following requirement is not part of this AS degree but is required at OSU: Perspectives: Cultural Diversity category (see Baccalaureate Core list on pages 246-247). Difference, Power and Discrimination is met by an upper division program requirement.

NURSING / NURSING ASSISTANT

Certificate of Completion 36-41 credits

DEGREE AS AWARDED ON TRANSCRIPT

Certificate Of Completion, Nursing Assistant

The Nursing Assistant program is a three-term program that trains individuals to perform authorized duties of the Nursing Assistant in acute care, sub-acute care and skilled nursing facilities and in other health care settings. Upon successful completion of all required support courses, Nursing Assistant level 1 with successful certification by the Oregon State Board of Nursing and CNA level 2, students are awarded a certificate of completion from COCC. The COCC Nursing Assistant level 1 and CNA level 2 courses are approved by the Oregon State Board of Nursing (971.673.0685 or oregon.gov/OSBN).

TRANSFER INFORMATION

This certificate is designed for students planning to enter the workforce upon graduation; most courses are not intended to transfer. However, some courses may be transferrable to public or private baccalaureate institutions for students who choose to pursue higher degrees.

COST OF PROGRAM

In addition to tuition and student fees there are material, service and supply costs associated with the program. The cost list is based on prices at the time the catalog is published and is only an approximation.

Stethoscope	\$30
Uniform	\$30-\$80
Books	\$500 per term
Course and lab packets	\$100 per term
Immunizations & titers	\$600
Immunizations tracking	\$10
Criminal background check	\$55
Urine drug screen	\$45
Nursing Assistant Competency Examination	\$106
Electronic fingerprinting	\$65
AHA Healthcare Provider CPR card	\$60

PROGRAM REQUIREMENTS

Documents required for entry into the Nursing Assistant program must be submitted AFTER students register for the program. A letter of instruction will be emailed to all registered and waitlisted students prior to term with assigned due dates. Failure to initiate requirements by the assigned date will result in administrative withdrawal from the program. The Oregon Health Authority and/or Oregon State Board of Nursing require the following documents, prior to entry into the Nursing Assistant program:

- Initiation of a criminal history check with Verified Credentials, Inc., as a condition of acceptance into the program.
 - Students with criminal convictions, noted on the Oregon State Board of Nursing; Nurse Practice Act; Division 63 851-063-0110: Criminal Conviction History/Falsification of Application: Denial of Certification/ Grounds for Discipline, which prevents them from attending clinical, will be disqualified from the Nursing Assistant program. The list of disqualifying crimes for the Oregon State Board of Nursing and the Department of Human Services is in the pre-registration information packet that every student receives before registration. The DHS disqualifying crimes list is also available at arcweb.sos.state.or.us/pages/rules/oars_800/oar_851/851_063.html.

Students have the right to request background information not be sent to the College. However, to be considered for entry or inclusion in the program the student must submit the specified background report to the College. If a background report has a discrepancy preventing the student from attending clinical, the student will be withdrawn from the Nursing Assistant program.

- 10-panel drug screen completed as a condition of acceptance into the program.
 - Students must complete a 10-panel urine drug screen, with Verified Credentials, Inc., prior to entry into the Nursing Assistant Program. With the exception of certain prescribed medications, students with a positive drug screen which prevents them from attending clinical, will be disqualified from entering the program. Please refer to the *Nursing Assistant Handbook* for more detailed information.
- Documentation of current immunizations (CDC adult schedule) by the assigned due date.
- Successful acquisition of a current American Heart Association (ILCOR compliant) BLS Provider CPR card by the assigned due date.

REGISTRATION INFORMATION

The Nursing Assistant program has a rolling admission and does not have a selective admissions process. Students may register according to seat availability on a first-come, first-served basis as determined by the priority registration schedule. Students may view the priority registration schedule at cocc.edu.

The courses in the Nursing Assistant program should be carefully planned. Students must successfully complete NUR 103 before they can enroll in NUR 104. For patient and personnel safety reasons, students are discouraged from working more than 20 hours or working a night shift during the term(s) they are taking NUR 103 and NUR 104. Please contact the Nursing Assistant program director and/or the CAP Center for questions regarding the program.

PROGRAM COURSE REQUIREMENTS

All courses must be completed with a grade of "C" or better. All classes marked with * are General Education requirements.

Fall Term		
HD 101	Study Strategies	3
or HD 100CS	College Success	
HHP 248	Health Psychology	3-4
or HHP 210	Introduction to the Health Care System	
MTH 020*	Pre-Algebra	4
or MTH 058	Math Literacy I	
(or higher)		
WR 065*	Rhetoric and Critical Thinking I	4
or WR 121	Academic Composition	
(or higher)		
Winter Term		
NUR 103	Nursing Assistant	7
PSY 215	Developmental Psychology	4
SP 218*	Interpersonal Communication	3
Spring Term		
CIS 120	Computer Concepts	0-4
or Computer C	Competency Test	
HD 109	Successful Job Search Strategies	2
NUR 104	CNA Level 2	6

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NURSING

Associate of Arts Oregon Transfer (AAOT) Degree - Transfer Preparation 90 credits

COCC students may choose from several paths to transfer into upperdivision Bachelor of Science in Nursing (BSN) programs.

Option 1: Students may complete the RN, AAS at COCC and then complete an online RN-to-BSN program. Information on the RN, AAS program is available in this catalog.

Option 2: Students may complete prerequisite coursework for a specific university at COCC and then apply to that university's BSN program.

Option 3: Students may complete the prerequisites for applying to the majority of Oregon's BSN programs by completing the AAOT degree at COCC, then apply to multiple BSN programs.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some private and out-of-state universities having met all lower-division general education requirements. With appropriate planning, all lower-division major requirements may also be met. Students should carefully review the program websites for any universities they are considering and then work closely with an advisor to review specific transfer requirements. All of Oregon's BSN programs have a selective admission process and are highly competitive.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

Oregon has six baccalaureate degree programs (offered at nine universities or colleges). For specific information, contact the school. The following programs are approved by the Oregon State Board of Nursing.

Concordia University

cu-portland.edu/hhs/undergraduate/nursing

George Fox University

georgefox.edu/academics/undergrad/departments/nursing/index.html

Linfield-Good Samaritan School of Nursing

linfield.edu/portland - also offers an online RN-to-BSN program

Oregon Health & Science University (OHSU) School of Nursing-Portland ohsu.edu/xd/education/schools/school-of-nursing

OHSU School of Nursing at Eastern Oregon University eou.edu/ohsu

OHSU School of Nursing at Oregon Institute of Technology oit.edu/academics/degrees/nursing

OHSU School of Nursing at Southern Oregon University

ohsu.edu/xd/education/schools/school-of-nursing/about/campuses/a shland-campus-page.cfm

OHSU School of Nursing at Western Oregon University

 $ohsu.edu/xd/education/schools/school-of-nursing/about/campuses/\\monmouth-campus.cfm$

University of Portland School of Nursing nursing.up.edu

Walla Walla University School of Nursing

wallawalla.edu/nursing

All courses must be completed with a grade of "C" or better.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

WR 122 Argument, Research and Multimodal Composition Oral Communication SP 111 Fundamentals of Public Speaking Mathematics MTH 105 Math in Society (or higher) Recommend: MTH 111 College Algebra Health HHP 295 Health and Fitness GENERAL EDUCATION/DISCIPLINE STUDIES Arts and Letters¹ At least three (3) courses from at least two (2) prefixes. Recommend: ARH 201 Art History I or ARH 202 Art History III ENG 107 Western World Literature: Ancient or ENG 108 Western World Literature: Middle Ages or ENG 109 Western World Literature: Modern PHL 202 Problems of Philosophy - Ethics Social Science¹ At least four (4) courses from at least two (2) prefixes. Recommend: ANTH 103 Cultural Anthropology PSY 201 Mind and Brain PSY 215 Developmental Psychology SOC 201 Introduction to Sociology Science/Math/Computer Science At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend: BI 231 Human Anatomy and Physiology II BI 232 Human Anatomy and Physiology III	Writing		
Oral Communication SP 111 Fundamentals of Public Speaking Mathematics MTH 105 Math in Society (or higher) Recommend: MTH 111 College Algebra Health HHP 295 Health and Fitness GENERAL EDUCATION/DISCIPLINE STUDIES Arts and Letters¹ 9-12 At least three (3) courses from at least two (2) prefixes. Recommend: ARH 201 Art History II or ARH 202 Art History III ENG 107 Western World Literature: Ancient or ENG 108 Western World Literature: Middle Ages or ENG 109 Western World Literature: Modern PHL 202 Problems of Philosophy - Ethics Social Science¹ At least four (4) courses from at least two (2) prefixes. Recommend: At least four (4) courses from at least two (2) prefixes. Recommend: At least four (4) courses from at least two (2) prefixes. Recommend: Social Science¹ At least four (4) courses from at least two (2) prefixes. Recommend: Social Science¹ At least four (4) courses from at least two (2) prefixes. Recommend: Social Science			4
Mathematics MTH 105 Math in Society (or higher) Recommend: MTH 111 College Algebra Health HHP 295 Health and Fitness 3 GENERAL EDUCATION/DISCIPLINE STUDIES Arts and Letters¹ 9-12 At least three (3) courses from at least two (2) prefixes. Recommend: ARH 201 Art History II or ARH 202 Art History III ENG 107 Western World Literature: Ancient or ENG 108 Western World Literature: Middle Ages or ENG 109 Western World Literature: Modern PHL 202 Problems of Philosophy - Ethics Social Science¹ 12-16 At least four (4) courses from at least two (2) prefixes. Recommend: At least four (4) courses from at least two (2) prefixes. Recommend: At least four (4) courses from at least two (2) prefixes. Recommend: At least four (4) courses from at least two (2) prefixes. Recommend: Social Science 1 12-16 At least four (4) courses from at least two (2) prefixes. Recommend: ANTH 103 Cultural Anthropology 2 Socience/Math/Computer Science 12-20 At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend: Bl 231 Human Anatomy and Physiology II Bl 232 Human Anatomy and Physiology III Bl 233 Human Anatomy and Physiology III Bl 235 Human Nutrition 3-4	WR 122	Argument, Research and Multimodal Composition	4
Mathematics MTH 105 Math in Society (or higher) Recommend: MTH 111 College Algebra Health HHP 295 Health and Fitness GENERAL EDUCATION/DISCIPLINE STUDIES Arts and Letters¹ 9-12 At least three (3) courses from at least two (2) prefixes. Recommend: ARH 201 Art History I or ARH 202 Art History II or ARH 203 Art History III ENG 107 Western World Literature: Ancient or ENG 108 Western World Literature: Middle Ages or ENG 109 Western World Literature: Modern PHL 202 Problems of Philosophy - Ethics Social Science¹ 12-16 Al least four (4) courses from at least two (2) prefixes. Recommend: ANTH 103 Cultural Anthropology PSY 201 Mind and Brain PSY 215 Developmental Psychology SOC 201 Introduction to Sociology Science/Math/Computer Science At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend: BI 231 Human Anatomy and Physiology II BI 232 Human Anatomy and Physiology III FN 225 Human Nutrition 3-4	Oral Commu	nication	
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Recommend: MTH 111 College Algebra Health HHP 295 Health and Fitness 3 GENERAL EDUCATION/DISCIPLINE STUDIES Arts and Letters 9-12 At least three (3) courses from at least two (2) prefixes. Recommend: ARH 201 Art History I 9-12 Art Hold 201 Art History III ENG 107 Western World Literature: Ancient 9-10 Or ENG 108 Western World Literature: Middle Ages 9-10 Or ENG 109 Western World Literature: Modern 9-11 PHL 202 Problems of Philosophy - Ethics 2-10 At least four (4) courses from at least two (2) prefixes. Recommend: ANTH 103 Cultural Anthropology 2-12 At least four (4) courses from at least two (2) prefixes. Recommend: ANTH 103 Cultural Anthropology 2-12 At least four (4) courses from at least two (2) prefixes. Recommend: ANTH 103 Cultural Anthropology 2-12 At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend: BI 231 Human Anatomy and Physiology I 2-12 BI 232 Human Anatomy and Physiology II 2-13 BI 233 Human Anatomy and Physiology III 2-13 FN 225 Human Nutrition 3-4	MTH 105	Math in Society	4
HHP 295 Health and Fitness GENERAL EDUCATION/DISCIPLINE STUDIES Arts and Letters¹ 9-12 At least three (3) courses from at least two (2) prefixes. Recommend: ARH 201 Art History I or ARH 202 Art History III ENG 107 Western World Literature: Ancient or ENG 108 Western World Literature: Middle Ages or ENG 109 Western World Literature: Modern PHL 202 Problems of Philosophy - Ethics Social Science¹ 12-16 At least four (4) courses from at least two (2) prefixes. Recommend: ANTH 103 Cultural Anthropology PSY 201 Mind and Brain PSY 215 Developmental Psychology Socience/Math/Computer Science At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend: Recommend: BI 231 Human Anatomy and Physiology I BI 232 Human Anatomy and Physiology III FN 225 Human Nutrition 3-4	Recommend:	College Algebra	
Arts and Letters¹ At least three (3) courses from at least two (2) prefixes. Recommend: ARH 201		Health and Fitness	3
At least three (3) courses from at least two (2) prefixes. Recommend: ARH 201	GENERAL ED		
or ARH 202 Art History II or ARH 203 Art History III ENG 107 Western World Literature: Ancient or ENG 108 Western World Literature: Middle Ages or ENG 109 Western World Literature: Modern PHL 202 Problems of Philosophy - Ethics Social Science¹ 12-16 At least four (4) courses from at least two (2) prefixes. Recommend: ANTH 103 Cultural Anthropology APSY 201 Mind and Brain APSY 215 Developmental Psychology APSY 201 Introduction to Sociology APSY 201 Introduction to So	At least three (3		9-12
or ENG 108 Western World Literature: Middle Ages or ENG 109 Western World Literature: Modern PHL 202 Problems of Philosophy - Ethics Social Science¹ 12-16 At least four (4) courses from at least two (2) prefixes. Recommend: ANTH 103 Cultural Anthropology 4 PSY 201 Mind and Brain 4 PSY 215 Developmental Psychology 4 SOC 201 Introduction to Sociology 4 Science/Math/Computer Science 12-20 At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend: BI 231 Human Anatomy and Physiology I 4 BI 232 Human Anatomy and Physiology II 4 BI 233 Human Anatomy and Physiology III 4 BI 235 Human Nutrition 3-4	or ARH 202	Art History II	4
Social Science At least four (4) courses from at least two (2) prefixes. Recommend: ANTH 103 Cultural Anthropology PSY 201 Mind and Brain PSY 215 Developmental Psychology SOC 201 Introduction to Sociology Science/Math/Computer Science At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend: BI 231 Human Anatomy and Physiology I BI 232 Human Anatomy and Physiology II BI 233 Human Anatomy and Physiology III BI 235 Human Anatomy and Physiology III BI 236 Human Anatomy and Physiology III BI 237 Human Anatomy and Physiology III BI 238 Human Anatomy and Physiology III BI 239 Human Anatomy and Physiology III BI 230 Human Anatomy and Physiology III BI 231 Human Anatomy and Physiology III BI 232 Human Anatomy and Physiology III BI 233 Human Anatomy and Physiology III BI 235 Human Nutrition BI 246	or ENG 108	Western World Literature: Middle Ages	4
At least four (4) courses from at least two (2) prefixes. Recommend: ANTH 103 Cultural Anthropology PSY 201 Mind and Brain PSY 215 Developmental Psychology SOC 201 Introduction to Sociology Science/Math/Computer Science At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend: BI 231 Human Anatomy and Physiology I BI 232 Human Anatomy and Physiology II BI 233 Human Anatomy and Physiology III BI 233 Human Anatomy and Physiology III BI 235 Human Anatomy and Physiology III BI 236 Human Anatomy and Physiology III BI 237 Human Anatomy and Physiology III BI 238 Human Anatomy and Physiology III BI 239 Human Anatomy and Physiology III BI 230 Human Anatomy and Physiology III BI 231 Human Anatomy and Physiology III BI 232 Human Anatomy and Physiology III BI 233 Human Anatomy and Physiology III BI 235 Human Nutrition	PHL 202	Problems of Philosophy - Ethics	4
PSY 201 Mind and Brain 4 PSY 215 Developmental Psychology 4 SOC 201 Introduction to Sociology 4 Science/Math/Computer Science 12-20 At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend: BI 231 Human Anatomy and Physiology I 4 BI 232 Human Anatomy and Physiology II 4 BI 233 Human Anatomy and Physiology III 4 BI 235 Human Anatomy and Physiology III 4 BI 236 Human Anatomy and Physiology III 4 BI 237 Human Anatomy and Physiology III 4 BI 238 Human Anatomy and Physiology III 4 BI 239 Human Anatomy and Physiology III 4 BI 230 Human Anatomy and Physiology III 4 BI 231 Human Anatomy and Physiology III 4 BI 232 Human Anatomy and Physiology III 4 BI 233 Human Anatomy and Physiology III 4 BI 235 Human Nutrition 3-4	At least four (4)		2-16
PSY 215 Developmental Psychology SOC 201 Introduction to Sociology Science/Math/Computer Science At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend: BI 231 Human Anatomy and Physiology I BI 232 Human Anatomy and Physiology II BI 233 Human Anatomy and Physiology III BI 233 Human Anatomy and Physiology III BI 235 Human Anatomy and Physiology III BI 236 Human Anatomy and Physiology III BI 237 Human Anatomy and Physiology III BI 238 Human Anatomy and Physiology III BI 239 Human Anatomy and Physiology III BI 230 Human Anatomy and Physiology III BI 231 Human Anatomy and Physiology III BI 232 Human Anatomy and Physiology III BI 233 Human Anatomy and Physiology III BI 235 Human Nutrition		, 0,	4
SOC 201 Introduction to Sociology Science/Math/Computer Science 12-20 At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend: BI 231 Human Anatomy and Physiology I BI 232 Human Anatomy and Physiology II BI 233 Human Anatomy and Physiology III BI 233 Human Anatomy and Physiology III FN 225 Human Nutrition 3-4			4
Science/Math/Computer Science 12-20 At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend: BI 231 Human Anatomy and Physiology I BI 232 Human Anatomy and Physiology II BI 233 Human Anatomy and Physiology II BI 233 Human Anatomy and Physiology III FN 225 Human Nutrition 3-4		· · · · · · · · · · · · · · · · · · ·	4
At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend: BI 231 Human Anatomy and Physiology I 4 BI 232 Human Anatomy and Physiology II 4 BI 233 Human Anatomy and Physiology III 4 FN 225 Human Nutrition 3-4	SOC 201	Introduction to Sociology	4
BI 232 Human Anatomy and Physiology II 2 BI 233 Human Anatomy and Physiology III 2 FN 225 Human Nutrition 3-4	At least four (4) three (3) labore	courses from at least two (2) prefixes including at lea	
BI 233 Human Anatomy and Physiology III 25 FN 225 Human Nutrition 3-2	BI 231	Human Anatomy and Physiology I	4
FN 225 Human Nutrition 3-2	BI 232	Human Anatomy and Physiology II	4
	BI 233	Human Anatomy and Physiology III	4
			3-4
ELECTIVES Recommend: BI 101 General Biology: Cells & Genes 4	Recommend:	General Biology: Cells & Genes	4
57		9,	4
		9,	5
/		,	4
	MTH 243		l 4
World Language ² Two terms of the same world language			8

FOOTNOTES

- ¹ Additional course choices may be available; consult advisor for suggestions.
- ² Students who completed two years of the same world language in high school with a "C" or better, may choose 8 elective credits numbered 100+ instead of world language; consult advisor for suggestions.

NURSING

PRACTICAL AND REGISTERED NURSING PREREQUISITES AND REQUIREMENTS

The Nursing program is approved by the Oregon State Board of Nursing to provide students with the academic and clinical preparation to sit for the national licensure exam (NCLEX) upon completion of the program. The Nursing program provides a career ladder with exit points at the nursing assistant (NA) or practical nurse (PN) after the first year and registered nurse (RN) level after the second year.

After completing all required support and prerequisite courses, as well as the first three terms of the nursing courses, students are awarded COCC's certificate in Practical Nursing. This certificate qualifies students to take the NCLEX-PN national licensure examination and apply for licensure as a practical nurse (PN) from a State Board of Nursing. Students who successfully complete the first year of nursing courses may continue into the RN sequence of courses without additional application requirements.

After completion of all required support and prerequisite courses, as well as all six terms of the nursing courses, the students are awarded an AAS in nursing degree and are eligible to take the NCLEX-RN national licensure examination and apply for licensure as a registered nurse (RN) from a State Board of Nursing. A student may choose to complete an AAOT in Nursing but should note that the requirements are different.

Students may choose to exit the program at the end of the second term of nursing courses and can apply for a Nursing Assistant level 1 certificate. Students leaving at the end of the second term may apply for readmission. Students may choose to exit the program at the end of the first year of nursing courses and can apply for a PN license or CNA2 level certificate. Students may apply for readmission within one year or apply via the advanced placement into the second year of the program. Students leaving the Nursing program at any point after the first term must apply for readmission into the program within one year. Readmission is competitive and on a space-available basis. Students seeking readmission should look at the COCC website for current prerequisite and support course requirements as well as the Nursing program's readmission policy. LPNs who have graduated from another nursing program and have a current LPN license may seek advanced placement into the RN level of the program and should look at the COCC website for the advanced placement requirements and application materials.

COST OF PROGRAM

In addition to the standard tuition and student fees, students should anticipate the following additional estimated program costs:

• Nursing textbooks \$1,500

• Nursing courses \$300 per term fee

Nursing course supplies \$90 first year, \$45 second year

Specialized clothing or uniform \$150
Tools and equipment \$80
State exam/licensure fee \$520

(\$160 LPN-OR, \$160 RN-OR, \$200 NCLEX exam cost)

State fingerprinting fee
 Background check (VCI)
 Drug screen (VCI)
 \$45-60

Immunizations & screenings (VCI) \$300
 CPR certification \$50

PROGRAM PREPARATION AND PREREQUISITES

For a detailed discussion of all program admission requirements, students must refer to the current year *Selection Process Handbook* on the Nursing website. Students must complete a Nursing program application, which includes completion of the Test of Essential Academic Skills (TEAS-V)™ and short-answer essay questions and submit any required documentation, as part of their application packet. Admission packets are available at cocc.edu/nursing. Applications are accepted annually during Spring term for admission to the Nursing program the following Fall term.

An applicant must be classified as an in-district resident for the term in which they will be admitted to the program.

Students must complete the following prerequisite courses to be eligible to apply to the nursing program. Prerequisite courses must be completed with a "C" grade or better, with a cumulative GPA of 3.0 or higher.

with a C grat	de of better, with a cumulative of A of 5.0 of higher.	
BI 231	Anatomy and Physiology I ¹	4
BI 232	Anatomy and Physiology II ¹	4
BI 233	Anatomy and Physiology III ¹	4
BI 234	Microbiology ²	4
CIS 120	Computer Concepts ¹	0-4
or Computer C	ompetency Test	
MTH 095	Intermediate Algebra	4
or MTH 105	Math in Society	
(or higher)		
WR 121	Academic Composition	4

Students are recommended to complete the following courses prior to admission to be better prepared for nursing courses and because points are awarded for completion of these additional courses during the application process. Students must complete these courses with a "C" grade or better.

CH 104	Introduction to Chemistry I ¹	5
or CH 221	General Chemistry I ¹	
FN 225	Human Nutrition	4
or HHP 240	Science of Nutrition	
PSY 215	Developmental Psychology	4
WR 122	Argument, Research and Multimodal Composition	4
or WR 227	Technical Writing	

FOOTNOTES

¹ Chemistry, Anatomy and Physiology, Microbiology and Computer Concepts courses may be no older than five years at the time of application to the Nursing program. The five-year requirement is defined as the academic year the course was taken, e.g. five years from 2017-2018 is 2012-2013.

REQUIRED AFTER ADMISSION BUT PRIOR TO ENTRY INTO NURSING COURSES

Once admitted into the Nursing program, students will need to complete the following before the start of Fall term (See Nursing Program Entrance Policies and Technical Standards Handbook for more details on the Nursing website):

- Documentation of completion of immunizations and screenings as follows:
 - -Hepatitis
 - -Measles, Mumps, Rubella
 - -Varicella
 - -Tdap
 - -TB test
- Current Healthcare provider CPR certification must be maintained througout the duration of the Nursing program.
- All COCC students enrolled in the Nursing program, which includes
 requirements for practical experience, have to complete criminal
 history checks (CHC) as a condition of their acceptance into the
 Nursing program. Students who do not pass the CHC may not be
 eligible to complete training at affiliated sites, to sit for licensure or
 certification exams, or to be hired for some professional positions.
 Students who believe their personal history may interfere with their
 ability to complete the program of study or to obtain licensure or
 certification in their chosen field should contact the appropriate state
 board or the nurse administrator.
- Prior to entry into a health profession program, students must complete a 10 panel urine drug screen with Verified Credentials, Inc.
 With the exception of certain prescribed medications, students with a positive drug screen, which prevents them from attending clinical, will be disqualified from entering the program. Please refer to the Nursing website and/or Nursing Program Entrance Policies and Technical Standards Handbook for more detailed information.

NURSING (continued)

PRACTICAL AND REGISTERED NURSING PREREQUISITES AND REQUIREMENTS

MINIMUM GPA OR GRADE REQUIREMENTS

Greater than or equal to a 3.0 cumulative GPA for BI 231, 232, 233, 234, WR 121 and MTH 095. All other support courses must be completed with "C" or better. Once admitted to the Nursing program, students must pass Nursing Theory with a score greater than or equal to a 76.55 percent and pass practicum (LRC and Clinical) to remain in the Nursing program.

REGISTRATION INFORMATION

Students are admitted to the Nursing program through a selective admission process. The application process is handled through COCC's Admissions and Records office. Admission to the Nursing program is competitive and enrollment is limited. Admission to the program allows a student to take the required Nursing (NUR) courses. Program courses must be taken in sequence.

Students are strongly recommended to attend a Nursing program information session offered by Admissions and Records to learn about COCC's Nursing program and admission requirements prior to application submission. Students should refer to the *Nursing Selection Process Handbook* found on the COCC website for all current admission requirements and for specific information about the process, financial aid and strategies for program success. Nursing program prerequisite and support courses are open to all students. Due to the rigor and time required for program-specific coursework, students are highly encouraged to complete support courses specific to the program prior to admission.

Students admitted to the nursing program will be held to the catalog/planning year requirements in the academic year of the start of their Nursing cohort. For example, students admitted to the Nursing Program for Fall 2017 will have a catalog/planning year of 2017-18. Students apply based on the requirements in the *Nursing Selection Process Handbook*. This will ensure students are following degree requirements that were published in their respective handbook. Once students are accepted to the nursing program Admissions & Records will make any necessary adjustments to the catalog/planning year. Students may find their catalog/planning year information in their GradTracks degree audit.

PROGRAM STANDARDS

The Nursing program reserves the right to refuse or discontinue enrollment at any time if the student violates the Nurse Practice Act of the state of Oregon. Additionally, students are required to consistently meet the outcomes, technical standards, policies and/or safety standards of the program and College. Failure to do so may result in probation or removal from the program. It is the COCC student's responsibility to know and abide by the Nursing Program and College policies including Student Rights and Responsibilities which can be found on the COCC website. The Nursing program progression policy can also be found on the COCC website.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

Completion of the first year of the Nursing program (PN) qualifies graduates to take the NCLEX-PN national licensure exam and, if passed, to become licensed as a practical nurse from a state board of nursing.

Completion of the AAS degree in Nursing qualifies graduates to take the NCLEX-RN national licensure exam and, if passed, to apply for licensure as a registered nurse from a state board of nursing.

Licensure information in Oregon can be found at oregon.gov/OSBN/pages/rn-lpnlicensure.aspx.

TRANSFER INFORMATION

Students seeking transfer admission into COCC's Nursing program must meet with the pre-admission advisor and advanced placement program coordinator to determine eligibility prior to entry. Students transferring out of COCC should know that often only selected credits from a community college program are considered transferrable to public or private baccalaureate institutions.

Upon completion of the COCC Practical Nurse (first year Nursing) certificate program, students may continue to the second year of COCC's Nursing program or seek admission or advanced placement at other Oregon community colleges with whom COCC has partnerships. Articulation agreements are in place for graduates of the AAS degree Nursing program wanting to continue on to a Bachelor of Science in Nursing degree with Linfield College and Oregon Health Sciences University. Several other universities and colleges in Oregon and Washington offer RN-BSN completion. A co-admission agreement is in place with Linfield College for students admitted to the COCC Nursing program.

NURSING

PRACTICAL NURSING

Certificate of Completion 61-65 credits

REGISTERED NURSING

Associate of Applied Science (AAS) Degree 104-108 credits

See the "Practical and Registered Nursing Prerequisites and Requirements" description for information about the following: program description, cost of program, program preparation and prerequisites, minimum GPA or grade requirements, registration information, program standards, national/state legal eligibility or unique requirements for licensure and/or entry into occupation, or advancement in the occupation and transfer information.

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Practical Nursing

PROGRAM COURSE REQUIREMENTS

General Edu MTH 095 or MTH 105 (or higher)	ication/Foundational Requirements Intermediate Algebra Math in Society	4
WR 121	Academic Composition	4
Program Pre	requisites	
BI 231	Anatomy and Physiology I ¹	4
BI 232	Anatomy and Physiology II ¹	4
BI 233	Anatomy and Physiology III ¹	4
BI 234	Microbiology ¹	4
Other Requi	red Support Courses	
CIS 120	Computer Concepts ¹	0-4
or Computer (Competency Test	
PSY 215	Developmental Psychology	4
Program Red	quirements	
NUR 106	Nursing I	12
NUR 107	Nursing II	10
NUR 108	Nursing III	11

FOOTNOTES

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Nursing

PROGRAM COURSE REQUIREMENTS

General Edu MTH 095 or MTH 105 (or higher)	ication/Foundational Requirements Intermediate Algebra Math in Society	4
WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Program Pre	erequisites	
BI 231	Anatomy and Physiology I ¹	4
BI 232	Anatomy and Physiology II ¹	4
BI 233	Anatomy and Physiology III ¹	4
BI 234	Microbiology ¹	4
Other Requi	red Support Courses	
CH 104	Introduction to Chemistry I	5
or CH 221	General Chemistry I ¹	
CIS 120	Computer Concepts	0-4
or Computer (Competency Test	
FN 225	Human Nutrition	4
or HHP 240	Science of Nutrition	
PSY 215	Developmental Psychology	4
Program Re	auirements .	
NUR 106	Nursing I	12
NUR 107	Nursing II	10
NUR 108	Nursing III	11
NUR 206	Nursing IV	11
NUR 207	Nursing V	10
NUR 208	Nursing VI	9

FOOTNOTES

ADVISING NOTES

Students considering pursuing a bachelor's degree in nursing should see a nursing advisor, the COCC website or the baccalaureate institution's catalog for other course requirements.

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¹ Anatomy and Physiology, Microbiology, CIS 120 or pass Computer Competency Test and Chemistry may be no older than five years at the time of application to the Nursing program. The five-year requirement is defined as the academic year the course was taken, e.g., five years from 2017-2018 is 2012-2013.

¹ Anatomy and Physiology, Microbiology, CIS 120 or pass Computer Competency Test and Chemistry may be no older than five years at the time of application to the nursing program. The five-year requirement is defined as the academic year the course was taken, e.g., five years from 2017-2018 is 2012-2013.

OUTDOOR LEADERSHIP

Associate of Science (AS) Degree - Preparation for Transfer to Oregon State University
94 credits

The COCC Outdoor Leadership program is a premiere provider of associate's level preparation in outdoor leadership and is grounded in the principles of lifelong learning, environmental stewardship, personal growth and leadership. The program emphasizes experiential methodologies to combine theory and practice in a strong field-based curriculum. Students will develop current and accepted skills, understand comprehensive knowledge and standards in the professional field, while being taught by highly skilled and knowledgeable faculty who exemplify the highest level of standards, integrity and ethics.

The general area of outdoor leadership includes developing students to participate professionally in various outdoor related industries, including outdoor recreation, outdoor education, adventure education, wilderness therapy and tourism, and leisure enterprises. The AS degree is designed for students planning to transfer to OSU-Cascades. This degree is designed to allow students to meet all lower-division baccalaureate and major requirements for a Bachelor of Science in Tourism and Outdoor Leadership (TOL).

Courses must be completed with a grade of "C" or better.

BACCALAUREATE CORE

SKILLS

Writing I	WR 121 Academic Composition	4
Writing II	WR 122 Argmt, Rsrch and Multimodal Composition	4
Writing III	SP 111 Fundamentals of Public Speaking	4
Mathematics	One course from the Mathematics list	4
Fitness	HHP 295 Health and Fitness	3

PERSPECTIVES

No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core. GEO courses listed under Physical Science are considered to be from a different department than GEO courses listed under any other Perspective category.

Choose one course in each of the following categories from the OSU Baccalaureate Core Courses listed on pages 246-247:

Physical Science

	4-5
Biological Science	
	4-5
Physical or Biological Science	
Choose one additional course from this list	4-5
Western Culture	
	3-4
Cultural Diversity	
,	4
Literature and the Arts	
	3-4
Social Processes and Institutions	
	3-4
DIFFERENCE POWED AND DISCRIMINATION	

DIFFERENCE, POWER AND DISCRIMINATION Take 4 credits in Difference Power and Discrimination

Take 4 credits in Difference, Power and Discrimination.

OUTDOOR LEADERSHIP PROGRAM REQUIREMENTS

OL Skills

OF 2KIII2		
OL 111	Introduction to Outdoor Leadership	3
OL 171	Technical Skills for Outdoor Leaders	2
OL 207	Seminar in Outdoor Leadership	2
OL 244	Psychology of Risk and Adventure	3

OL 255	Outdoor Living Skills	5
OL 263	Basic Wilderness Life Support	5
OL 271*	Facilitating Group Experiences	5
OL 273*	Outdoor Recreation Leadership	5
OL 280*	Practicum – Outdoor Leadership	2
OL 294*	Choose one guide course from the following list:	3
OL 294AC	Alpine Climbing	
OL 294CA	Canoe Instruction & Guiding	
OL 294MB	Mountain Bike Guiding	
OL 294RC	Teaching Rock Climbing	
OL 294WG	Whitewater Raft Guiding	
OL Core		
BA 101	Introduction to Business	4
FOR 255	Resource Interpretation	3
	•	

ELECTIVES

Choose enough elective credits to reach a minimum of 94 overall degree credits. Elective courses must be numbered 100 or above (maximum of 12 credits of Career and Technical Education (CTE) and/or maximum of 15 credits of CWE/HHP performance classes.

ADVISING NOTES

The OL program models a cohort program, whereby students complete a set of courses each term with a single peer group. It is advised that students complete as much of their general education requirements prior to beginning their OL courses.

Students begin their OL work in the Fall, completing a set of introductory/ fundamental courses. Fall is particularly special as students attend class for the entirety of the term, in an outdoor classroom, everyday of the week and complete an 8 day expedition in November. Once students begin in the Fall, they complete a prescribed set of courses in both the following Winter and Spring terms.

During Winter term, students work on advanced theory and application courses, gaining more extensive understanding about the practices of professional outdoor leaders. Finally, in Spring, students complete advanced skills courses, aimed at developing students' practice of professional standards within specific activities.

* First year completion requirements for enrollment into the second year level include: completion of the OL prefix courses with a grade of "C" or better; completion of a minimum of 36 college credits made up, in part, by the above courses, appropriate prerequisites (see prerequisite requirements below). See advisor for details.

Outdoor Leadership Course Prerequisites:

Course	Prerequisite
OL 111	WR 065
OL 271	OL 111, OL 263, OL 255, WR 121
OL 273	OL 111, OL 263, OL 255, WR 121
OL 294WG	OL 271, OL 273, OL 171
OL 294RC	OL 271, OL 273, OL 171
OL 294CA	OL 271, OL 273
OL 294MB	OL 271, OL 273
OL 294AC	OL 171, OL 271, OL 273

Lab fees are assessed at registration the following OL courses.

- \$20 for all HHP 185 classes for Mazama user fee
- \$25 for OL 271

Note: This information reflects an accurate picture of OSU requirements at the time of approval, using the OSU catalog, advisors and web resources for consultation. However, degree requirements can and do change. OSU has made no guarantee about the accuracy of requirements in this AS degree; determination of the status of transfer status is made on an individual course basis at the point of admission to OSU.

OUTDOOR LEADERSHIP

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The COCC Outdoor Leadership program is a premiere provider of associate's level preparation in outdoor leadership and is grounded in the principles of lifelong learning, environmental stewardship, personal growth and leadership. The program emphasizes experiential methodologies to combine theory and practice in a strong field-based curriculum. Students will develop current and accepted skills, understand comprehensive knowledge and standards in the professional field, while being taught by highly skilled and knowledgeable faculty who exemplify the highest level of standards, integrity and ethics.

The general area of outdoor leadership includes specific careers in outdoor recreation, outdoor education, wilderness therapy and tourism and leisure enterprises. A student can earn an AAOT or AS degree with a focus in outdoor leadership at COCC to prepare to transfer to a baccalaureate institution to pursue a higher degree in any one of the areas mentioned above.

The Associate of Arts Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The OL program models a cohort program, whereby students complete a set of courses each term with a single peer group. It is advised that students complete as much pf their general education requirements prior to beginning their OL courses.

Students begin their OL work in the Fall, completing a set of introductory/ fundamental courses. Fall is particularly special as students attend class for the entirety of the term, in an outdoor classroom, every day of the week and complete an 8 day expedition in November. Once students begin in the Fall, they complete a prescribed set of courses in both the following Winter and Spring terms.

During Winter term, students work on advanced theory and application courses, gaining more extensive understanding about the practices of professional outdoor leaders. Finally, in Spring, students complete advanced skills courses, aimed at developing students' practice of professional standards within specific activities.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	nication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher)	Math in Society	4
Recommend: MTH 111	College Algebra	

Health (3 credits with HHP prefix)		
HHP activity courses (1 credit each) are not to be duplicated	

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

,	
Arts and Letters	9-12
At least three (3) courses from at least two (2) prefixes.	
Social Science	12-16
At least four (4) courses from at least two (2) prefixes.	
Science/Math/Computer Science	12-20
At least four (4) courses from at least two (2) prefixes including at	least

three (3) laboratory courses in biological and/or physical science.

ELECTIVES

Choose enough elective credits to reach a minimum total of 90 overall degree credits. Elective courses must be numbered 100 or above and can be any combination of general electives, Career and Technical Education (CTE) courses (12 credits maximum) or CWE/HHP performance courses (15 credits maximum). The following courses are recommended:

FOR 240A	Forest Ecology	3
FOR 251	Recreational Resource Management	3
GEOG 212	Tourism and Recreation	3
OL 111	Introduction to Outdoor Leadership	3
OL 171	Technical Skills for Outdoor Leaders	2
OL 207	Seminar in Outdoor Leadership	2
OL 244	Psychology of Risk and Adventure	3
OL 255	Outdoor Living Skills	5
OL 263	Basic Wilderness Life Support	5
OL 271*	Facilitating Group Experiences	5
OL 273*	Outdoor Recreation Leadership	5
Choose one of	the following:	
FOR 255	Resource Interpretation	3
OL 294AC	Alpine Climbing	3
OL 294CA	Canoe Instruction & Guiding	3
OL 294MB	Mountain Bike Guiding	3
OL 294RC	Teaching Rock Climbing	3
OL 294WG	Whitewater Raft Guiding	3

ADVISING NOTES

* First year completion requirements for enrollment into the second year level include: completion of the OL prefix courses with a grade of "C" or better; completion of a minimum of 36 college credits made up, in part, by the above courses, appropriate prerequisites (see prerequisite requirements below). See advisor for details.

Outdoor Leadership Course Prerequisites:

Course	Prerequisite
OL 111	WR 065
OL 271	OL 111, OL 263, OL 255, WR 121
OL 273	OL 111, OL 263, OL 255, WR 121
OL 294WG	OL 271, OL 273, OL 171
OL 294RC	OL 271, OL 273, OL 171
OL 294CA	OL 271, OL 273
OL 294MB	OL 271, OL 273
OL 294AC	OL 171, OL 271, OL 273

Lab fees may be assessed at time of registration for certain OL courses pending approval by the College Affairs Committee

- \$23 for HHP 295 or HHP 252A
- \$20 for all HHP 185 courses for Mazama user fee
- \$5 for OL 271

PARAMEDICINE

Associate of Applied Science (AAS) Degree 98-100 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Paramedicine

PROGRAM DESCRIPTION

The AAS in Paramedicine is designed for students seeking a career in emergency medical services and/or the fire service industry. The program meets or exceeds the required technical skills and knowledge necessary for national and state licensure testing.

The program is challenging and will require participants to spend between 600 and 800 hours in clinical and field settings. The program contains certification requirements at the Emergency Medical Technician (EMT) and Paramedic levels. Students will need to satisfy a computer-based and practical hands-on test through the National Registry of EMTs to complete certification.

Paramedics work in a variety of settings including fire departments, private and public ambulance services, hospitals (emergency departments), emergency communication systems, law enforcement agencies, search and rescue, recreation industry, forest service/smokejumpers and some rural clinical environments. Paramedics provide many services to their communities, often working in teams where communication and technical skills are expected. Starting salaries range from \$2,500 to \$3,500 per month.

COST OF PROGRAM

In addition to standard tuition, student fees, lab fees and textbooks, students should anticipate the following estimated program costs:

- CPR for Healthcare Provider card: \$55. Must remain current throughout Basic and Paramedic classes.
- Background check: \$55. Students must pass a criminal history check (CHC) prior to enrolling in the Basic or Paramedic classes.
- Drug screen: \$55.
- Immunization upload \$14. Documentation of completion of the following immunizations; Hepatitis B, current TB, MMR, annual Influenza, Tetanus within previous 10 years, Varicella (Chickenpox).
- In some cases fees associated with immunizations can range from \$20-\$200.
- Materials (stethoscope, paramedic field manual, uniforms, etc.) range from \$20-\$150
- Testing fees which include National Registry computer exams, practical skills testing, fingerprint background checks (depending on location of practical testing) range from \$450-\$1,000 (includes travel outside of the area).
- Paramedic students should anticipate costs for housing and living expenses when doing their field internship outside of the local area.

Note: As some of the above fees are paid to outside institutions, rates may vary throughout the academic year.

ADVISING INFORMATION

- It is strongly recommended that candidates enrolling in the Paramedicine program have a strong background in high school or college math and chemistry. This knowledge will enhance the student's success in Anatomy and Physiology and college-level math.
- Required for Paramedic courses: successfully completed application process and accepted into Paramedic sequence of courses.
- Second-year Paramedic courses are open only to students who have been admitted to the program.
- Students should contact the Admissions and Records office to obtain details for Paramedic course selection and application process.
- Speak with an advisor prior to registration to get a list of recommended courses in categories that offer more than one option such as the general education requirement.
- Speak with program director to make sure students understand the state and national testing process for EMT and Paramedic courses.

PROGRAM PREPARATION AND PREREQUISITES REQUIRED PRIOR TO ENTRY IN PROGRAM EMT OR PARAMEDIC COURSES

- High school diploma or GED.
- Students must be 18 years old or older to test for state and national exams.
- A current Health Care Provider CPR card is required prior to placement into EMT or Paramedic courses.
- Uploaded and verified, required immunizations as set forth in clinical agreement with St. Charles hospital system.
- Information on the courses that are required for entry into the Paramedic courses as prerequisites and those used to calculate points for selection can be found on the Paramedicine website.
- All COCC students enrolled in an EMT, paramedic course and/or seeking agency affiliation requiring practical experience, will have to pass a criminal history check (CHC) as a condition of their acceptance into a medical, fire or other facility for training. Students who do not pass the CHC may not be eligible to complete training at affiliated sites, to sit for licensure or certification exams, or to be hired for some professional positions. Students who believe their personal history may interfere with their ability to complete the program of study or to obtain licensure or certification in their chosen field should contact the appropriate state board or the program director.
- Prior to entry into a health profession program, students must complete a 10 panel urine drug screen with Verified Credentials, Inc. With the exception of certain prescribed medications, students with a positive drug screen, which prevents them from attending clinical, will be disqualified from entering the program. Please refer to the Paramedicine website and/or program handbook for more detailed information.
- All students will undergo drug screening, background check and immunization verification, with the vendor approved by Central Oregon Community College, prior to entrance into the EMT or Paramedic certification courses at their expense. Students will be administratively withdrawn from the program and the seat given to an alternate student if requirements are not initiated with the specified vendor by the due date indicated by the Paramedicine program. Students with a positive urine drug screen will be disqualified from entering the EMT or Paramedic certification courses at Central Oregon Community College, with the exception of certain prescribed medications. The director of EMS/SFS will notify the student of positive drug screens and their resulting disqualification from the program. Students have a right to appeal the decision.

PROCESS FOR APPLYING TO PARAMEDIC PROGRAM

- Complete application process found at cocc.edu.
- Acceptance into the program is based on the selection process found on the Paramedicine website.
- All required prerequisite courses completed with an overall GPA of 3.0.

MINIMUM GPA OR GRADE REQUIREMENTS

All prererequisite courses must be completed at an average of a 3.0 GPA or higher. Students must maintain a minimum overall 2.7 GPA to maintain enrollment in the program; students falling below an overall 2.7 GPA during the Paramedicine program will have one term to correct the deficit. Students who fail to bring their grades up may not be allowed to register the following term and complete the course. They may reapply for the following year if they meet current requirements as set forth in the Paramedic program readmission policy. Students applying for readmission who have failed a course will have to repeat the entire program sequence.

PARAMEDICINE (continued)

Associate of Applied Science (AAS) Degree 98-100 credits

DDOGDAM DEOLIDEMENTS

REGISTRATION INFORMATION

Each year, on the first day of Spring term, the application period for the following academic year's Fall term start of the Paramedic program is available. The Paramedic program admits one cohort per year beginning Fall term. All other courses are offered multiple times throughout Fall, Winter and Spring terms. See the online schedule for information.

PROGRAM STANDARDS

State requirements: 85 percent attendance in EMT or Paramedic classes; 100 percent attendance for clinical and field rotations; and students must pass the overall EMT or Paramedic class at a minimum of 76 percent to sit for state and national registry testing and certification.

The Paramedicine handbook outlines requirements for class, lab, clinical and field settings; these can be obtained by contacting the director of EMS/SFS programs. Continuation in the Paramedicine program will be determined on an individual basis and will depend on the ability of the student to correct deficiencies, broken relationships with clinical personnel and to show continued improvements in grades and skills.

Failure to successfully complete each term may affect a student's ability to finish the program and sit for state and national testing.

Each course must be taken in succession, within one academic year and at ${\sf COCC}$.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE, ADVANCEMENT, AND/OR ENTRY INTO OCCUPATION

- Any student wishing to obtain an NREMT paramedic certification must graduate from a program accredited by the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).
- The Central Oregon Community College Paramedicine program is accredited by the Commission on Accreditation of Allied Health Education Programs (caahep.org) upon the recommendation of the CoAEMSP. Commission on Accreditation of Allied Health Education Programs

25400 US Highway 19 North, Suite 158 Clearwater, FL 33763 727.210.2350 caahep.org

 The Paramedicine program is accredited by the Board of Education and the Oregon State Health Services and Trauma section. This accreditation requires that students complete didactic, lab, clinical and field internships as outlined in the Oregon Administrative Rules (OAR).

In Oregon it is required to have an AAS degree or higher to be a paramedic. National registry requirements may be obtained at nremt.org.

TRANSFER INFORMATION

This degree is designed for students planning to enter their chosen career upon graduation. Students who choose to pursue a higher degree in the field of paramedicine will have several options for transfer of credits; however, students who choose to pursue higher degrees in general studies should be aware that only selected credits may be transferrable to public or private baccalaureate institutions.

PROGRAM REQUIREMENTS				
SUPPORT COURSES				
HHP 242	Stress Management	3		
or HHP 266	Nutrition for Health			
or HHP 295	Health and Fitness			
MTH 065	Algebra II ¹	4		
(or higher)	3			
SP 111	Fundamentals of Public Speaking	3-4		
(or higher)	, 3			
WR 121	Academic Composition	4		
Human Rela	itions			
FOR 211	Supervision and Leadership	3		
or BA 285	Business Human Relations			
CODE DEOL	IIDEMENTS			
CORE REQU		3		
BI 231	Medical Terminology Human Anatomy and Physiology I	4		
BI 232	, , , ,	4		
BI 233	Human Anatomy and Physiology II	4		
	Human Anatomy and Physiology III	5		
EMT 151 EMT 152	Emergency Medical Technician Part A	5		
EMT 170	Emergency Medical Technician Part B	2		
EMT 171	Emergency Response Comm/Doc Emergency Response Patient Transport	2		
EMT 175	, , ,	3		
or SFS 101	Introduction to Emergency Services Introduction to Emergency Services	3		
EMT 195	Crisis Intervention	3		
EMT 290	Paramedic Part I	8		
EMT 291	Paramedic Clinical Part I	3		
EMT 292	Paramedic Part II	8		
EMT 293	Paramedic Clinical Part II	3		
EMT 294	Paramedic Part III	8		
EMT 295	Paramedic Clinical Part III	3		
EMT 296	Advanced Cardiac Life Support	1		
EMT 297	Pediatric Advanced Life Support	<u>'</u>		
EMT 298	Prehospital Trauma Life Support	1		
SFS 230	Rescue Practices	3		
Paramedicine		3-5		
	enroll in 4 credits of Co-op Work Experience.	3-3		
	e list below to meet this requirement:			
EMT 280	•	1		
EMT 280A	Paramedic Co-op Work Experience ³ Paramedic Co-op Work Experience	<u>4</u> 1		
EMT 280B	Paramedic Co-op Work Experience Paramedic Co-op Work Experience	2		
EMT 280C	Paramedic Co-op Work Experience	3		
L/VI ZOUC	гататтечіс Со-ор үүсік Ехрепетісе	3		

Upon completion of EMT 151 and EMT 152, students must pass the National Registry exam and be certified in the state of Oregon before continuing in Paramedic courses. Currently certified students do not need to retake the courses for the degree but must hold a current Oregon EMT License or higher to enter the Paramedic program. License must remain current during entire program including CWE; failure to maintain current license and CPR card will result in student removal from the program.

FOOTNOTES

- ¹ Students planning to transfer should take MTH 105 or 111.
- ² Approved Paramedicine electives: ANTH 103, BI 234, CJ 100, EMT 163, EMT 164, OL 244, PSY 101, PSY 201, PSY 202, PSY 216, SOC 201, SOC 206.
- ³ Student will have the option if affiliated with a transporting EMS agency to enroll in a 1 credit CWE course in the Winter and/or Spring terms. If a student completes a CWE in one or both of these terms, they will enroll in a two or three credit CWE for the Summer term in order to have a total of four credits worth of CWE. Summer CWE is required by the program as more than 50% of a student's patient contacts needs to happen at the conclusion of all didactic and clinical experiences.

PHARMACY TECHNICIAN

Certificate of Completion 51 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Pharmacy Technician

PROGRAM DESCRIPTION

The Pharmacy Technician training program prepares individuals for employment in the pharmacy industry. Pharmacy technicians are skilled workers who are educated and trained to work in a pharmacy and assist in all areas of the pharmacy not requiring the professional judgment of the registered pharmacist. Some current practice areas for the pharmacy technician include retail, hospital, manufacturing, disease state management and mail order and insurance claim specialists. The pharmacy technician processes prescriptions and medication orders and plays an integral role in maintaining the pharmacy department.

Courses are offered in an online and hybrid format. The curriculum focuses on the abilities needed to assist the pharmacist and provide the skills necessary to process prescriptions accurately, participate in administration and management of a pharmacy and maintain inventory. Topics of study include medical terminology, anatomy and functions of the human body, therapeutic classification and drug names, pharmacy procedures, pharmaceutical calculations, pharmacy law and interpersonal communication. Students will have a working knowledge of sterile technique, standards of practice, quality assurance and patient confidentiality. In addition, students will develop and practice communication skills needed to function in a professional setting. In order to gain workplace experience, students will also participate in a hospital and retail pharmacy practicum.

The pharmacy technician curriculum was developed using the accreditation standards of the American Society of Health-System Pharmacists (ASHP) and is tailored specifically to the students in the program. This program prepares students to pass the National Pharmacy Technician Certification exam required by the Oregon Board of Pharmacy to practice as a pharmacy technician in the state of Oregon. Students are required to obtain a pharmacy technician license from the Oregon Board of Pharmacy to participate in the practicum. The application process for the pharmacy technician license will require a criminal background search.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following program costs:

- Program fee of \$150 per term (or a total of \$450 for the three-term pharmacy technician cohort)
- In some cases \$150 to \$300 for fees associated with required immunizations and tuberculosis screening
- \$45-60 drug screening
- \$55 background check
- \$65 for American Heart Association CPR for Health Care Providers certificate
- Distance students will be responsible for the cost of travel and expenses to the COCC campus for the two lecture labs in the Fall and Winter terms.

PROGRAM PREREQUISITE COURSES

All prerequisite courses must be passed with a "C" or better to register for the Pharmacy Technician program.

- MTH 058 Math Literacy I, MTH 065 Algebra II or higher, or placement scores resulting in MTH 095 placement (4 credits)
 - Recommended pathway (MTH 010 if needed), MTH 058, MTH 098
- WR 065/095 or minimum placement scores resulting in WR 121 placement (4 credits)
- See the CAP Center website for scores needed to place in the above courses. cocc.edu/CAP.
- Complete COCC online orientation available at cocc.edu/onlineorientation.

PROGRAM PRE-ENTRY REQUIREMENTS DUE PRIOR TO FALL TERM

Documents required for entry into the Pharmacy Technician program must be submitted after students register for the program. A letter of instruction is emailed to all registered and waitlisted students at the end of Spring term with an assigned documentation due date prior to Fall term. Failure to submit the required paperwork by the assigned date will result in administrative withdrawal from the program. The following documents are required prior to entry into the Pharmacy Technician program:

- A high school diploma, a high school transcript noting successful graduation, or a GED.
- 18 years of age.
- Completion of all prerequisite courses with a grade of "C" or better (see program prerequisites).
- Criminal history check (CHC), with vendor chosen by COCC, as a condition of acceptance into the program.
 - Students with criminal convictions noted on the DHS permanent, 10-year or 5-year review list will be disqualified from attending the Pharmacy Technician program until their criminal record has been cleared. For a list of disqualifying crimes, see arcweb.sos.state.or.us/ pages/rules/oars 400/oar 407/407 007.html.
- 10 panel drug screen completed as a condition of acceptance into the program.
 - Students must complete a 10 panel urine drug screen with the vendor chosen by COCC prior to entry into the Pharmacy Technician Program.
 - With the exception of certain prescribed medications, students with a positive drug screen, which prevents them from attending clinical, will be disqualified from entering the program. Please refer to advising information on the program website at cocc.edu/pharmacy-technician.
- Documentation of current immunizations.
 - MMR, Tdap, Varicella, Hep B, Flu, TB, Blood Titer.
- American Heart Association Health Care Provider or American Red Cross CPR card.

MINIMUM GPA OR GRADE REQUIREMENTS

To earn a certificate of completion all required courses must be completed with a grade of "C" or better and students must maintain a 2.0 overall GPA or higher.

REGISTRATION INFORMATION

Program (PHM) courses begin once per year in Fall term. Students wishing to register in the Fall Pharmacy Technician cohort must meet the basic prerequisite competencies and may register according to seat availability on a first-come, first-served basis, determined by the priority registration schedule. Students may view the priority registration schedule at cocc.edu. After successful registration into the Pharmacy Technician program, PHM courses must be taken together and sequentially. Please see the Pharmacy Technician program website cocc.edu/pharmacytechnician for more information or contact the program director and/or the CAP Center.

Once admitted to the program, students must obtain a two-year nonrenewable Pharmacy Technician License from the Oregon Board of Pharmacy. This license is required to participate in the Pharmacy Technician practicum courses. Applicants must have a high school diploma, a high school transcript noting successful graduation, or a GED and be at least 18 years of age. Application for the license will require a background check and fingerprinting. Students unable to obtain a pharmacy technician license will not be able to complete training at affiliated practicum sites or obtain employment in a pharmacy. Students who believe their personal history may interfere with their ability to obtain a license should contact the program director. Information for licensure

PHARMACY TECHNICIAN (continued)

Certificate of Completion 51 credits

is available from the Oregon Board of Pharmacy and can be found at pharmacy.state.or.us or by calling 971.673.0001.

Students must be flexible during the Spring term to participate in the practicum. Students must perform a three-week block of practicum in a hospital or institution and a three-week block of practicum in a retail or community pharmacy. The practicum will be scheduled by the Pharmacy Technician department and the student must be free of commitments to complete the practicum.

PROGRAM STANDARDS

Students must maintain a minimum 2.0 GPA while enrolled in the Pharmacy Technician program. Students who do not meet this standard may be dismissed from the program.

If a student is arrested for any reason while in the Pharmacy Technician program it should be reported to the program director immediately. The information will be reviewed and may affect the student's ability to obtain a pharmacy technician license. If a student is unable to obtain a pharmacy technician license he/she will be unable to complete the practicum and will be dismissed from the Pharmacy Technician program.

NATIONAL AND/OR STATE LEGAL ELIGIBILITY REQUIREMENTS FOR LICENSURE OR ENTRY INTO OCCUPATION

Students must be at least 18 years of age, have a high school diploma, a high school transcript noting successful graduation, or a GED, have no criminal record and pass a National Pharmacy Technician Certification Exam to apply to the Oregon Board of Pharmacy for a Certified Pharmacy Technician License to practice as a pharmacy technician in Oregon.

TRANSFER INFORMATION

This certificate is designed for students planning to enter the pharmacy technician field upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM COURSE REQUIREMENTS

SUPPORT COURSES

AH 115	Cultural Responsiveness in Allied Health	3
MTH 095	Intermediate Algebra	4
(or higher)		
WR 121	Academic Composition	4

CORE COURSES

CORE COOKSES			
PHM 100	Pharmacy Technician Practice I ¹	5	
PHM 101	Pharmacy Technician Law and Ethics ¹	3	
PHM 110	Pharmacy Calculations ¹	3	
PHM 115	Retail Simulation Lab	2	
PHM 120	Drug Classification and Therapeutics I ¹	5	
PHM 130	Drug Classification and Therapeutics II ¹	5	
PHM 140	Pharmacy Technician Practice II ¹	5	
PHM 145	Institutional Simulation Lab	2	
PHM 181	Pharmacy Technician Seminar ¹	2	
PHM 190	Practicum I Hospital/Institution	4	
PHM 191	Practicum II Retail/Community	4	

FOOTNOTE





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¹ Indicates online course.

Program Descriptions

PHYSICS

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

While there are small differences between the physics programs, COCC works to provide the courses common to all programs. Students may have to take some additional courses at the university after transferring to reach junior status within their major.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in physics.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

English Composition		
WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition	4
Recommend: WR 227	Technical Writing	
Oral Commu	nication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics	•	
MTH 251	Calculus I	4
Health (3 credits with HHP prefix) HHP activity courses (1 credit each) are not to be duplicated		
GENERAL EDUCATION/DISCIPLINE STUDIES See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.		
Arts and Letters 9-3 At least three (3) courses from at least two (2) prefixes.		9-12
Social Science 12-1 At least four (4) courses chosen from at least two (2) prefixes.		12-16
Science/Math/Computer Science 12-20		12-20
At least four (4) courses chosen from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.		

Recommend: MTH 252

PH 211

PH 212

PH 213

Calculus II

General Physics I

General Physics II

General Physics III

ELECTIVES		
CH 221	General Chemistry I	5
CH 222	General Chemistry II	5
CH 223	General Chemistry III	5
ENGR 201	Electrical Fundamentals	4
ENGR 202	Electrical Fundamentals II	4
ENGR 211	Statics	4
ENGR 212	Dynamics	4
ENGR 213	Strength of Materials	4
GE 101	Engineering Orientation	3
GE 102	Engineering Problem Solving and Technology	3
MTH 253	Calculus III	4
MTH 254	Vector Calculus I	4
MTH 255	Vector Calculus II	4
MTH 256	Applied Differential Equations	4

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POLITICAL SCIENCE

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in political science.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS		
Writing WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	nication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher)	Math in Society	4
Recommend: MTH 111	College Algebra	
•	dits with HHP prefix) ourses (1 credit each) are not to be duplicated	3
CENTED AT EDUCATION/DISCIPLINE STUDIES		

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Letters 9-12 At least three (3) courses from at least two (2) prefixes.		
Social Science		12-16
At least four (4) courses from at least two (2) prefixes.		
Recommend:		
PS 201	Introduction to US Government and Politics ¹	4
PS 204	Introduction to Comparative Politics ¹	4
PS 205	Introduction to International Relations ¹	4
Plus another course from the Social Science Discipline Studies list that		
does not have a PS prefix.		

Science/Math/Computer Science 12-20

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

ELECTIVES

Introduction to Political Thought¹ Plus choose any college-level course that brings the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education (CTE) courses designated by COCC as acceptable.

FOOTNOTE

Courses in Political Science do not need to be taken in sequence.

ADVISING NOTES

Students pursuing a BA after transfer should consider completing three terms of a 200-level language course. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement.

Students pursuing a BS after transfer should consider taking more math and science courses. Language is not necessary. For specific details, speak with an advisor. It is recommended that students pursuing a political science major take additional social sciences courses to fulfill some of their elective credits. Economics, geography and history courses are particularly helpful in this regard.

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PRE-DENTAL HYGIENE

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

COCC does not offer a dental hygiene program, but does offer many commonly required prerequisite courses. This Associate of Arts Oregon Transfer (AAOT) degree includes commonly required dental hygiene prerequisites.

Dental Hygiene programs typically have selective admission determined by the institution. A criminal history may affect employment opportunities. Students should contact their intended transfer school to determine exact requirements.

The Associate of Arts Oregon Transfer degree meets the state of Oregon transfer degree requirements allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

CENIEDAL EDUCATION/EQUINDATIONAL DEQUIDEMENTS

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS		
Writing		
WR 121	Academic Composition	4
WR 122	Argument, Research and Multimodal Composition	4
Oral Commu	nication	
SP 111	Fundamentals of Public Speaking	4
Mathematics		
MTH 105	Math in Society	4
(or higher)		
Recommend:		
MTH 111	College Algebra	
•	dits with HHP prefix)	3
HHP activity co	ourses (1 credit each) are not to be duplicated	
GENERAL EDUCATION/DISCIPLINE STUDIES		

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Letters At least three (3) courses from at least two (2) prefixes.		9-12
Social Science At least three (3) additional courses from at least two (2) prefixes. Recommend:		12-16
SOC 201	Introduction to Sociology	4
Science/Math/Computer Science		12-20
BI 231	Human Anatomy and Physiology I	4
BI 232	Human Anatomy and Physiology II	4
BI 233	Human Anatomy and Physiology III	4
FN 225	Human Nutrition	4

ELECTIVES

Choose any college-level course that brings the total credits to 90 quarter hours. This may include up to 9 credits of Career and Technical Education courses (in addition to AH 111) designated by COCC as acceptable.

AH 111	Medical Terminology I	3
BI 234	Microbiology	4
CHEM 104	Introduction to Chemistry I	4
CHEM 105	Introduction to Chemistry II	4
CHEM 106	Introduction to Chemistry III	4

ADVISING NOTES

For a list of accredited Dental Hygiene programs, contact the American Dental Association ada.org/357.aspx.

If transferring to Lane Community College: PSY 201 or 202 and WR 227 are recommended. Lane gives additional application points for Spanish language proficiency (completion of SPAN 102 or CLEP test score of 50 or higher). See LCC's catalog and website for details.

If transferring to Mt. Hood Community College: a psychology elective is recommended. See MHCC's catalog and website for details.

If transferring to Oregon Tech (OIT): Oregon Institute of Technology requires DHE 100 Introduction to Dental Hygiene (2) and is offered online. OIT requires completion of CH 104 only. See OIT's catalog and website for details.

If transferring to Portland Community College: a psychology elective is recommended. See PCC's catalog and website for details.

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PRE-LAW

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

Most law schools have no requirements for a pre-law curriculum and will accept a bachelor's degree in any major. Students should develop an educational program that is broad, yet provides depth of understanding in at least one subject area, along with fundamental insights into human institutions and values. The emphasis should be on a degree program that meets students' needs and interests, that students find challenging and in which students will do their best work and will earn good grades.

Legal educators agree that the development of particular skills and habits will contribute more to success in law school than a major in any one subject. Therefore, coursework should focus on strengthening habits of thoroughness, intellectual curiosity, scholarship, the ability to research a topic, write concisely, analyze information and think critically. Verbal and written communication skills are very important.

Courses in literature, language, composition, logic and linguistics are directly concerned with the cultivation of these skills. In addition, lawyers must be adept at problem solving and organizing information to support a point of view. Courses in political science, economics, American and British history, journalism, philosophy and business principles will provide an opportunity to practice these skills and to gain an understanding of social institutions and values.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in pre-law.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	nication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher)	Math in Society	4
Recommend: MTH 111	College Algebra	
Health (3 credits with HHP prefix) HHP activity courses (1 credit each) are not to be duplicated		3

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Letters 9-12

At least three (3) courses from at least two (2) prefixes.

Social Science 12-16

At least four (4) courses from at least two (2) prefixes.

Science/Math/Computer Science 12-20

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

ELECTIVES

Choose any college-level course that brings the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education (CTE) courses designated by COCC as acceptable.

ADVISING NOTES

Students pursuing a BA after transfer should consider completing three terms of a 200-level language course. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement.

Students pursuing a BS after transfer should consider taking more math and science courses. Language is not necessary. For specific details, speak with an advisor.

PRE-MEDICINE, PRE-DENTISTRY, PRE-VETERINARY

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

Students interested in pursuing professional degrees in medicine, dentistry or veterinary medicine are required to complete a bachelor's degree, preferably in a related area, including any of the biological sciences. To provide a solid foundation for bachelor's degree work, students are encouraged to complete the Associate of Arts Oregon Transfer (AAOT) degree, with an emphasis on pre-med, -vet and -dentistry related coursework. A suggested course of study is listed below. Students may transfer to a baccalaureate institution without the AAOT; however, completion of this degree guarantees that a student will transfer to an Oregon public university with junior standing and that all lower-division general education coursework is complete.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing WR 121 WR 122 or WR 227	Academic Composition Argument, Research and Multimodal Composition Technical Writing	4 4
Oral Commu		3-4
or SP 114 or SP 115 or SP 218 or SP 219	Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher)	Math in Society	4
Recommend: MTH 111	College Algebra	
Health (3 credits with HHP prefix) HHP activity courses (1 credit each) are not to be duplicated		
CENTERAL EDUCATION/DISCIPLINE STUDIES		

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Let At least three	ters (3) courses chosen from at least two (2) prefixes.	9-12
Social Science At least four (4) courses from at least two (2) prefixes.		12-16
Science/Math/Computer Science 12-20 At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend:		t least
BI 211	Principles of Biology I	5
BI 212	Biology of Plants II	5
BI 213	Biology of Animals III	5
CH 221	General Chemistry I	5

ELECTIVES

Students should take enough electives to reach the 90 minimum credits required for the AAOT degree.

required for the	e AAOT degree.	
CH 222	General Chemistry II	5
CH 223	General Chemistry III	5
FN 225	Human Nutrition	4
MTH 112	Elementary Functions	4
MTH 113	Topics in Precalculus	4
MTH 251	Calculus I	4
MTH 252	Calculus II	4
MTH 253	Calculus III	4
PH 201, 202, 203 General Physics I, II, III		
or PH 211, 212, 213 General Physics I, II, III		





PRE-PHYSICIAN ASSISTANT AND PRE-PHYSICAL THERAPY

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

Students interested in pursuing professional degrees to become a Physician Assistant (PA) or Physical Therapist (PT) are required to complete a bachelor's degree, preferably in a related area, including any of the biological sciences. To provide a solid foundation for bachelor's degree work, students are encouraged to complete the Associate of Arts Oregon Transfer (AAOT) degree, with an emphasis on pre-PA or pre-PT coursework. A suggested course of study is listed below. Students may transfer to a baccalaureate institution without the AAOT; however, completion of this degree guarantees that a student will transfer with junior standing and that all lower-division general education coursework is complete.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Wri	ting
WR	121

Oral Communication			
or WR 227	Technical Writing		
WR 122	Argument, Research and Multimodal Composition	4	
WR 121	Academic Composition	4	

Oral Communication		
Fundamentals of Public Speaking	3-4	
Argumentation and Critical Discourse		
Introduction to Intercultural Communication		
Interpersonal Communication		
Small Group Communication		
	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication	

Mathematics MTH 105 (or higher)	s Math in Society	4
Recommend: MTH 111	College Algebra	
Health (3 cre	dits with HHP prefix)	3

GENERAL EDUCATION/DISCIPLINE STUDIES

HHP activity courses (1 credit each) are not to be duplicated

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Letters	9-12
At least three (3) courses from at least two (2) prefixes.	

Social Science 12-16

At least four (4) courses from at least two (2) prefixes.

Science/Math/Computer Science 12-20

The two PA programs in Oregon, Oregon Health & Sciences University (OHSU) and Pacific University have a year of Human Anatomy & Physiology as a prerequisite. BI 231-233 (Human Anatomy & Physiology I, II, III) fulfills this requirement.

The OHSU PA program also has a Microbiology lecture-and-lab course as a prerequisite. BI 234 (Microbiology) fulfills this requirement. BI 234 also can be applied as a biological sciences prerequisite for the PA program at Pacific University.

The two PA programs in Oregon also have a chemistry prerequisite, which can be met with courses in CH 104-106 (Introduction to Chemistry I, II, III) and/or CH 221-223 (General Chemistry I, II, III).

The Pacific University PT program also has one year of general physics (non-calculus based) as a prerequisite, which can be met with PH 201-203 (General Physics I, II, III).

The student and her/his advisor should review program prerequisites to determine what other courses may be taken at COCC.

The AAOT itself has the following requirements:

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

BI 211	Principles of Biology I	5
BI 212	Biology of Plants II	5
BI 213	Biology of Animals III	5
CH 221	General Chemistry I	5

ELECTIVES

Students should take enough electives to reach the 90 minimum credits required for the AAOT degree.

Recommend:

CH 222	General Chemistry II	5
CH 223	General Chemistry III	5
FN 225	Human Nutrition	4
MTH 112	Trigonometry	4
MTH 113	Topics in Precalculus	4
MTH 251	Calculus I	4
MTH 252	Calculus II	4
MTH 253	Calculus III	4
PH 201, 202, 2	203 General Physics I, II, III	15
or PH 211, 212	2, 213 General Physics I, II, III	

The following websites are helpful tools in identifying colleges across the U.S. which offer either a Physician Assistant and/or Physical Therapy degree and their respective lower division requirements.

American Physical Therapy Association: apta.org.

Physician Assistant Education Association: paeaonline.org.

PSYCHOLOGY

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in psychology.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing WR 121	Anadamia Campasitian	1
WR 121 WR 122 or WR 227	Academic Composition Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	Fundamentals of Public Speaking	3-4
or SP 114 or SP 115 or SP 218 or SP 219	Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	
Mathematics MTH 105 (or higher)	Math in Society	4
Recommend: MTH 111	College Algebra	
•	dits with HHP prefix) ourses (1 credit each) are not to be duplicated	3

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and L At least thre	ee (3) courses from at least two (2) prefixes.	9-12
	r (4) courses from at least two (2) prefixes.	12-16
Recommen	a:	
PSY 201	Mind and Brain ¹	4
PSY 202	Mind and Society ¹	4

Science/Math/Computer Science 12-20 At least four (4) courses from at least two (2) prefixes including at least

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

ELECTIVES

Choose any college-level course that brings the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education (CTE) courses designated by COCC as acceptable.

ADVISING NOTES

If a student has graduated high school or earned a GED after 1997, two years of the same world language earned at the high school level or two quarters of the same world language at the undergraduate level is required for admittance to most Oregon public universities. For specific details, speak with an advisor.

Students pursuing a BA after transfer should consider completing three terms of a 200-level language course. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the Arts and Letters requirement.

Students pursuing a BS after transfer should consider taking more math and science courses. In general, two 100-level or higher math courses beyond the foundational mathematics requirement fulfills the Bachelor of Science. These will also partially fulfill the Science/Math/Computer Science Discipline Studies requirement. Language beyond entrance requirements is not required.

Although students may take whichever science sequence they prefer, it is recommended to take BI 101-103 or BI 231-233 due to the relevance these courses have to upper-division psychology courses.

PSY 204, PSY 213 and PSY 227 fulfill the science lab requirement if a sequence is not essential.

Students are advised to consider the following psychology courses as electives to gain further insight into the field and to help them determine what area of psychology they may be interested in pursuing: PSY 204, PSY 213, PSY 214, PSY 215, PSY 216, PSY 219, PSY 227, PSY 233. With the exception of PSY 204, PSY 213 and PSY 227 (see Science/Math/Computer Science lab course fulfillment), these courses will also partially satisfy the Social Science AAOT requirements. Any other potential special topics courses that are offered from time to time will be electives as well.

Students who are considering clinical or counseling psychology might consider the following electives: EMT 195, ED 265, HS 161, HS 162, HS 201, HS 206, HS 209, HS 224, HS 260 and HS 262. HS 224 will meet a non-lab Science/Math/Computer Science requirement. HS 206 and HS 208 will partially complete the Social Science requirement.

Psychology students will be required to take Statistics when they transfer. Although MTH 111 is sufficient for the math requirement, advisors recommend taking one or both of MTH 243 and MTH 244 to finish the science requirement and to allow students to be exposed to statistics beforehand. However, for OSU, MTH 243 and MTH 244 currently do not fulfill the BS math requirements. PSY 204 is also a good preparation for upper division statistics required for a PSY BA or BS.

TRANSFER INFORMATION

Note that individual institutions may have additional requirements or will change the category that a course satisfies if the AAOT is not completed, or is transferred to an out-of-state college or university. For admission into a particular program, courses may be added. Students who plan to transfer should contact the institution they plan to attend to ensure they have fulfilled the specific requirements for their program.

Students have the option of pursuing a bachelor's degree in psychology through Oregon State University – Cascades (contact 541.322.3100) or through a distance program with Eastern Oregon University (contact EOU advisor, 541.385.1137); both programs are available in Central Oregon. Students planning to attend OSU should include in their AA degree the following OSU major requirements: BI 101-103, PSY 201, PSY 202, WR 227.

FOOTNOTES

¹ These courses do not need to be taken in sequence.

PUBLIC HEALTH

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

Careers in public health are multifaceted, as are the opportunities for further study. Career options and areas of study include Behavioral and Social Science, Biostatistics and Informatics, Community Health, Epidemiology, Environmental Health, Global Health, Health Policy and Management, Health Promotion, Maternal and Child Health, Minority Health and Health Disparities, and Public Health. Public Health professionals focus on preventing disease and injury by promoting healthy lifestyles. They also work to improve the conditions that affect the health of populations by addressing personal, community, environmental and global health concerns to increase access to health care, prevent and control chronic and infectious diseases, limit health disparities and reduce environmental hazards, violence and substance abuse.

This Associate of Arts Oregon Transfer (AAOT) program is designed as a broad-based degree in the area of health studies in communities and populations. The program is also designed for maximum transferability into the Oregon State University College of Public Health & Human Sciences: Bachelor of Science in Public Health, 2 tracks: Health Promotion & Health Behavior and Health Management & Policy. The new joint School of Public Health at Oregon Health Sciences University and Portland State University will soon offer a bachelor degree in Public Health, pending their accreditation review. Students should check with specific universities to ensure the most current transfer information is accessed when designing their program.

The AAOT degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and many out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and review specific transfer requirements.

The following is a suggested course of study for students interested in transferring to a bachelor's degree program in public health or health studies or community health. This information reflects an accurate picture of transfer requirements at the time of approval, using catalog, advisors and web resources for consultation. However, degree requirements can and do change. Students should use their transfer destination's academic resources to keep abreast of requirements.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	ınication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher)	s Math in Society	4
Recommend: MTH 111	College Algebra	
•	dits with HHP prefix) ourses (1 credit each) are not to be duplicated	3

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course.

Arts and Letters 9-12 At least three (3) courses from at least two (2) prefixes.		
Social Scien	ce 4) courses from at least two (2) prefixes.	12-16
Recommend:	Ty courses from at least two (2) prefixes.	
HHP 100*	Introduction to Public Health	4
HHP 248*	Health Psychology	4
PSY 201	Mind and Brain	4
SOC 201	Introduction to Sociology	4
Science/Math/Computer Science At least four (4) courses from at least two (2) prefixes including at least three (3) leavest three (4) leavest three (5) leavest three (6) lea		

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science. Recommend:

BI 101	General Biology I: Cells & Genes	4
BI 102	General Biology II: Evolution	4
BI 103	General Biology III: Ecology	4
MTH 243	Introduction to Probability & Statistics I	4

ELECTIVES

Choose enough elective credits to reach a minimum total of 90 overall degree credits. Elective courses must be numbered 100 or above and can be any combination of general electives, Career and Technical Education (CTE) courses (12 credits maximum) or CWE/HHP performance courses (15 credits maximum).

Recommend:

EC 201	Microeconomics	4
HHP 210*	Introduction to the Health Care System	3
HHP 231	Human Sexuality	3
HHP 240	Science of Nutrition	3
HHP 267	Wellness Coaching	3
HHP 281	Public Health Practicum	1-2
SOC 212	Race, Class and Gender	4

ADVISING NOTES

*Pre-Public Health Core Courses

The following courses are essential lower division core courses for students intending to transfer to OSU's Bachelor of Science in Public Health, to Portland State University's BA/BS in Health Studies and to the new BSPH at Oregon Health Sciences University and Portland State University's new joint School of Public Health currently undergoing national accreditation review.

HHP 100	Introduction to Public Health	4
HHP 210	Introduction to the Health Care System	3
HHP 248	Health Psychology	4
MTH 243	Introduction of Probability and Statistics I	4

Note: HHP 100 articulates with PSU's PHE 250 in the BA/BS Health studies.

Lab fees

- \$20 for HHP 212A (1 credit)
- \$20 for all HHP 185 activity courses for Mazama Gym user fee

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Program Descriptions

SOCIOLOGY

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in sociology.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

GENERAL E	DOCATION/FOUNDATIONAL REQUIREMENT	3
Writing WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	unication	
SP 111	Fundamentals of Public Speaking	3-4
or SP 114	Argumentation and Critical Discourse	
or SP 115	Introduction to Intercultural Communication	
or SP 218	Interpersonal Communication	
or SP 219	Small Group Communication	
Mathematics	s	
MTH 105 (or higher)	Math in Society	4
Recommend:		
MTH 111	College Algebra	
•	dits with HHP prefix) ourses (1 credit each) are not to be duplicated	3
See the Discip	DUCATION/DISCIPLINE STUDIES line Studies list for options. One of the courses must be the list as a cultural literacy course.	e

designated on the list as a cultural literacy course.

Social Scien		12-16
At least four	(4) courses from at least two (2) prefixes.	
Recommend	:	
SOC 201	Introduction to Sociology	4
SOC 211	Social Deviance	4
SOC 212	Race, Class and Gender	4
SOC 250	Sociology of Popular Culture	4

Science/Math/Computer Science

At least three (3) courses from at least two (2) prefixes.

Arts and Letters

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

ELECTIVES

Choose any college-level course that brings the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education (CTE) courses designated by COCC as acceptable.

ADVISING NOTES

Students pursuing a BA after transfer should consider completing three terms of a 200-level language course. The 100-level language courses will count as electives. The 200-level language courses will partially fulfill the arts and letters requirement.

Students pursuing a BS after transfer should consider taking more math and science courses. Language is not necessary. For specific details, speak with an advisor.

Students are advised to consider the following sociology courses as electives to gain further insight into the field and to help them determine what area of sociology they may be interested in pursuing: SOC 206, SOC 208, SOC 211, SOC 212, SOC 215, SOC 219, SOC 250 and any other potential special topics courses that are offered from time to time.

Sociology students typically will be required to take Statistics when they transfer. Although MTH 111 is sufficient for the math requirement, for OSU, advisors recommend taking MTH 243 and MTH 244 to finish the science requirement and to allow students to be exposed to statistics beforehand.

TRANSFER INFORMATION

Note that individual institutions may have additional requirements or will change the category that a course satisfies if the AAOT is not completed, or is transferred to an out-of-state college or university. For admission into a particular program, courses may be added. Students who plan to transfer should contact the institution they plan to attend to ensure they have fulfilled the specific requirements for their program.

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STRUCTURAL FIRE SCIENCE

Associate of Applied Science (AAS) Degree 96-99 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Structural Fire Science

PROGRAM DESCRIPTION

Program Mission: To provide students with the necessary skills, knowledge and abilities to enter the fire service or to increase skills, knowledge and abilities for those already employed as a firefighter.

Outcomes:

- Explain and apply strategic tactical priorities for safety, rescue, incident control and loss control for situations including: fire suppression, search and rescue, hazardous materials and disaster management.
- Effectively communicate with others using methods appropriate to the situation, population and multidisciplinary agencies.
- Demonstrate appropriate leadership skills and styles to promote effective teamwork in the field and within emergency service organizations.
- Apply safety practices to prevent the occurrence and severity of hostile fires, to mitigate the effect of fire on people and to assist in the determination of the cause of such fires.
- Demonstrate professional conduct by displaying a personal code of ethics, positive work ethics, flexibility, teamwork skills, physical fitness, safe procedures and sensitivity to diverse cultures and individuals.

The Structural Fire Science program is accredited by the Department of Public Safety Standards and Training (DPSST) and International Association of Fire Service Accreditation Congress (IFSAC).

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

- CPR for Healthcare Provider card \$55, must remain current throughout EMT class.
- Background check, immunization upload and 10-panel drug screen is required for all students entering into the EMT class at an approximate cost of \$110.
- In some cases fees associated with immunizations can range from \$20-\$200.
- Fee for State Certification Testing and National Registry Test (currently \$170-\$350).
- Materials (boots, ear protection, gloves, etc.) \$200-\$350
- Other special equipment and clothing may be required as part of this program.

ADVISING NOTES

The program requires hands-on training in fire and emergency medical skills and NFPA Firefighter I certification which requires a significant amount of on-the-job training (OJT) by joining a fire agency that require students to work with and around mechanical equipment, ropes, fire pumps, fire hose and appliances, ladders, various apparatus and hand tools (both manual and powered). Most local fire agencies have student and volunteer positions. Students must apply and compete for these positions. Passing a written and physical agility exam is required for acceptance into these positions. Students desiring to complete a degree in Structural Fire Science and Paramedicine must follow a specific course of study. Please see the program director for information.

PROGRAM PREPARATION AND PREREQUISITES

Recommended prior to entry into Structural Fire program-specific courses:

- High school diploma or GED.
- Students must be 18 or older for state and national testing for EMT and affiliation with a fire agency. Students do NOT need to be 18 to begin taking SFS courses.
- All COCC students seeking enrollment in the EMT course and/or agency affiliation that requires practical experience will have to pass

a criminal history check (CHC) as a condition of their acceptance into a medical, fire or other facility for training. Students who do not pass the CHC may not be eligible to complete training at affiliated sites, to sit for licensure or certification exams, or to be hired for some professional positions. Students who believe their personal history may interfere with their ability to complete the program of study or to obtain licensure or certification in their chosen field should contact the appropriate state board or the program director.

- Complete a 10 panel urine drug screen with Verified Credentials, Inc.
 With the exception of certain prescribed medications, students with a
 positive drug screen, which prevents them from attending clinical,
 will be disqualified from entering the program. Please refer to the
 Structure Fire Science website and/or program handbook for more
 detailed information.
- All students will undergo drug screening, background check and immunization verification with the vendor approved by Central Oregon Community College, prior to entrance into the EMT courses, at their expense. Students will be administratively withdrawn from the program and the seat given to an alternate student if requirements are not initiated with the specified vendor by the due date indicated by the SFS program. Students with a positive urine drug screen will be disqualified from entering the EMT courses at Central Oregon Community College, with the exception of certain prescribed medications. The director of EMS/SFS will notify the student of positive drug screens and their resulting disqualification from the program. Students have a right to appeal the decision.

MINIMUM GPA OR GRADE REQUIREMENTS

All courses listed in the degree requirements must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

Most Structural Fire Science program-specific courses begin once per year in Fall term; there are a few entry-level courses offered several times per year and non-program support courses can begin in a term other than Fall or if students need to build skills related to the prerequisites. As a general rule, general education courses should be taken during year one and SFS specific courses in year two. Exceptions are based on individual student's education and experience.

PROGRAM STANDARDS

Students must maintain a minimum 2.0 GPA while enrolled in the program and if affiliated and receiving a scholarship will be held to a higher GPA standard; students who do not meet this standard may be dismissed from the program. Students may also be dismissed if the student has violated a criminal or ethical standard.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

Prior to taking the Emergency Medical Technician exam, students must answer background information questions concerning felony convictions, any regulatory discipline, ethical violations and mental competence. For more information, contact the SFS director at 541.383.7404.

TRANSFER INFORMATION

This degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions. Currently, the COCC Structural Fire Science program has articulation agreements with Eastern Oregon University. For more information on these bachelor degree programs, please contact the SFS director at 541.383.7404.

Program Descriptions

STRUCTURAL FIRE SCIENCE (continued)

Associate of Applied Science (AAS) Degree 96-99 credits

PROGRAM C	OURSE REQUIREMENTS	
Foundational	Requirements	
Communicati	•	
WR 121	Academic Composition	4
WR 227	Technical Writing	4
Mathematics	reelinied (mining	
MTH 0651		4
		4
(or higher)		
Program Req		_
EMT 151	Emergency Medical Technician-Part A	5
EMT 152	Emergency Medical Technician-Part B	5
SFS 101	Introduction to Emergency Services	4
SFS 102	Fire Polyntian and Combustion I	3
SFS 105 SFS 110	Fire Behavior and Combustion I Building Construction for Fire	3
SFS 110	Public Education and Fire Prevention	3
SFS 120	Fixed Systems & Extinguisher	3
SFS 123	Hazmat Awareness & Operations	3
SFS 133	Fire Entry Exams	3
SFS 210	Fire Investigation	3
SFS 212	Fire Codes and Ordinances	3
SFS 232	Hydraulics and Water Supply	4
SFS 275	Fire Tactics and Strategies w/Capstone	3
WF 215	Urban Interface	3
Other Require		
CH 104		4.5
or GS 105	Introduction to Chemistry I Chemistry	4-5
FOR 211	Supervision & Leadership	3
Health Course,	· · · · · · · · · · · · · · · · · · ·	3
HHP 242	Stress Management	3
or HHP 266	Nutrition for Health	J
or HHP 295	Health and Fitness	
Activity Course,		1
HHP 185	Any	·
PH 201	General Physics	4-5
or GS 104	Physics	
Speech Course,	,	
SP 111	Fundamentals of Public Speaking	3-4
or SP 115	Introduction to Intercultural Communication	
or SP 218	Interpersonal Communication	
or SP 219	Small Group Communication	
Approved Dis	cipline Studies List	
Choose one:		3-4
	234, CJ 100, OL 244, PSY 101, PSY 201, PSY 202,	
PSY 216, SOC	201	
ELECTIVES		
	quired to choose nine credits from the SFS technical	
elective list.	W 0 17 · 1	2
AH 111	Medical Terminology	3 2
EMT 170	Emergency Response Comm./Documentation	
EMT 171 EMT 195	Emergency Response and Patient Transport Crisis Intervention	2
FOR 130	Chainsaw Use & Maintenance	2
SFS 121	Fire Law	1
SFS 121	Fire Department Budgets	1
SFS 205	Fire Behavior and Combustion II	3
SFS 263	Human Behavior in Fire	3
WF XXX	All WF prefix courses accepted as elective credit	1-9

FOOTNOTES

¹ Students planning to transfer to an institution offering a four-year degree should take MTH 105 or higher.

The following are required for graduation in the SFS program and are only obtainable through affiliation in a fire agency:

- NFPA Firefighter I
- NFPA Hazmat Awareness & Operations
- I-200 FEMA or NWCG certified course

Upon Completion of EMT 151 and EMT 152, student must pass the National Registry of EMT's written and Oregon Practical exams. Currently certified students do not need to retake the courses for the degree.

Students must hold a current EMT or higher Oregon certification for graduation with an SFS degree.

UNDECLARED TRANSFER

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

If a student plans to transfer in order to a earn a bachelor's degree at another college or university but has not yet decided on a major, COCC identifies the student as "undeclared transfer." This goal aligns with the Associate of Arts Oregon Transfer (AAOT) degree plan because it provides a guideline of courses that meet bachelor's degree general education requirements at Oregon public universities. The AAOT degree does not include all bachelor degree requirements for freshmen and sophomores, and it does not include requirements for COCC's Career and Technical Education (CTE) programs. For these reasons, it is important for undeclared transfer students to work actively with an academic advisor to identify an educational goal.

The Associate of Arts Oregon Transfer (AAOT) degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

All courses must be completed with a grade of "C" or better.

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Writing WR 121	Academic Composition	4
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	ınication	
SP 111 or SP 114 or SP 115 or SP 218 or SP 219	Fundamentals of Public Speaking Argumentation and Critical Discourse Introduction to Intercultural Communication Interpersonal Communication Small Group Communication	3-4
Mathematics MTH 105 (or higher)	Math in Society	4
Recommend: MTH 111	College Algebra	
HHP activity co	dits with HHP prefix) ourses (1 credit each) are not to be duplicated	3
Recommend: HHP 295	Health and Fitness	3

ELECTIVES

Arts and Letters

Social Science

Choose any course numbered 100 or above that brings the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education (CTE) courses designated by COCC as acceptable.

At least four (4) courses from at least two (2) prefixes, including at least three (3) laboratory courses in biological and/or physical science.

At least three (3) courses from at least two (2) prefixes.

At least four (4) courses from at least two (2) prefixes.

Science/Math/Computer Science

ADVISING NOTES

Nearly all bachelor's degrees are either a bachelor of arts (BA) or a bachelor of science (BS). Students pursuing a BA usually need to complete two years of a world language (the 200-level language courses may be applied to the Arts and Letters requirement in Discipline Studies). Students pursuing a BS should consider taking more math and science courses. Students should refer to the transfer college's degree requirements for details.

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12-16

12-20

VETERINARY TECHNICIAN

Associate of Applied Science (AAS) Degree 105-106 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Veterinary Technician

PROGRAM DESCRIPTION

Veterinary technicians are integral members of the veterinary health care team, supporting the veterinarian in all aspects of animal care. Veterinary technicians perform animal restraint, medication administration, laboratory tests, dental prophylaxis, radiography, surgical assisting and client education. While the majority of veterinary technicians are employed in private clinical practice, other employment opportunities include biomedical research, pharmaceutical and veterinary supply sales, zoo and wildlife medicine, shelter medicine, teaching, military service and food safety, among others.

The Veterinary Technician Associate of Applied Science (AAS) degree is a two-year program designed to prepare students to take the Veterinary Technician National Examination (VTNE) to become a Certified Veterinary Technician (CVT). The Veterinary Technician program is accredited by the AVMA Committee on Veterinary Technician Education and Activities as a program for educating veterinary technicians.

The Veterinary Technician program provides education in subjects such as animal husbandry, nursing, nutrition, animal handling, parasitology, hematology, microbiology, radiology, pharmacology, anesthesiology, dental prophylaxis, surgical assisting, office procedures and includes externships designed to give students practical hands-on experience to build on the skills learned in the classroom.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate additional program costs. Costs will include:

- Criminal history check, drug screening, immunization verification \$110
- Student lab fee, per term
- In some cases, immunization cost for Tetanus and Rabies \$100-\$900
- Supplies, such as scrubs, lab jacket, coveralls, farm boots, stethoscope, thermometer, bandage scissors, wrist watch, name badge, calculator

• Transportation costs

\$200-\$400 variable

\$300

PROGRAM PREPARATION AND PREREQUISITES

For a detailed discussion of all program admission requirements, students must refer to the current year *Veterinary Technician Program Admissions Handbook* on the Veterinary Technician website. Students must complete a Veterinary Technician program application, which includes completion of the Assessment Technologies Institute Test of Essential Academic Skills (ATI-TEAS) and submit any required documentation as part of their application packet. Admission packets are available at cocc.edu/veterinary-technician. Applications are accepted biennially during Spring term for admission to the Veterinary Technician program for the following Fall term.

Students must complete the following prerequisite courses to be eligible to apply to the veterinary technician program. Prerequisite courses must be completed with a "C" grade or better, with a cumulative GPA of 3.0 or higher. Students must also possess a high school diploma or GED equivalency.

Veterinary Technician Program Prerequisites:

BI 101	Biological Science	4
or BI 211	Principles of Biology I	
GS 105	Chemistry	4-5
or CH 104	Introduction to Chemistry I	
MTH 095	Intermediate Algebra	4
or MTH 111	College Algebra	
(or higher)		
_		

SP 218	Interpersonal Communication	3
WR 121	Academic Composition	4
40 hours of	observation in a veterinary clinic	

REQUIRED AFTER ADMISSION BUT PRIOR TO ENTRY INTO VETERINARY TECHNICIAN COURSES

Once admitted into the Veterinary Technician program, students will need to complete the following before the start of Fall term (see Veterinary Technician Program Admissions Handbook for more details):

- 10 panel urine drug screen
- Criminal history check
- Documentation of immunizations:
- Tdap (required)
- Rabies (recommended)

REGISTRATION INFORMATION

Students are admitted to the Veterinary Technician program through a selective admission process. Admission to the Veterinary Technician program is competitive and enrollment is limited. Program courses must be taken in sequence.

Students are strongly recommended to attend a Veterinary Technician program information session to learn about COCC's Veterinary Technician program and admission requirements prior to application submission. Information session dates and times can be found on the veterinary technician website. Currently, a cohort begins every other Fall term.

PROGRAM STANDARDS

Prerequisite courses must be completed with a "C" grade or better, with a cumulative GPA of 3.0 or higher. Once admitted, students must enroll full time in all courses listed for each term. In order to progress to the next term, students must pass all previous coursework with a grade of 75% or better. All Veterinary Technician coursework must be successfully completed prior to entering the clinical practicum courses.

TRANSFER INFORMATION

This program is intended for students seeking employment as veterinary technicians. These courses are not intended as preparation for a doctor of veterinary medicine degree (see Pre-Vet program). Some courses may transfer to other veterinary technician programs. Please contact your transfer institution for more information.

PROGRAM REQUIREMENTS

Prerequisite courses must be completed with a "C" grade or better, with a cumulative GPA of 3.0 or higher prior to applying to the Veterinary Technician program.

Prerequisites

Prerequisites	i	
BI 101	Biological Science	4
or BI 211	Principles of Biology I	
GS 105	Chemistry	4-5
or CH 104	Introduction to Chemistry I	
MTH 095	Intermediate Algebra	4
or MTH 111	College Algebra	
(or higher)		
SP 218	Interpersonal Communication	3
WR 121	Academic Composition	4
High school di	ploma or GED equivalency	
40 hours of ob	servation in a veterinary clinic	
(Students must	t enroll in all courses each term.)	
First term		
VT 101	Introduction to Veterinary Tech	3
VT 102	Veterinary Terminology	3
VT 103	Animal Hospital and Office Procedures	2
VT 117	Veterinary Anatomy and Physiology I	6

VETERINARY TECHNICIAN (continued)

Associate of Applied Science (AAS) Degree 105-106 credits

Second term		
VT 108	Small Animal Nursing	4
VT 110	Parasitology and Pathology	4
VT 114	Pharmaceutical Math	3
VT 118	Veterinary Anatomy and Physiology II	5
Third term		
VT 111	Hematology and Urinalysis	5
VT 112	Advanced Small Animal Nursing	4
VT 113	Exotic and Lab Animal Medicine	3
VT 116	Pharmacology	4
Fourth term		
VT 200	Radiation Safety	2
VT 201	Anesthesiology and Surgery Techniques	4
VT 203	Large Animal Nursing	4
VT 208	Animal Nutrition	2
VT 212	Veterinary Microbiology	4
Fifth term		
VT 202	Surgical Nursing and Dentistry	4
VT 204	Diagnostic Imaging	3
VT 206	Small Animal Diseases	4
VT 209	Large Animal Diseases	3
Sixth term		
VT 280	Clinical Practicum I	6
VT 281	Clinical Practicum II	4
360 hours on-s	ite at veterinary practices	





WILDLAND FIRE / FUELS MANAGEMENT FIREFIGHTER TYPE II CERTIFICATE

Short-Term Certificate – 18-20 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Short-term Certificate of Completion, Wildland Firefighter Type II

PROGRAM DESCRIPTION

The short-term certificate is designed to provide basic skills for students interested in working in the wildland fire profession. Courses are open to all students and the certificate takes one to two terms/quarters to complete.

Students will meet the standards set forth by the National Wildfire Coordinating Group under the Wildland Qualifications System for the courses that taught using NWCG curriculum and provides certification. The Wildland Fire program also offers more extensive training with a Certificate of Completion in Wildland Fire Suppression as well as an Associate of Applied Science (AAS) degree in Wildland Fire/Fuels Management.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

 Hard hat, gloves, 12" leather boots with Vibram soles, fire clothes, ear protection, eye protection: \$250 - \$500. (Some fire clothes may be provided by the College, check with the program director. Boots will NOT be provided.)

PROGRAM PREPARATION AND PREREQUISITES

High school diploma or GED is recommended

- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 with a grade "C" or better
- Minimum placement scores resulting in MTH 060/085 placement or completion of MTH 020 with a grade "C" or better

MINIMUM GPA OR GRADE REQUIREMENTS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

Program courses begin Winter term.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

- For all Suppression short courses (S-courses), students will be given National Wildfire Coordinating Group (NWCG) certification.
- Minimum qualifications for entry into the occupation is Firefighter Type II (FFT2) which is offered Fall term for the less-than-one-year Firefighter Type II certificate.
- Students will need to be physically fit for employment in the occupation
 of wildland firefighter. For an FFT2 position, students are required to
 pass the arduous "pack test" (three miles in 45 minutes carrying
 45 pounds).

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM COURSE REQUIREMENTS

	COCKET KEECHKEKKEK	
FOR 100	Forestry Program Orientation	1
FOR 110	Wildland Fire Science I	2
FOR 111	Forestry Perspectives	4
or SFS 101	Introduction to Emergency Services	
FOR 230A	Map, Compass and GPS	3
WF 101	Firefighter Type II Training	3
WF 103	Safety for Survival	3
or SFS 102	Firefighter Safety & Survival	
WF elective or FOR 130	Choose from any WF prefix or FOR 130 Chainsaw Use and Maintenance	2-4





cocc.edu -

WILDLAND FIRE / FUELS MANAGEMENT WILDLAND FIRE SUPPRESSION

Certificate of Completion – 42-43 credits

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion, Wildland Fire Suppression

PROGRAM DESCRIPTION

The one-year certificate is designed to provide basic skills for students interested in working in the wildland fire profession. Courses are open to all students and the certificate takes three terms/quarters to complete for students attending full time.

The Wildland Fire program also offers more extensive training with an Associate of Applied Science (AAS) degree in Wildland Fire/Fuels Management.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

 Hard hat, gloves, 12" leather boots with Vibram soles, fire clothes, ear protection, eye protection: \$250-\$500. (Some fire clothes may be provided by the College, check with the program director. Boots will NOT be provided.)

PROGRAM PREPARATION AND PREREQUISITES

- · High school diploma or GED recommended
- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 with a grade "C" or better
- Minimum placement scores resulting in MTH 060/085 placement or completion of MTH 020 with a grade "C" or better

MINIMUM GPA OR GRADE REQUIREMENTS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

Program courses begin once per year in Fall term. Students can take non-program support courses if they begin in a term other than Fall or if they need to build skills related to the prerequisites.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

- For all Suppression short courses (S-courses), students will be given National Wildfire Coordinating Group (NWCG) certification.
- Minimum qualifications for entry into the occupation is Firefighter Type II (FFT2) which is offered Fall/Winter term for the less-than-oneyear Firefighter Type II certificate.
- Students will need to be physically fit for employment in the occupation
 of wildland firefighter. For an FFT2 position, students will be required
 to pass the arduous "pack test" (three miles in 45 minutes carrying
 45 pounds).

TRANSFER INFORMATION

This certificate is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM (COURSE REQUIREMENTS	
Communicat	tion	
WR 121	Academic Composition	4
Human Rela	utions	
FOR 211	Supervision & Leadership	3
Mathematic MTH 085 (or higher)	s Technical Math I	4
CORE REQU	JIREMENTS	
FOR 100	Forestry Program Orientation	1
FOR 110	Wildland Fire Science I	2
FOR 111	Forestry Perspectives	4
or SFS 101	Introduction to Emergency Services	
FOR 230A	Map, Compass and GPS	3
HHP 185	Activity Course	1
HHP 295	Health & Fitness	3
or HHP 242	Stress Management	
or HHP 266	Nutrition for Health	
WF 101	Firefighter Type II Training	3
WF 103	Safety for Survival	3
or SFS 102	Firefighter Safety & Survival	
WF 111	Tactical Decision Simulations	2
WF 215	S-215 Urban Interface	3 3
WF 290	S-290 Intermediate Fire Behavior	3
ELECTIVES		

ADVISING NOTES

FOR 130

WF XXX

Because the short courses are sponsored by the East Slope Training region, the short courses (S-courses) are available to students in the following order:

Students may choose from the courses below for a total of 4 credits:

Any WF prefix course not required for degree

Chainsaw Use and Maintenance

2

2-4

- Sponsored government and state employees, including structural fire agencies, from within the East Slope Training area;
- Sponsored government and state employees, including structural fire agencies, from outside the East Slope Training area; and
- Full-time COCC students/part-time COCC students/private contractors (in that order) who meet the qualifications of the course. Students must provide a copy of training records to the program director.

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WILDLAND FIRE / FUELS MANAGEMENT

Associate of Applied Science (AAS) Degree 97-104 credits

DEGREE AS AWARDED ON TRANSCRIPT

Associate of Applied Science, Wildland Fire/Fuels Management

PROGRAM DESCRIPTION

The degree is designed to prepare a student for a job in Fire/Fuels management. Students will learn importance of how fire/fuels management fits in the managing of ecosystems and natural resources as one of the more important aspects of fire management, including the reintroduction of fire as an ecosystem process.

Outcomes:

A graduate should possess:

- Develop the tools for all levels of decision-making and seek information to improve decision making in wildland fire suppression and management.
- 2. Analyze the interaction of fuels, weather and topography on wildland fire behavior, fireline tactics and safety.
- 3. Interpret, communicate, apply and document wildland fire behavior and weather information.
- 4. Apply the concepts of silviculture as it relates to fuel treatments, fire effects and land management.
- 5. Using mapping tools, interpret GIS data and use for navigation, planning and implementation in fire management.
- Synthesize fire management plans incorporating the philosophical, historical, legal, ecological, social and cultural aspects of land management.
- 7. Integrate concepts of forest and fire ecology in the practice of land and fire management.

COST OF PROGRAM

In addition to standard tuition, student fees and textbooks, students should anticipate the following estimated program costs:

 Hard hat, gloves, 12" leather boots with Vibram soles, fire clothes, ear protection, eye protection: \$250-\$500. (Some fire clothes may be provided by the College, check with the program director. Boots will NOT be provided.)

PROGRAM PREPARATION AND PREREQUISITES

- High school diploma or GED is recommended
- Minimum placement scores resulting in WR 121 placement or completion of WR 065/095 with a grade "C" or better
- Minimum placement scores resulting in MTH 060/085 placement or completion of MTH 020 with a grade "C" or better
- Current employment with a wildland fire suppression organization

MINIMUM GPA OR GRADE REQUIREMENTS

All required courses must be completed at a "C" grade or better and graduates must have an overall 2.0 GPA or higher.

REGISTRATION INFORMATION

Program courses begin once per year in Fall term. Students can take non-program support courses if they begin in a term other than Fall or if they need to build skills related to the prerequisites.

Please note that first year and second year core courses if not taken in consecutive years, may overlap on time. Please check with your advisor and the current schedule.

NATIONAL/STATE LEGAL ELIGIBILITY OR UNIQUE REQUIREMENTS FOR LICENSURE AND/OR ENTRY INTO OCCUPATION, OR ADVANCEMENT IN THE OCCUPATION

- All Suppression short courses (S-courses), students will be given National Wildfire Coordinating Group (NWCG) certification.
- Minimum qualifications for entry into the occupation is Firefighter Type II (FFT2) which is offered Fall/Winter term for the less-than-oneyear Firefighter Type II certificate.

Students will need to be physically fit for employment in the occupation
of Wildland Firefighter. For an FFT2 position, students will be required
to pass the arduous "pack test" (three miles in 45 minutes carrying
45 pounds).

TRANSFER INFORMATION

This degree is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferrable to public or private baccalaureate institutions.

PROGRAM COURSE REQUIREMENTS

Communicat	ion	
WR 121	Academic Composition	4
	·	· ·
Mathematics		4.0
MTH 085	Technical Mathematics I	4-8
and MTH 086		
or MTH 111	College Algebra	
Human Rela	tions	
FOR 211	Supervision and Leadership	3
Program Rec	uirements	
FOR 100	Forestry Program Orientation	1
FOR 110	Wildland Fire Science I	2
FOR 111	Forestry Perspectives	3-4
or SFS 101	Introduction to Emergency Services	
FOR 208	Soils: Sustainable Ecosystems	4
FOR 209	Fire Ecology and Effects	3
FOR 210	Wildland Fire Science II	2
FOR 230A	Map, Compass and GPS	3
FOR 231	GPS Mapping	1
FOR 235	Resource Measurements	4
FOR 236	Aerial Photo	3
FOR 240A	Forest Ecology	3
FOR 241A	Field Dendrology	3
FOR 241B	Dendrology	3
FOR 260	Conservation of Natural Resources	3
FOR 271	Applied Forest Ecology	3
FOR 272	Forest Entomology/Pathology	3
FOR 273	Silviculture and Harvesting	5
GEOG 265	Geographic Information Systems	4
GEOG 273	Spatial Data Collection	5
WF 101	Firefighter Type II Training	3
WF 111	Tactical Decision Simulations	
WF 290	S-290 Intermediate Wildfire Behavior	3
WF 298	S-390 Fire Behavior Calculations	3
Other Requir		0 4
CIS 120	Computer Concepts	0–4
	Competency Test	2.4
Discipline Stud		3-4
HHP 185	Activity Course	1
HHP 295	Health & Fitness	3
or HHP 242	Stress Management	
or HHP 266	Nutrition for Health	2.4
SP 111	Findamentals of Public Speaking	3-4
or SP 115	Introduction to Intercultural Communication	
or SP 218	Interpersonal Communication	
or SP 219	Small Group Communication	
Fire Electives	N/F (c	6
WF XXX	any WF prefix courses	
or BA 101	Introduction to Business	
or FOR 130	Chainsaw Use and Maintenance	
or SFS 101	Introduction to Emergency Services	

Other Program Requirements

or SFS 102

A minimum of 60 days fire-related work experience approved by the Wildland Fire Science director is required for graduation.

Firefighter Safety & Survival

WILDLAND FIRE / FUELS MANAGEMENT (continued)

Associate of Applied Science (AAS) Degree 97-104 credits

ADVISING NOTES

Because the short courses are sponsored by the East Slope Training region, the short courses (S-courses) are available to students in the following order:

- Sponsored government and state employees, including structural fire agencies, from within the East Slope Training area;
- Sponsored government and state employees, including structural fire agencies, from outside the East Slope Training area; and
- Full-time COCC students/part-time COCC students/private contractors (in that order) who meet the qualifications of the course. Students must provide a copy of training records to the program director.





Program Descriptions

12-20

WORLD LANGUAGES

Associate of Arts Oregon Transfer (AAOT) Degree 90 credits

In today's globally interconnected world and increasingly competitive job market, students with proficiency in more than one language, supported by cultural knowledge and empathetic experience of diverse U.S. and world cultures, have a decided advantage in whatever career they may pursue. Bachelor's degree requirements at most Oregon and other universities include demonstrating proficiency at the second-year level in a world language.

The World Languages and Cultures department offers first- and secondyear French, Spanish, German, Italian, Chinese and other courses needed to satisfy lower-division requirements for bachelor's degrees and to prepare transfer students for success in achieving their academic and professional goals. Students seeking a bachelor's degree in Chinese, French, German, Italian, Spanish or a related degree, or a teaching endorsement featuring world language, literature and culture studies are often best served by pursuing the Associate of Arts Oregon Transfer degree (AAOT). Students wishing to begin or continue study of a world language are encouraged to consult college catalogs and work closely with their advisors.

The Associate of Arts Oregon Transfer degree meets the state of Oregon transfer degree requirements, allowing students to transfer to an Oregon public university and some out-of-state universities having met all lower-division general education requirements. With appropriate course planning, all lower-division major requirements may also be met. Students should work closely with an advisor to select the best degree option and to review specific transfer requirements.

The following is a suggested course of study for students interested in pursuing a bachelor's degree in world languages.

Students should check with each school to ensure that the latest transfer information is used when designing their program.

All courses must be completed with a grade of "C" or better.

Interpersonal Communication

Small Group Communication

Academic Composition

GENERAL EDUCATION/FOUNDATIONAL REQUIREMENTS

Wri	ting
WR	121

or SP 218

or SP 219

** I Z I	/ teaderine composition	
WR 122 or WR 227	Argument, Research and Multimodal Composition Technical Writing	4
Oral Commu	inication	
SP 111	Fundamentals of Public Speaking	3-4
or SP 114	Argumentation and Critical Discourse	
or SP 115	Introduction to Intercultural Communication	

Although any of the above courses will satisfy the Oral Communication requirement, the Department of World Languages & Cultures strongly recommends that World Language students take SP 115 Introduction to Intercultural Communication.

Mathematics

Mathematics		
MTH 105	Math in Society	4
(or higher)		
Recommend:		
MTH 111	College Algebra	
Health (3 cre	dits with HHP prefix)	3
HHP activity co	ourses (1 credit each) are not to be duplicated	

GENERAL EDUCATION/DISCIPLINE STUDIES

See the Discipline Studies list for options. One of the courses must be designated on the list as a cultural literacy course. Please note that any second-year language course will fulfill this requirement.

Arts and Letters 9-12

At least three (3) courses from at least two (2) prefixes. Second-year world language courses fit into this category. Any second-year world language course not used to satisfy this requirement may be counted as an elective.

Social Science 12-16

At least four (4) courses from at least two (2) prefixes.

The Department of World Languages & Cultures recommends the following course(s) when available:

ANTH 240 Anthropology of Language

The Department also recommends relevant Geography and History courses when available. For example, a student of Spanish may be interested in the following courses:

ES 213	Introduction to Chicano/Latino Studies
GEOG 107	Cultural Geography
HST 259	Modern Latin American History

Science/Math/Computer Science

At least four (4) courses from at least two (2) prefixes including at least three (3) laboratory courses in biological and/or physical science.

ELECTIVES

Students must choose enough electives to reach the minimum of 90 credits required for the AAOT.

Please note that any first-year language courses will be counted as electives.

TRANSFER INFORMATION

Oregon public universities that offer bachelor's degrees, minors, certificates or endorsements in world languages and related fields:

- Eastern Oregon University
- Oregon State University Corvallis
- Portland State University
- Southern Oregon University
- University of Oregon

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• Western Oregon University

MILITARY SCIENCE

The Military Science program, in conjunction with Oregon State University ROTC, is a strong leadership program open to all students and is designed to give students instruction and experience in the art of organizing, motivating and leading others. The program focuses on leadership, goal setting and implementation, planning and plans execution. Classroom and practical exercises are designed to challenge students in all aspects. The ROTC program provides college-trained officers for the Army, Army Reserves and Army National Guard.

The Military Science program is divided into two phases: the Basic course can be attained through coursework at Central Oregon Community College; and the Advanced course can be earned at OSU, Cascades.

The Basic course takes place during the students' first two years in college, as elective courses. Students will learn basic military skills and the fundamentals of leadership and will start the groundwork toward becoming an Army leader. Students can take Military Science Basic courses without a military commitment. Students completing the Basic course requirements and earning two years of college credit toward a four-year degree can move on to the Advanced Course.

Students can continue with the Advanced course during the students' last two years in college at OSU, Cascades, as elective courses. It includes one class and lab each semester in addition to the requisite physical training and field-training exercises, plus a summer leadership camp. Entering the Advanced course requires a commitment to serve as an officer in the U.S. Army after a student graduates. Upon graduation with a bachelor's degree from an approved four-year college, students can compete to earn a commission as an Army officer.

For more information, contact the Military Science office at 541.318.3774.

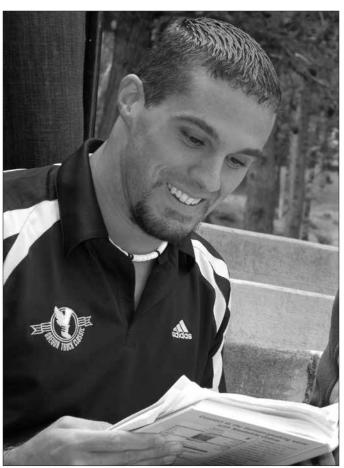
YEAR ONE

Fall term MS 111 MS 180	Leadership and Personal Development Army Physical Fitness	1
Winter term		
MS 112	Introduction to Tactical Leadership	1
MS 180	Army Physical Fitness	1
Spring term		
MS 113	Orienteering and Land Navigation	1
MS 180	Army Physical Fitness	1

YEAR TWO

Fall term		
MS 180	Army Physical Fitness	1
MS 211	Foundations for Leadership	2
Winter term		
MS 180	Army Physical Fitness	1
MS 212	Effective Team Building	2
Spring term		
MS 180	Army Physical Fitness	1
MS 213	Fundamentals of Military Operations	2
Required before	e graduation, MS 215 American Military History	3





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COURSE DESCRIPTIONS

Central Oregon Community College has a diverse selection of transfer and Career and Technical Education (CTE) courses. Prerequisites are specified in many of the course descriptions. It is the student's responsibility to meet the prerequisite conditions before enrolling in the course.

Courses are grouped alphabetically by the subject prefix and then by number. Not every course is offered every term; consult the COCC credit class schedule online (cocc.edu) for details of courses offered by term, format, location and time.

COURSE NUMBERING

Courses with subject names (e.g., MTH 111) and numbered 100-299 are designed to meet COCC certificate or degree requirements.

Courses with subject names (e.g., MTH 065) and numbered below 100 do not normally transfer to four-year institutions.

Adult continuing education courses offered through Community Learning are non-credit, non-transferrable classes. A schedule of these courses, available through Community Learning, is published prior to each term. This schedule gives city and site locations for Community Learning classes throughout the College district.

HOW TO READ A COURSE DESCRIPTION

COURSE LISTING EXPLANATION

BA 220 – BUSINESS ANALYSIS AND BUDGETING

This course is designed to develop mathematical analytical skills in performing the daily tasks of a manager or salesperson. The course has a threefold focus: strengthening understanding and use of business terminology in regards to financial information; development of spreadsheet skills in evaluating the costing, pricing and financing strategies of products and services; and development of skills in evaluating and making budgeting, financial and investment decisions. This is a hands-on, skills-oriented course. Recommended preparation: CIS 125E. Prerequisites: BA 104, CIS 131, BA 112.

Credits: 4 Lecture: 3 Other: 2

The **course number** and the **title of the course** are listed in all capital letters.

The **course description** briefly summarizes the course content.

The content in the stated course is **recommended** beforehand for student success in the selected course, but is not required for registration.

Prerequisites, (or instructor's approval) if any, are listed by course number after the course description. It is important to note prerequisites prior to registering. A prerequisite is a course that must be completed with a "C" grade or better. A **prerequisite with concurrency** is a course which must be completed prior to or while attending the selected course. A **corequisite** is a course which must be completed while attending the selected course.

The number of **credits** earned by taking the course and the number of hours per week in **lecture** and **labs** or **other**.

ALLIED HEALTH

AH 111 - MEDICAL TERMINOLOGY I

Covers terminology pertaining to medical term construction, body structure, integumentary, hematopoietic/lymph, cardiovascular, oncology, respiratory and musculoskeletal systems. Includes standard abbreviations, anatomic, diagnostic, symptomatic and operative terms related to these body systems. Students (online and face-to-face) must pass a face-to-face written final exam at 70% or higher to pass this class. The overall grade parameter to pass this class is "C" (75%) or higher.

Credits: 3 Lecture: 3

AH 112 - MEDICAL TERMINOLOGY II

The second of a two-quarter sequence that provides continuity from AH 111 in medical terminology used in the health sciences that pertain to the human body. This course studies neurologic terms and disorders; the digestive system; urogenital system; endocrine system; gynecologic and obstetric terminology; fetal and neonatal disorders and anomalies; terminology relating to psychiatry, anesthesia, pharmacology, and emergency medicine and the sense organs of sight and hearing. Students (online and face-to-face) must pass a face-to-face, written final exam at 70% or higher to pass this class. The overall grade parameter to pass this class is "C" (75%) or higher. Prerequisite: AH 111.

Credits: 3 Lecture: 3

AH 113 - INTRODUCTION TO THE STUDY OF DISEASE

Reviews abnormal pathological changes that occur within individual organs and body systems as the result of a disease process. Disease processes are studied in detail with regard to the cause, pathological features, physical signs and symptoms, diagnostic procedures, current preferred treatment, prognosis and pertinent public health issues. Fulfills program requirements for Medical Assisting. Recommended preparation: BI 122 or BI 233 should be taken prior to or concurrently with AH 113.

Credits: 5 Lecture: 5

AH 115 - CULTURAL RESPONSIVENESS IN ALLIED HEALTH

Highlights the impact of cultural differences on both the patient and the caregiver. Examines the major categories of diversity, language, heritage, biases and stereotypes and how these might impact patient care. Examines how knowledge of diversity issues can be essential to the caregiver in communication and treatment. Prerequisite: WR 121.

Credits: 3 Lecture: 3

AH 199 - SPECIAL TOPICS: ALLIED HEALTH

This course is in development. Reserved for courses that cover topics of general interest in health occupations.

Credits: 1 to 3

AH 205 - MEDICAL ETHICS

Explores the relation of traditional ethical precepts to current biomedical ethical controversies. Open to all students without prerequisites, but recommended primarily for students enrolled in, or planning to enroll in, programs in nursing or other health care professions. Recommended preparation: WR 121.

Credits: 3 Lecture: 3

AH 299 - SELECTED TOPICS: ALLIED HEALTH

This course is in development.

Credits: 1 to 4

ANTHROPOLOGY

ANTH 102 - ARCHAEOLOGY

Provides an introduction to archaeological method and theory along with a survey of human world prehistory through the rise of great civilizations. In this course we will address questions relevant to the practice of archaeology: What is archaeology? Why do archaeologists dig holes? How do archaeologists know where to dig? What is material culture? How do archaeologists analyze and understand what they find?

Topics include archaeological concepts, survey, excavation, analysis and interpretation of data, dating techniques, research methods and theories of cultural change.

Credits: 4 Lecture: 4

ANTH 103 - CULTURAL ANTHROPOLOGY

Provides an introduction to the diversity of human beliefs and behaviors around the world. Explores cross-cultural similarities and differences in systems of values, family, religion, economics, politics, and social structure, including issues of race and ethnicity. The goals of this course are to foster an appreciation of cultural diversity, to use this appreciation to better understand the student's culture(s), and to learn to be active and aware participants of local and global communities.

Credits: 4 Lecture: 4

ANTH 141 - FILM & SOCIETY: RACE, GENDER, AND CLASS

Examines the representation of race, social class and gender in film. Special attention is given to how particular representations reflect the broader historical context surrounding when the films were produced and culturally-based audience sentiments. Anthropological and sociological analyses of the films will be provided to give a multi-disciplinary account of how films reflect, create and support various ideological positions regarding race, class and gender. This course is also offered as SOC 141; students cannot use credit from both courses.

Credits: 2 Lecture: 1 Lab: 3

ANTH 142 - FILM & SOCIETY: GLOBAL CULTURES

Examines global issues in both foreign and domestic films from sociological and anthropological perspectives. Selected films cover topics that are relevant to understanding global processes such as global economy and Islam in the contemporary world, as well as films that address the more regionally localized processes of community and family. The purpose of the course is to use film to expose students to diverse perspectives and to encourage the critical awareness of the global interconnections that influence and constrain our modern lives. Films will include documentaries, as well as feature films.

Credits: 2 Lecture: 1 Lab: 3

ANTH 143 - FILM & SOCIETY: CONTEMPORARY ISSUES

Examines contemporary issues in film from sociological and anthropological perspectives. Selected films cover such topics as youth culture, nationalism, local culture and poverty, mental health or other social problems. The content of the films, as well as issues of film production, historical context and audience reception will be the major focus of analysis.

Credits: 2 Lecture: 1 Lab: 3

ANTH 188 - SPECIAL STUDIES: ANTHROPOLOGY

Explores topics of current interest in the discipline.

Credits: 1 to 3

ANTH 199 - SELECTED TOPICS: ANTHROPOLOGY

This course is in development.

Credits: 1 to 4

ANTH 202 - ARCHAEOLOGY OF OREGON

Investigates the diverse nature of Oregon archaeology. Prehistoric patterns of human occupation in five distinct regions will be analyzed: the Great Basin, Columbia Plateau, Lower Columbia and Coast, Willamette Valley and the Southwestern Mountains. Furthermore, the course will investigate how the diversity of eco-scapes within Oregon shaped the manner in which humans culturally, technologically, and spiritually adapted to their environments. Recommended preparation: WR 121 and ANTH 102.

Credits: 4 Lecture: 4

ANTH 212 - ARCHAEOLOGY FIELD METHODS

Provides an introduction to archaeological field methods as applied to the study of pre-history, including, but not limited to: field inventory, site recording, mapping, archaeological excavation and data/artifact collection, laboratory analysis and documentation/report preparation.

Credits: 4 Lecture: 2.75 Other: 22.5

ANTH 234 - BIOLOGICAL ANTHROPOLOGY

An introduction to biological anthropology. The goal of this course is to achieve the basic scientific literacy necessary to understand and think critically about contemporary human variation, bio-cultural interactions, and five million years of human evolution. It examines the biological evidence for human evolution and population variation. Lecture topics include the mechanisms of evolution, cell biology and human genetics, primate behavior, the human fossil record, and modern human variation and adaptations.

Credits: 4 Lecture: 3 Lab: 3

ANTH 235 - EVOLUTION OF HUMAN SEXUALITY

Examines the complex interplay between culture and biology in human sexual behavior with particular attention to anatomy and physiology as traits that have evolved from our primate and mammalian ancestors. Focus will be on theoretical issues in evolution and the implications of these theoretical models on human behavior. Topics include human mating systems across cultures, sexual selection, reproduction, physiological and hormonal processes, as well as the non-reproductive aspects of human sexuality and the physiological and hormonal processes of sexuality. Recommended Preparation: ANTH 234.

Credits: 4 Lecture: 4

ANTH 237 - FORENSIC ANTHROPOLOGY

This course teaches the basic analysis of human remains for the medico-legal profession, and will cover the history of the discipline, the human skeleton, determining postmortem interval, trauma evaluation, and individual identification. It will also cover the investigation of crime scenes, the role of the forensic anthropologist, and case studies from a number of various situations. Recommended preparation: ANTH 234.

Credits: 4 Lecture: 4

ANTH 240 - LANGUAGE AND CULTURE

An introduction to the relationship between communication and culture. Designed to help students become familiar with and understand the mechanics of language from brain structure to how we make sounds; cross-cultural and historical variations between and within communicative systems; and language as a form of social interaction, specifically exploring the complex and diverse relationships between language, sociocultural, politics and identity. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ANTH 250 - FOOD AND CULTURE

Provides an introduction to the diversity of food ways and the cultural significance of food and eating around the world. Topics explored will include food rules and rituals, consumption and health, food movements, food scarcity and poverty, global movement of foods, as well as the gendered dimensions of food and eating, with particular focus on body and body image. By the end of the course, students will have gained a broad-ranging familiarity with the cultural, political and economic aspects of past and present human food systems and be able to recognize and analyze the social linkages and hierarchies embedded in food systems. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ANTH 254 - MAGIC, WITCHCRAFT, RELIGION

Introduces students to the subject of religion in the broad anthropological context, contributes to a deeper awareness of diverse expressions of religious faith in a multicultural world, and promotes openness to and tolerance of world views different from the student's own. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ANTH 283 - INTRODUCTION TO MEDICAL ANTHROPOLOGY

Introduces the main theories, concepts, and methods of exploring health, illness, disease and health care systems from a medical anthropological perspective. Uses a cultural interpretive approach to explore health beliefs, healing practices, and healer's and patient's roles within the context of world health care systems. Includes an examination of the biomedical model of health care as a cultural construct created through Western belief systems. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ANTH 295 - GENDER AND SEXUALITY IN AN ANTHROPOLOGICAL PERSPECTIVE

Examines the constructions of femininities, masculinities and sexualities from a cross-cultural perspective. The cross-cultural focus will provide students with the comparative framework necessary to understand the diversity of gender roles within the context of specific cultural, political and economic processes. While exploring how both Western and non-Western cultures from diverse parts of the world imagine, negotiate, and even contest gender identities and relations, this course will also address key theoretical issues and anthropological approaches to understanding gender. Recommended preparation: WR 121, ANTH 103.

Credits: 4 Lecture: 4

ANTH 298 - INDEPENDENT STUDY: ANTHROPOLOGY

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

ANTH 299 - SELECTED TOPICS: ANTHROPOLOGY

This course is in development.

Credits: 1 to 4

APPRENTICESHIP

APR 101 - ELEC/MFG PLANT 1 - BASIC ELECTRIC THEORY

Students will be introduced to content in trade math, fundamental concepts of electricity, resistance, Ohm's law, series circuits, parallel circuits, grounding, grounding electrode systems, and the National Electrical Code. This course will be taught in a lecture/lab format with hands-on use of meters, power supplies, relays and switches.

Credits: 4 Other: 8.4

APR 102 - ELEC/MFG PLANT 2 - BASIC WIRING

This course includes principles of inductance, capacitance, transformer fundamentals, generator fundamentals, electric motors, enclosure grounding, and the National Electrical Code as it applies to these topics. This course will be taught in a lecture/lab format, with labs demonstrating the electrical functions of the various elements.

Credits: 4 Other: 8.4

APR 103 - ELEC/MFG PLANT 3 - INDUSTRIAL WIRING

Students will be introduced to commercial building plans and specs, reading drawings, branch and feeder circuits, appliance circuits, lighting circuits, panel boards, protection circuits, cooling systems, and the National Electrical Code as it applies to these topics. This course will be taught in a lecture/lab format, with a field trip to either a hospital, a newspaper publishing facility or a mill.

Credits: 4 Other: 8.4

APR 104 - ELEC/MFG PLANT 4 - COMMERCIAL WIRING

Course content includes industrial plans and site work, substations, panel boards and feeders, wire tables, determining conductor size, motors, controllers, ventilating, system protection, site lighting hazards, programmable logic controllers, and the National Electric Code as it applies to these topics. This course will be taught in a lecture/lab format, with labs to include hands-on PLC programming and ladder logic development.

Credits: 4 Other: 8.4

APR 111M - METERING BASICS

This course is an introduction to electrical trade theory for Meterman Apprentices and will review math concepts including percentages, scientific notation, metric prefixes, ratios, proportions, and equations. Apprentices will also be introduced to electrical topics such as current, voltage, resistance, Ohm's Law, power, DC series, and parallel circuits. Lastly students will learn about single phase metering, Blondel's Theorem, metering vocabulary, single phase transformers, and working safely within the electric field.

Credits: 4 Other: 8.4

APR 118M - TRANSFORMER CONNECTIONS

This course is designed to instruct Meterperson Apprentices on the fundamentals of transformer bank connections: delta-delta, wye-wye, wye-delta, and single-phase regulators. Apprentices will also learn about conditions that can cause back feed, while continuing to learn about single phase metering.

Credits: 4 Other: 8

APR 121 - BOILER OPERATOR 1 - STATIONARY ENGINE PRINCIPLES

The course will cover stationary engineering principles, boiler types and accessories, and trade math.

Credits: 4 Other: 8.4

APR 121M - METERING FUNDAMENTALS I

This course is designed to instruct second year Meterperson Apprentices on the fundamentals of AC theory. This includes: DC review, trigonometry review, RC, RL, TLC circuits, series and parallel resonance. Apprentices also learn about self-contained three phase metering and refining what they have already learned about single phase metering.

Credits: 4 Other: 8

APR 122 - BOILER OPERATOR 2 - BOILER ACCESSORIES

The course content will cover boiler accessories, fuel burning equipment, combustion and draft controls.

Credits: 4 Other: 8.4

APR 122M - METERING FUNDAMENTALS II

This course is designed to instruct second year Meterperson Apprentices on the graphic representation of system parameters (i.e. currents & voltages) and various transformer line-ups that create those parameters. Apprentices learn how to apply mathematical and vectoral approaches for deriving the values of Real, Apparent and Reactive Power in a electrical service. Additionally they learn about instrument rated three phase metering and refining what they have already learned about self-contained three phase metering.

Credits: 4 Other: 8

APR 141 - SHEET METAL CORE CURRICULUM

This course is an introduction to construction and maintenance skills used in various crafts. Basic concepts in safety, math, tools, blueprints and rigging are examined this first term. In addition, employment opportunities will be explored through various apprenticeship trades.

Credits: 4 Other: 8

APR 142 - SHEET METAL I

This course presents related training material consistent with the minimum skill requirements of the sheet metal trade. The content includes elements of trade specific tools and fundamentals of duct layout and safety as it relates to the sheet metal trade.

Credits: 4 Other: 8

APR 143 - BASIC LAYOUT

Introduction to trade, terminology, trade math, tools, shop safety, shop equipment, basic layout of duct work and fittings.

Credits: 4 Other: 8

APR 144 - SHEET METAL MATH

Covers fractions and decimals, geometric shapes, equation solutions, ratios and proportions, perimeters, areas, and volumes of geometric shapes, powers and use of the scientific calculator. Emphasis is on applications to applied sheet metal fabricators. There will be lab time in the class to work on assignments.

Credits: 4 Other: 8

APR 145 - BLUEPRINT READING

Introduction to blueprint reading, drafting blueprints, scaling existing buildings and drafting mechanical systems.

Credits: 4 Other: 8

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APR 146 - ARCHITECTURAL SHEET METAL

The study of architectural sheet metal in the context of today's industry. The course of study includes the following: discovery of various types

of materials, study profiles of roofing panels, water conductors, various types of roof flashings, related trades that are integral with this trade, the philosophy of layout in the field, and the application of actual installations, safety equipment and practices applicable to the trade.

Credits: 4 Other: 8

APR 201 - ELEC/MFG PLANT 5 - MOTOR CONTROLS

Course of study includes reversing circuits applied to motors, power distribution systems, transformers, electronic control devices, relays, photoelectric and proximity controls, programmable controllers, starters, preventive maintenance, and the National Electric Code as it applies to these topics. This course is taught in a lecture/lab format, with labs covering wiring and operation of listed equipment to control a small motor.

Credits: 4 Other: 8.4

APR 202 - ELEC/MFG PLANT 6 - MOTOR CONTROLS/CIRCUITS

Course of study includes reversing circuits applied to motors, power distribution systems, transformers, electronic control devices, relays, photoelectric and proximity controls, programmable controllers, starters, preventive maintenance, and the National Electric Code as it applies to these topics. This course will be taught in a lecture/lab format, with the lab portion including the demonstration of and hands on programming of variable speed drives.

Credits: 4 Other: 8.4

APR 203 - ELEC/MFG PLANT 7 - MOTOR APPLICATIONS

Topics include safety, commercial and residential calculations, wiring methods, related theory and the National Electric Code as it applies to these topics. This course will be taught in a lecture/lab format. Lab will include field trip to a commercial building with walk-through of service equipment and heating/cooling equipment.

Credits: 4 Other: 8.4

APR 204 - ELEC/MFG PLANT 8 - NEC CODE

Topics include theory and application of motor controls, solid state fundamentals, special termination, layout, hazardous locations and transformer locations, operation and maintenance of high voltage switchgear and starters, and a thorough review of the National Electric Code. This course will be taught in a lecture/lab format, with students having the opportunity to take practice guizzes and practice code exams.

Credits: 4 Other: 8.4

APR 221 - BOILER OPERATOR 3 - BOILER OPERATION

The course content will include boiler operation, maintenance, water treatment and boiler room safety.

Credits: 4 Other: 8.4

APR 222 - BOILER OPERATOR 4 - STEAM USAGE

The course content includes steam usage and management, basic electricity principles and basic knowledge of steam turbines.

Credits: 4 Other: 8.4

APR 223 - TURBINE OPERATOR 1 - APPLIED MECHANICS

The course content will include mathematics, mensuration, applied mechanics, thermodynamics, steam and internal combustion engines, steam and gas turbines, refrigeration, air compression and lubrication.

Credits: 4 Other: 8.4

APR 224 - TURBINE OPERATOR 2 - INSTRUMENTATION

The course content will include basic electricity, electronics and control instrumentation, fluid mechanics, pumps, power plant piping systems, air compressors and different types of power plants.

Credits: 4 Other: 8.4

APR 225 - TURBINE OPERATOR 3 - THERMODYNAMICS

The course content will include internal combustion engines, lubrication, thermodynamics, heat engines, steam engines, and steam and gas turbines. Credits: 4 Other: 8.4

APR 226 - TURBINE OPERATOR 4 - ELECTRICAL THEORY

The course content will include electrical theory, AC and DC electrical machines, transformers and rectifiers, steam turbine theory, construction of steam turbines, and steam turbine and condenser operation and maintenance. Credits: 4 Other: 8.4

APR 231M - METERING ADVANCED I

This course is designed to instruct third-year apprentices on the subject of advanced metering, including the following: history of metering (past, present and future), review of meter vectoring, polyphase vectoring, self-contained meters, instrument rated meters, instrument transformers (Current and Voltage) and their application. While learning about Primary metering and refining what they have already learned about instrument rated three phase metering.

Credits: 4 Other: 8

APR 232M - METERING ADVANCED II

This course is designed to instruct third-year Meterperson Apprentices on the subject of advanced fundamentals of metering including: billing rates, demand metering, Kilovolt-Ampere-Reactance (KVAR) and Kilovolt Ampere (KVA) metering, special metering, net metering and pulse metering (pulse weights, pulse initiation, and totalization). Additionally apprentices will learn about different types of meter test equipment, AMI/AMR, Telemetry and Smart grid.

Credits: 4 Other: 8

APR 241 - BUILDING CODES AND INSTALLATION MANUALS

This course is an overview of the mechanical codes as related to the HVAC industry in commercial and residential applications. In addition, installation manuals will be explored as to proper installation and usage of HVAC equipment. During the term there will be three field trips to visit job sites where students will identify code applications and violations.

Credits: 4 Other: 8

APR 242 - DUCT FABRICATION/DESIGN

Introduction to duct design, different styles of duct design, and multilevel duct system design. Heat loss, heat gain calculations and instruction on use of duct calculators.

Credits: 4 Other: 8

APR 243 - GENERAL FABRICATION

This course is the study of the sheet metal trade as it is applied to general-needs metal work. The work studied is that outside of the traditional HVAC and architectural scope as studied in previous terms with a broader base of skills to be learned, such as custom, decorative and artistic finished products.

Credits: 4 Other: 8

APR 244 - PROJECT SUPERVISION

Introduction to construction management skills as they apply to project supervision.

Credits: 4 Other: 8

ART

ART 101 - INTRODUCTION TO THE VISUAL ARTS

Introduces approaches to the understanding and appreciation of the visual arts. Provides a foundation in the basic concepts, vocabulary of the elements and principles of design as well as materials, methods and processes. A wide variety of artworks are explored. May include some hands-on experience with various mediums.

Credits: 4 Lecture: 4

ART 110 - INTRODUCTION TO GRAPHIC DESIGN

Students will use standard graphic design applications such as Adobe Illustrator and Photoshop for drawing and page layout purposes for art, design and the web.

Credits: 3 Other: 6

ART 115 - BASIC DESIGN: 2-D

Introduction to theory and studio practice using the elements of line, value, shape and texture with the principles of organization to articulate visual ideas in black and white.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 116 - BASIC DESIGN: COLOR

Introduction to color theory and studio practice using value, hue and intensity with the elements of line, shape, texture and the principles of organization to articulate visual ideas with two-dimensional color design problems.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 117 - BASIC DESIGN: 3-D

Explores elements and principles of design through hands-on experience to make three-dimensional constructions from inexpensive materials. A foundation course for students interested in ceramics, sculpture and other three-dimensional design fields.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 121 - CERAMICS: INTRODUCTORY HAND BUILDING

Introduces basic hand building skills, simple glaze application and an understanding of fundamental ceramic processes, for students with little or no experience. Includes presentation of historical, cultural and contemporary trends in ceramics. Students should plan on at least one term of this course and one term of Introductory Wheel Throwing before advancing to Intermediate Ceramics and beyond. May be repeated up to 9 credits. Recommended preparation: ART 117 and ART 131.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 122 - CERAMICS: INTRODUCTORY WHEEL THROWING

Introduces basic wheel throwing skills, simple glaze application and an understanding of fundamental ceramic processes, for students with little or no experience. Includes presentation of historical, cultural and contemporary trends in ceramics. Students should plan on at least one term of this course and one term of Introductory Hand Building before advancing to Intermediate Ceramics and beyond. May be repeated up to 9 credits. Recommended preparation: ART 117, ART 131.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 131 - DRAWING I

Emphasis on observing and developing fundamental drawing and composition skills. Still life material used extensively. Recommended preparation: ART 115.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 132 - DRAWING II

Concepts and skills developed in ART 131 will be applied to introduction to drawing the figure and portraits. Recommended preparation: ART 131.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 133 - DRAWING III

Emphasis on landscape drawing and creative expression working with a broader range of media. Recommended preparation: ART 131.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 157 - METALCRAFT I

Basic skills necessary to work nonferrous metals plus hot and cold fabrication, forging, texturing and cabochon stone-setting are included in the metalwork sequence. Projects can be jewelry, hollowware or small sculpture. Development of imaginative ideas and personal aesthetic direction is expected. Experimentation and invention is encouraged. Should be taken in sequence. Recommended preparation: MTH 060. Not offered every term.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 157A1 - METALWORK & JEWELRY - HOT FABRICATION I

Introduction to the basic skills used to fabricate non-ferrous metals including silver, copper and copper alloys to make jewelry or other small metal objects. Projects will be joined using high temperature silver solder and natural gas/compressed air torches as the heat source. Additional instruction includes developing designs, annealing, drilling, sawing, filing, texturing, dapping and finishing techniques. Not offered every term.

Credits: 2 Lecture: 1 Lab: 3

ART 157A2 - METALWORK & JEWELRY - HOT FABRICATION II

Builds the skills learned in ART 157A1. Students will develop soldering skill by designing more complex and dimensional projects. Bezel setting a

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cabochon stone, making hinges, and more complex forming techniques and texturing methods will also be included. Recommended preparation: ART 157A1. Not offered every term.

Credits: 2 Lecture: 1 Lab: 3

ART 157B1 - METALWORK & JEWELRY - COLD FABRICATION I

Introduction to the basic skills used to fabricate non-ferrous metals including silver, copper and copper alloys to make jewelry or other small metal objects. Projects will be joined using rivets, tabs, links and other methods of cold connections. Additional instruction includes developing design, annealing, drilling, sawing, filing, texturing, dapping and finishing techniques. Not offered every term.

Credits: 2 Lecture: 1 Lab: 3

ART 157B2 - METALWORK & JEWELRY - COLD FABRICATION II

Builds the skills learned in ART 157B1 with more challenging project assignments. Students will develop technical skills by designing projects, which include simple forming techniques, moving parts, incorporating found objects and/or stone settings. Recommended preparation: ART 157B1.

Credits: 2 Lecture: 1 Lab: 3

ART 157C1 - JEWELRY - PRECIOUS METAL CLAY I

An introduction to working with Precious Metal Clay (PMC) to make fine silver jewelry. The course will include designing projects, making a texture stamp, manipulation and joining techniques for both soft and unfired PMC, kiln firing and finishing techniques. Not offered every term.

Credits: 1 Other: 2

ART 158B1 - JEWELRY - CASTING & CHAIN MAKING I

An introduction to centrifugal lost wax casting process. Additive and subtractive methods will be used to sculpt small-scale wax models, which will be sprued, invested and cast. Fusing links to weave simple chains and finishing techniques will be included. Not offered every term.

Credits: 2 Lecture: 1 Lab: 3

ART 158B2 - JEWELRY - CASTING & CHAIN MAKING II

Builds on the skills learned in ART 158B1. It will include centrifugal, vacuum, cuttlebone casting and sand casting. The use of molds to duplicate textures to transfer onto wax, creating stone settings in wax, controlling the wax burn-out and weaving complex linked chains will be included. Recommended preparation: ART 158B1, ART 157A1. Not offered every term.

Credits: 2 Lecture: 1 Lab: 3

ART 158C1 - JEWELRY - ENAMELING I

Basic introduction to enameling on copper and fine silver. Techniques for texturing, using stencils, sifting and wet-packing enamel, adding foils, kiln firing, cold connecting and finishing techniques will be included. Not offered every term.

Credits: 1 Other: 2

ART 158C2 - JEWELRY - ENAMELING II

Builds on the skills learned in ART 158C1. Techniques of champleve, cloisonne, image transfer and fusing the enamel with a torch will be included. Recommended preparation: ART 158C1, ART 157A1. Not offered every term.

Credits: 1 Other: 2

ART 159A1 - METALWORK & JEWELRY - FORMING I

Students will make non-ferrous metal projects which include a third dimension. The projects can be fabricated jewelry, containers, or small-scale sculpture made using folding, scoring, chasing and repousse, or other metalworking techniques used to form sheet metal. Projects may include the use of hot and/or cold connections and non-metal materials. Recommended preparation: ART 157A1. Not offered every term.

Credits: 2 Lecture: 1 Lab: 3

ART 159A2 - METALWORK & JEWELRY - FORMING II

Builds on the skills learned in ART 159A1. The projects can be fabricated from sheet metal using angle raising, shell forming, hydraulic-press forming and electro-forming. Projects may include the use of hot and/or

cold connections and non-metal materials. Recommended preparation: ART 157A1 and ART 159A1. Not offered every term.

Credits: 2 Lecture: 1 Lab: 3

ART 159B2 - METALWORK & JEWELRY - ETCHING & HYDRAULIC PRESS II

Builds on the skills learned in ART 159B1. Etching resists will include markers, oil paint and asphaltum varnish as resists for copper. Nonconforming carved acrylic and liquid steel conforming dies will be made to form the etched metal using the hydraulic press. Recommended preparation: ART 159B1 and either ART 157A1 or ART 157B1. Not offered every term.

Credits: 2 Lecture: 1 Lab: 3

ART 159C1 - JEWELRY - PRECIOUS METAL CLAY & ENAMELING I

Focuses on improving designs for fine silver precious metal clay. The fired projects will be enhanced with enamel to add color and then fired again to fuse the enamel. Recommended preparation: ART 157C1. Not offered every term

Credits: 2 Lecture: 1 Lab: 3

ART 159C2 - JEWELRY - PRECIOUS METAL CLAY & ENAMELING II

Focuses on designing projects to create recesses in the precious metal clay. After firing the PMC, enamel is placed in the depressions. The project is fired again to fuse the enamel. Cold connections and adding gold will also be covered. Recommended preparation: ART 159C1. Not offered every term.

Credits: 2 Lecture: 1 Lab: 3

ART 161 - PHOTOGRAPHY I

Introduction to traditional black and white film photography including camera operation, composition, film processing, printing and presentation. Emphasis is on creative problem solving and understanding the basic photographic concepts used to create good visual communication. Weekly photo assignments will require shooting outside of class, as will text readings. In-class critiques of work are a major part of this course. Recommended preparation: ART 115.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 162 - PHOTOGRAPHY II

Introduction to black and white fine printing in the traditional wet darkroom. Course includes a basic overview of the Zone System, with the goal of "pre-visualizing" a scene as a finished photograph being an expected outcome. Students work with fiber-base printing paper, print bleaching, toning, archival print finishing and other advanced techniques to create an expressive print statement. Creative problem solving and development of personal vision are a course emphasis. Weekly shooting and printing assignments, class critiques and a final project are part of the course. Recommended preparation: ART 161.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 163 - PHOTOGRAPHY III

An exploration of alternative darkroom processes including hand coloring, multiple image printing, selective/multiple toning, "solarization" (Sabattier effect), negative prints and more. A course goal is to use a "post-visualization" approach, allowing students to evolve visual communication beyond what was initially conceived in the field. Creative problem solving and development of personal vision are emphasized. Weekly printing assignments, class critiques and a final project are part of the course. Recommended preparation: ART 161.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 181 - PAINTING I

Introduction to materials and techniques using alkyd oil, acrylic and/or water-soluble oil paints, building canvas supports, stretching canvas and preparing painting grounds. Studio experience using still life, self-portrait, landscape and the figure. Recommended preparation: ART 115, ART 131 or instructor approval.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 182 - PAINTING II

Introduction to color theory and personal expression. Studio experience using still life, portrait, figure and landscape. Application of compositional principles using the grid, sequential imagery and continuous field. Recommended preparation: ART 131, ART 181 or instructor approval.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 183 - PAINTING III

Exploration of personal iconography. Studio experience using still life, landscape, figure in context, abstract spatial and abstract geometric. Recommended preparation: ART 131, ART 182 or instructor approval.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 184 - WATERCOLOR I

Studio exploration of the unique qualities of watercolor as a painting medium. Emphasis on fundamental skills, color and composition while painting from a variety of subjects. Should be taken in sequence.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 185 - WATERCOLOR II

Studio exploration of the unique qualities of watercolor as a painting medium. Emphasis on fundamental skills, color and composition while painting from a variety of subjects. Should be taken in sequence. Recommended preparation: ART 131, ART 184 or instructor approval.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 186 - WATERCOLOR III

Studio exploration of the unique qualities of watercolor as a painting medium. Emphasis on fundamental skills, color and composition while painting from a variety of subjects. Should be taken in sequence. Recommended preparation: ART 131, ART 185 or instructor approval.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 188 - SPECIAL STUDIES: ART

Explores topics of current interest in the discipline.

Credits: 1 to 3

ART 190 - FIGURATIVE CLAY SCULPTURE

Introduction to modeling the human form in clay from clothed and unclothed models using traditional additive and subtractive processes. Historical treatments of the figure and contemporary approaches will be referenced. Not offered every term. Recommended preparation: ART 131, ART 154.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 191 - SCULPTURE

Studio introduction to articulation of visual ideas in three dimensions using additive, subtractive and construction processes. Recommended preparation: ART 117.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 197 - ART PORTFOLIO CREATION

Prepares students for the business and professional art world. Students will create both digital and hard-copy portfolios while learning about public relations, marketing, promoting, business guidelines, time management, contracts, presentations, goal setting, long-term inspiration and commitment to their craft, as well as exhibition hanging, timelines and reception set-ups. Students will review art school requirements and learn how to fill out applications for art schools, residencies, grants and art scholarships. This course also includes practical experience in art exhibitions in the Pence Gallery at Pinckney Center.

Credits: 2 Lecture: 2

ART 199 - SELECTED TOPICS: ART

This course is in development.

Credits: 1 to 3

ART 231 - DRAWING IV

Application of drawing skills with increased emphasis on individual direction and creative expression. Should be taken in sequence. Recommended prerequisites: ART 131, ART 132, ART 133.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 232 - DRAWING V

Application of drawing skills with increased emphasis on individual direction and creative expression. Should be taken in sequence. Recommended prerequisite: ART 231.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 233 - DRAWING VI

Application of drawing skills with increased emphasis on individual direction and creative expression. Should be taken in sequence. Recommended prerequisite: ART 232.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 234 - FIGURE DRAWING I

Studio introduction to drawing the clothed and unclothed figure using a variety of techniques and media. Recommended preparation: ART 131 or instructor approval.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 235 - FIGURE DRAWING II

Studio introduction to drawing the clothed and unclothed figure using a variety of techniques and media. Recommended preparation: ART 234 or instructor approval.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 236 - FIGURE DRAWING III

Studio introduction to drawing the clothed and unclothed figure using a variety of techniques and media. Recommended preparation: ART 235 or instructor approval.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 252 - CERAMICS: INTERMEDIATE WHEEL THROWING

Enhances ceramic wheel throwing skills, with an emphasis on complex functional forms, as well as the understanding of glaze formulation, testing and kiln firing. Includes presentation of historical, cultural and contemporary trends in ceramics. May be repeated up to 9 credits. Recommended preparation: ART 121, ART 122. Not offered every term.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 253 - CERAMICS: INTERMEDIATE CERAMICS

Enhances ceramic hand building and wheel throwing skills. Continued focus on complex thrown and hand built forms with attention to design elements, as well as the understanding of glaze formulation, testing and kiln firing. Includes presentation of historical, cultural and contemporary trends in ceramics. Independent development of a unique body of work, for presentation/exhibition, is expected. May be repeated up to 9 credits. Recommended preparation: ART 121, ART 122.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 257 - METALCRAFT IV

Skills to work nonferrous metals such as hydraulic press, enameling, granulation, reticulation, electro-forming, fold forming, chasing and repousse, angle-raising and fabricated hollowware are included. Projects can be jewelry, hollowware or small sculpture. Development of imaginative ideas and personal aesthetic direction is expected. Experimentation and invention are encouraged. Recommended prerequisites: ART 159, ART 117.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 258 - METALCRAFT V

Skills to work nonferrous metals such as hydraulic press, enameling, granulation, reticulation, electro-forming, fold forming, chasing and repousse, angle-raising and fabricated hollowware are included. Projects can be jewelry, hollowware or small sculpture. Development of imaginative ideas and personal aesthetic direction is expected. Experimentation and invention are encouraged. Recommended prerequisites: ART 257, ART 117.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 259 - METALCRAFT VI

Skills to work nonferrous metals such as hydraulic press, enameling, granulation, reticulation, electro-forming, fold forming, chasing and repousse, angle-raising and fabricated hollowware are included.

Projects can be jewelry, hollowware and small sculpture. Development of imaginative ideas and personal aesthetic direction is expected. Experimentation and invention is encouraged. Should be taken in sequence. Recommended prerequisites: ART 117, ART 158.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 261 - DARKROOM PHOTOGRAPHY

This course is an application of darkroom photography. Students must have prior knowledge of traditional black and white film photography including: camera operation, film processing and darkroom printing. Emphasis is on creative problem solving and understanding the photographic concepts used to create good visual communication. Requirements include outside-of-class shooting, and independent in-lab processing and printing. In-class photo critiques of work and a hanging of work are a major part of this course. Recommended preparation:

Credits: 3 Lecture: 2 Lab: 3

ART 265 - DIGITAL PHOTOGRAPHY

Introduces students to the basics of composition and camera settings and provides an understanding of digital photo-editing for the purpose of creating successful landscape, portrait, montage and other photographic forms. Students must own a digital camera.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 266 - RAKU - SPECIAL TOPICS

Short course focusing on the raku firing process. Recommended preparation: ART 154. Usually offered Fall and Spring terms.

Credits: 2 Lecture: 1 Lab: 3

ART 267 - DIGITAL PHOTOGRAPHY II

This course is an intermediate continuation of digital photography including: the zone system technique for image exposure, advanced photo-editing techniques, lighting concepts and presentation. Emphasis is on creative problem solving and mastering the basic photographic concepts used to create good visual communication. Requirements include outside-of-class shooting, as well as readings. In-class photo labs and critiques of work are a major part of this course. Recommended preparation: ART 265.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 270 - PRINTMAKING

Students will practice printmaking, including relief, intaglio process on an individual project basis. Processes and materials are presented for students to complete four to five hand-pulled prints. All projects serve as an introduction to various printmaking methods and reproduction printing techniques. Recommended preparation: ART 131.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 281 - PAINTING IV

Introduction to materials and techniques using alkyd oil, oil and/or water-soluble oil paints and mediums. Studio emphasis on exploration, self-expression and nontraditional supports. Recommended preparation: ART 131 and ART 183 or instructor approval.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 282 - PAINTING V

Emphasis on individual exploration of color, visual concepts, critical doubling, the diptych and scale. Recommended preparation: ART 131, ART 281 or instructor approval.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 283 - PAINTING VI

Emphasis on independent projects, the triptych, exploration of contemporary problems in painting, statement of a thesis, painting the proposition through a series of interrelated works and the professional documentation and exhibition of the paintings. Recommended preparation: ART 131, ART 282 or instructor approval.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 284 - WATERCOLOR IV

Studio exploration of the unique qualities of watercolor as a painting medium. Emphasis on fundamental skills, color and composition while

painting from a variety of subjects. Should be taken in sequence. Recommended prerequisites: ART 131, ART 186 or instructor approval.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 285 - WATERCOLOR V

Studio exploration of the unique qualities of watercolor as a painting medium. Emphasis on fundamental skills, color and composition while painting from a variety of subjects. Should be taken in sequence.

Recommended prerequisites: ART 131, ART 284 or instructor approval.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 286 - WATERCOLOR VI

Studio exploration of the unique qualities of watercolor as a painting medium. Emphasis on fundamental skills, color and composition while painting from a variety of subjects. Should be taken in sequence. Recommended prerequisites: ART 131, ART 285 or instructor approval.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 291 - MOLD MAKING FOR CERAMICS AND SCULPTURE

Intermediate studio course with emphasis on developing skills and technical knowledge in mold making processes. Topics covered include plaster molds for ceramic slip casting, block molds, two part and complex molds. Lecture and research topics encompass mold making and casting in art and industry, historical uses of mold making and contemporary materials/processes. Recommended preparation: ART 191 and/or ART 121.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 292 - SITE SPECIFIC SCULPTURE

Acquaints students with the possibilities of using non-traditional means such as site, time, and interactivity to communicate ideas. Through a process of research and collaboration, students create interactive sculptural artworks on site. Culminates with a public exhibition of individual and group projects. Recommended preparation: ART 117 and/or ART 191.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 293 - OUTDOOR AND PUBLIC SCULPTURE

Explores the meaning and varieties of art created in and for public spaces, especially concentrating on work that contains environmental and social themes. Each student will generate several proposals, informed by research and readings, then create a work of public art as the primary goal. Recommended preparation: ART 117 and/or ART 191.

Credits: 3 Lecture: 1.5 Lab: 4.5

ART 298 - INDEPENDENT STUDY: ART

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required. Credits: 1 to 4

ART 299 - SELECTED TOPICS: ART

This course is in development.

Credits: 1 to 3

ART HISTORY

ARH 188 - SPECIAL STUDIES: ART HISTORY

Explores topics of current interest in the discipline.

Credits: 1 to 4

ARH 199 - SELECTED TOPICS: ART HISTORY

This course is in development.

Credits: 1 to 4

ARH 201 - ART HISTORY: WESTERN: PREHISTORY TO EARLY BYZANTINE

Surveys the major periods of visual arts in the West. Introduces students to the concepts of art and surveys the development of art in historical context from Prehistory through the early Byzantine Empire. Emphasizes selected works of painting, sculpture, architecture and other arts studied

in relation to the cultures producing them. Recommended preparation: WR 065 or higher.

Credits: 4 Lecture: 4

ARH 202 - ART HISTORY: WESTERN: EARLY MEDIEVAL TO LATE RENAISSANCE

Surveys the major periods of visual arts in the West. Introduces students to the concepts of art and surveys the development of art in historical context from the Early Middle Ages through the Late Renaissance. Emphasizes selected works of painting, sculpture, architecture, and other arts studied in relation to the cultures producing them. Recommended preparation: WR 065.

Credits: 4 Lecture: 4

ARH 203 - ART HISTORY: WESTERN: EARLY BAROQUE TO LATE 20TH CENTURY

Surveys the major periods of visual arts in the West. Introduces students to the concepts of art and surveys the development of art in historical context from the Baroque Age through the 20th Century. Emphasizes selected works of painting, sculpture, architecture and other arts studied in relation to the cultures producing them. Recommended preparation: WR 065.

Credits: 4 Lecture: 4

ARH 206 - MODERN ART HISTORY

A specialized chronological survey of Modernism in the visual arts from the mid-19th Century to the present day. Explores the many eclectic developments in Modern art from its beginnings through the Postmodern contemporary era. Emphasizes major artists, movements and critical concepts in modern art and theory, and relates those concepts to the art of the past as well as issues facing artists and society today.

Credits: 4 Lecture: 4

ARH 207 - NATIVE AMERICAN ART HISTORY

Survey of the arts indigenous to Mesoamerican and North American Indian cultures emphasizing architecture, pottery, painting and the fiber arts. Usually offered Spring term.

Credits: 4 Lecture: 4

ARH 208 - ART HISTORY: NON-WESTERN

A specialized survey of the art of Non-Western cultures around the world, from the Prehistoric past through the present day. This course will examine the artistic and cultural traditions of Islam, India, East Asia, the Pacific Islands, Sub-Saharan Africa and the Americas. The course will focus on understanding select works of art and architecture within their original cultural, religious and historical contexts, and will contrast various Non-Western artistic philosophies and values with those of the Western world. Recommended preparation: WR 065

Credits: 4 Lecture: 4

ARH 298 - INDEPENDENT STUDY: ART HISTORY

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required. Credits: 1 to 4

AUTOMOTIVE

AUT 101 - BASIC ELECTRICITY FOR AUTOMOTIVE

Provides understanding of fundamental principles of electricity. Covers basic electrical quantities, Ohm's law, power, series, and parallel circuits, magnetism, electromagnetism and an introduction to DC-current troubleshooting. Introduces student to the use of a digital multimeter and oscilloscope. Student will also be introduced to electrical schematics. A self-paced course. Recommended preparation or to be taken with: AUT 106 and MTH 010 or higher.

Credits: 2 Lab: 6

AUT 102 - AUTOMOTIVE ELECTRIC I

Covers automotive electrical skills. Introduces the testing, disassembly, and rebuilding of various electrical equipment. Troubleshooting and using various test equipment common to the automotive trade will be stressed. Introduces the use of automotive scan tools for basic diagnostics. Introduces the use of intrusive and non-intrusive testing methods. Prerequisites: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110 with a grade of "C" or better (or "P").

Credits: 5 Lecture: 2.5 Lab: 7.5

AUT 103 - AUTOMOTIVE ELECTRIC II

Studies disassembly, testing and rebuilding of various electrical equipment. Stresses troubleshooting and using various test equipment common to the automotive trade. Recommended preparation: AUT 101, AUT 102, AUT 106, AUT 107, AUT 109, AUT 110.

Credits: 2 Lecture: 1 Lab: 3

AUT 104 - AUTOMOTIVE ELECTRIC III

A hands-on study and familiarization of repair procedures for air bag, security entry and cruise control systems. Learn diagnostic and repair procedures using body control modules. Learn diagnostics and repair procedures for hybrid and new electrical systems. Recommended preparation: AUT 101, AUT 102, AUT 103, AUT 106, AUT 107, AUT 109, AUT 110.

Credits: 2 Lecture: 1 Lab: 3

AUT 105 - DIESEL PERFORMANCE I

Introduces principles of diesel systems and basic diagnosis. Includes engine analysis, cooling and exhaust systems, fuel management systems and diesel engines. Recommended preparation: AUT 101, AUT 102, AUT 106. AUT 107. AUT 109. AUT 110.

Credits: 2 Lecture: 1 Lab: 3

AUT 106 - AUTOMOTIVE PROGRAM ORIENTATION

Introduction to the Automotive program. Provides an understanding of the fundamental principles of automotive shop safety and tool care. Instruction given to the self-paced course program. This course is required prior to taking any automotive course. This is a three-day, intensive course that is only taught at the beginning of each term. There will be a required weekly meeting for all enrolled students - announced time during the orientation.

Credits: 1 Lecture: 1

AUT 107 - MECHANICAL SYSTEMS I

Provides an understanding of the fundamental principles of automotive shop safety and tool care. Develops mechanical knowledge and skills utilized throughout a career in the automotive field. Includes techniques of routine vehicle maintenance. Includes customer vehicle identification and handling, new vehicle pre-delivery inspection and preparation, safety inspection, lubrication tasks and light line tasks. A self-paced course. Recommended preparation or to be taken with: AUT 106.

Credits: 3 Lab: 9

AUT 109 - MECHANICAL SYSTEMS II

This course will provide a good understanding of the fundamental principles of hand tool names and usage through catalog identification, scan tool introduction and function, based on the Snap-On SolusPro menu and Parameter Identification. Application and resume writing is included to prepare the new student for a job interview in the automotive industry. A self-paced course. Recommended preparation: AUT 106. Corequisites: AUT 101, AUT 106, AUT 110.

Credits: 1 Lab: 3

AUT 110 - SMALL GAS ENGINES

Designed to study and apply the theory, operation, diagnoses and repair of small gas engines and their use in the world today. A self-paced course. Recommended preparation or to be taken with: AUT 106.

Credits: 3 Lab: 9

AUT 111 - COMPUTERIZED ENGINE CONTROLS

Studies advanced electrical systems found on late-model vehicles. Provides solid understanding of computerized automotive engine control

systems and how they operate and the ability to diagnose, troubleshoot and repair computerized engine control systems. Recommended preparation: AUT 101, AUT 102, AUT 103, AUT 106, AUT 107, AUT 109, AUT 110, AUT 205, MTH 020.

Credits: 5 Lecture: 3.5 Lab: 4.5

AUT 112 - BASIC ENGINE PERFORMANCE I

This course is designed to study and apply the theory, operation, diagnoses and repair of the points-type ignition and carburetion systems as they were used in vehicles of the past. Recommended preparation: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110.

Credits: 1 Lab: 2

AUT 113 - BASIC ENGINE PERFORMANCE II

Course is designed to continue the study and apply the theory presented in AUT 112 Basic Engine Performance I. This course will continue with the operation, diagnoses and repair of the carburetion system as it was used in vehicles of the past.

Credits: 1 Other: 2

AUT 114 - WELDING FOR THE AUTOMOTIVE TRADE

Provides a basic understanding of the fundamental principles of automotive fabrication, including safety topics. Topics introduce students to focused areas that are required when replacing vehicle components that include a light level of fabrication. (A scheduled self-paced course.) Prerequisites: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110. Instructor approval required.

Credits: 3 Lab: 9

AUT 199 - SELECTED TOPICS: AUTOMOTIVE

This course is in development.

Credits: 1 to 4

AUT 201 - AUTOMOTIVE ENGINES

Provides information on the construction, operation and design of the internal combustion engine. Teaches the concepts and procedures of engine work to cover the proper procedure in rebuilding a four-cycle internal combustion engine. Includes a combination of guided lecture and laboratory applications, stressing safety, accuracy of measure, proper usage of tools and application of repair manuals through actual overhaul of engines. Recommended preparation: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110, MTH 010 or higher.

Credits: 4 Lecture: 2 Lab: 6

AUT 202 - MANUAL DRIVE TRAINS I

A self-paced course that studies standard transmissions and transaxles. Students will learn on college-owned components. The students will learn operating principles, diagnosis, construction, approved repair procedures and overhaul of current transmission types on manual transmissions and transaxles. Recommended preparation: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110.

Credits: 3 Lab: 9

AUT 203 - MANUAL DRIVE TRAINS II

Second part of a manual transmission sequence. A study of standard transmission and the relationship to clutches, driveshafts, rear axle assembly, transaxle, shift controls and four-wheel drive components. Students will learn on college-owned components. The student will learn operating principles, diagnosis and approved repair procedures on manual transmissions and related power train components. Includes emphasis on diagnosis, service and procedure to conform to current service manuals. Recommended preparation: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110.

Credits: 3 Lecture: 1.5 Lab: 4.5

AUT 204 - STEERING AND SUSPENSION

Designed to study and apply the theory, operation, diagnoses and repair of the modern suspension and steering systems. Recommended preparation: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110, AUT 208 and MTH 010 or higher.

Credits: 3 Lecture: 1.5 Lab: 4.5

AUT 205 - ENGINE PERFORMANCE I

Studies the diagnosis of driveability problems. Covers engine analysis, cooling and exhaust systems, ignition and fuel management systems. Recommended preparation: AUT 101, AUT 103, AUT 106, AUT 107, AUT 109 and AUT 110.

Credits: 2 Lecture: 1 Lab: 3

AUT 206 - ENGINE PERFORMANCE II

Studies diagnosis of driveability problems. Includes further study of engine analysis, ignition and fuel management systems, and super performance diagnosis. Provides the technician with a look into the causes of automotive emissions in relation to vehicles that are four years old and newer. Looks at various methods of emissions inspection/maintenance testing, the diagnosis of failed vehicles and enhanced on-board computer systems. Also covers the testing of alternative-fuel vehicles. Recommended preparation: AUT 101, AUT 102, AUT 103, AUT 104, AUT 106, AUT 107, AUT 109, AUT 111, AUT 205.

Credits: 2 Lecture: 1 Lab: 3

AUT 208 - AUTOMOTIVE BRAKES

Studies the theory, operation, diagnosis and repair of the modern braking systems of both domestic and import vehicles. Includes an introduction to anti-lock brake systems. Recommended preparation: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110 and MTH 010.

Credits: 3 Lecture: 1.5 Lab: 4.5

AUT 211 - ASE TEST PREP I

This self-paced, program-specific course allows the student to study in preparation for the ASE A1-A5 areas. Recommended preparation: completion of two terms of Automotive Technology curriculum and WR 060.

Credits: 1 Lab: 3

AUT 212 - ASE TEST PREP II

This self-paced, program-specific course allows the student to study in preparation for the ASE A6-A8 areas. Recommended preparation: completion of two terms of Automotive Technology curriculum and WR 060.

Credits: 1 Lab: 3

AUT 216 - CO-OP WORK EXPERIENCE AUTOMOTIVE

Provides an environment in which students can begin to recognize their strengths and limitations in their chosen career. The student is placed in an actual job environment where pressure, production and personalities are experienced. Cooperative Work Experience is a program requirement for students in the Automotive Technology program. Two CWE sections are required for the student who will achieve the Master Automotive Technician Certificate. Prerequisite: completion of two terms of Automotive Technology curriculum.

Credits: 1 to 4

AUT 216A - CWE AUTOMOTIVE A

The student is provided with the environment in which he/she can begin to recognize his/her strengths and limitations in their chosen career. The student is placed in an actual job environment where the experiences of pressure, production, and personalities are experienced. Cooperative Work Experience is a program requirement for students in the Automotive Technology Program. Two CWE sections are required for the student who will achieve the Master Automotive Technician Certificate. Prerequisite: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110. Instructor approval required. Recommended preparation: an additional 24 credits of automotive courses. 4 credits per section (144 hours).

Credits: 4

AUT 216B - CWE AUTOMOTIVE B

The student is provided with the environment in which he/she can begin to recognize his/her strengths and limitations in their chosen career. The student is placed in an actual job environment where the experiences of pressure, production, and personalities are experienced. Cooperative Work Experience is a program requirement for students in the Automotive Technology program. Two CWE sections are required for the student who will achieve the Master Automotive Technician Certificate. Prerequisite: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110. Instructor approval

required. Recommended preparation: an additional 24 credits of automotive courses. 4 credits per section (144 hours).

Credits: 4

AUT 251 - AUTOMATIC TRANSMISSIONS I

Provides an understanding of the basic principles and theory of planetary gear sets, torque converters and hydraulic controls as applied to automatic transmissions. Includes construction, operation and overhaul of current transmission types with emphasis on diagnosis, service and procedures to conform to current service manuals. A self-paced course. Prerequisites: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110, MTH 020.

Credits: 3 Lab: 9

AUT 253 - AUTOMOTIVE AIR CONDITIONING

A hands-on study of automotive air conditioning and heating systems, concurrent with EPA recovery requirements for R-12, R-134a systems, diagnosis and service. A study of advanced electrical systems found on late-model vehicles. Recommended preparation: AUT 101, AUT 102, AUT 106, AUT 107, AUT 109, AUT 110, MTH 020 or higher.

Credits: 3 Lecture: 1.5 Lab: 4.5

AUT 256 - AUTOMOTIVE TRANSMISSIONS II

This is the second part of an automatic transmission sequence. This course will continue principles and theory of planetary gear sets, torque converters and hydraulic controls as applied to automatic transmissions. Includes emphasis on diagnosis, service and procedures to conform to current service manuals. The student will also be introduced to Constant Velocity Transmissions/Hybrid Electric Vehicles/Electric Vehicle type transmissions. Prerequisites: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110. Instructor approval is required.

Credits: 2 Lecture: 1 Lab: 3

AUT 260 - DIESEL PERFORMANCE II

This is the second part of a diesel performance sequence. This course will provide the operational principles and theory of: Hydraulically actuated Electronically controlled Unit Injection (HEUI) systems, the Electronic Unit Injection (EUI) systems and the Common Rail (CR) systems, as they are applied to diesel engine performance. The course will include, in depth, Controller Area Networking (CAN) multiplexing, Controller Area Networking (CAN C) language (J1939 protocol), Software Updates, (J2534 re-flash), Vehicle Communication Interface (VCI), Selective Catalytic Reduction (SCR), Exhaust Gas Recirculation (EGR) systems, Variable Geometry Turbo-chargers (VGT), Constant Geometry Turbochargers (CGT) systems, Diesel Particulate Filter (DPF) variations, Diesel Oxidation Catalyst (DOC) systems and diagnostic strategies, that will lead to accurate conclusions. The student will be exposed to multiple vehicle product lines during this course and will be introduced to the proper techniques and procedures to repair them. Prerequisites: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110 Instructor approval required.

Credits: 4 Lecture: 2 Lab: 6

AUT 270 - AUTOMOTIVE CONTROLLER SYSTEMS I

Technological advancements in modern vehicles have changed how we perform diagnosis. This course examines various methods of those enhancements of automotive drive systems, with major emphasis on electronic programing, and how to accurately repair them, using computers and scan tools. This course will require the student technician to build on current diagnostic routines into advance applications. Prerequisites: AUT 106, AUT 101, AUT 107, AUT 109, AUT 110. Instructor approval is required.

Credits: 4 Lecture: 2 Lab: 6

AUT 271 - AUTOMOTIVE CONTROLLER SYSTEMS II

Vehicle performance is enhanced by a variety of methods. This course examines various methods of performance enhancements of automotive drive systems with major emphasis on electronic programing. Manufacturer scan tools will be included with vehicle testing. Prerequisites: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110. Instructor approval required.

Credits: 4 Lecture: 2 Lab: 6

AUT 280 - HYBRID ELECTRIC VEHICLES I

A study of Hybrid Electric Vehicles (HEV) and Electric Vehicles (EV). Safety procedures will be strongly emphasized. Vehicle systems that will be covered: hybrid safety and service procedures, introduction to hybrid batteries and service, introduction to hybrid electric motors, generators, and controls, regenerative braking systems, introduction to hybrid vehicle transmissions and transaxles, hybrid vehicle heating and air conditioning, first responder safety and procedures, introduction to manufacturer scan tools, Hybrid vehicle diagnostic trouble codes. Prerequisites: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110. Instructor approval required.

Credits: 4 Lecture: 2 Lab: 6

AUT 281 - HYBRID ELECTRIC VEHICLES II

A study of Hybrid Electric Vehicles (HEV) and Electric Vehicles (EV) part 2. Safety procedures will be strongly emphasized. Vehicle systems that will be covered include: hybrid safety and service procedures, advanced hybrid batteries testing and service, advanced testing of hybrid electric motors, generators and controls along with extensive manufacturer scan tools use and vehicle testing. Prerequisites: AUT 101, AUT 106, AUT 107, AUT 109, AUT 110. Instructor approval required.

Credits: 4 Lecture: 2 Lab: 6

AVIATION

AV 101 - INTRODUCTION TO AVIATION

This course introduces the student to the Federal Aviation Regulations/ Aeronautical Information Manual (FAR/AIM). Designed to build an understanding of the pilot credentials required for a career in aviation and help students explore various career options. A variety of employment opportunities are investigated, including commercial, business, corporate, military and general aviation-related business. Emphasis will be given to careers in operations and flight technology. Airplane and helicopter pilot careers will be emphasized.

Credits: 3 Lecture: 3

AV 104 - INTRODUCTION TO AIRCRAFT SYSTEMS

Introduces the student to the training aircraft that are used in general aviation, and will look in detail at those aircraft used in this program. Aircraft in current use for training by industry will be studied and emphasis placed on basic aircraft systems operations, including emergencies. Applicable federal aviation regulations, including the use of minimum equipment lists, will be studied.

Credits: 4 Lecture: 4

AV 108 - METEOROLOGY I

A survey course in atmospheric science that covers weather basics and atmospheric circulations. Included is a systematic development of the following: the atmosphere, energy and temperature, wind, atmospheric moisture, horizontal and vertical pressure patterns, clouds, atmospheric circulation, stability, air masses, fronts, fog, icing, thunderstorms, jet streams and turbulence. Students will study surface weather observations, routine weather reports and forecasts, surface maps and constant pressure maps.

Credits: 4 Lecture: 4

AV 110 - PRIVATE PILOT - AIRPLANE

Provides initial ground instruction in aeronautical skills and knowledge for the FAA Private Pilot certificate. Involves an introduction to fundamentals of flight, aerodynamics, flight operations, airspace, weather and weather products, flight planning, decision-making, human factors, human factors in aviation and crew resource management. Comprehensive course that prepares student for the FAA Private Pilot airman knowledge written exam. Recommended preparation: MTH 020 or higher.

Credits: 5 Lecture: 5

AV 112 - TECHNICALLY ADVANCED AIRCRAFT

The course covers the differences in design, handling characteristics, capability and operation of complex avionics packages in today's modern aircraft. Course will concentrate on the Garmin 430, Garmin 500, Garmin 750 and Garmin 100 glass cockpit systems.

Credits: 1 Lecture: 1

AV 112A - TECHNICALLY ADVANCED AIRCRAFT LAB

The lab course provides one-on-one hands-on training in a simulator using the (FAA) -Industry Training Standards (FITS) program that emphasizes the importance of "real world" training exercises in the form of scenario training. Students will learn to program and utilize advance automated flight decks.

Credits: 1 Lab: 3.2

AV 115 - PRIVATE PILOT - HELICOPTER

Covers fundamentals of flight, flight operations, aviation weather, performance, navigation, aircraft systems, aeronautical publications, FAA regulations, flight planning, radio procedures, meteorology and human factors. Comprehensive course that prepares students for the FAA Private Pilot airman knowledge exam. Recommended preparation: MTH 020.

Credits: 5 Lecture: 5

AV 117 - HELICOPTER FUNDAMENTALS

This course covers fundamentals of helicopter flight, flight operations, helicopter performance, navigation, helicopter systems, aeronautical publications, helicopter flight maneuvers, flight planning, radio procedures, meteorology and human factors. Recommended preparation: MTH 020.

Credits: 3 Lecture: 3

AV 150 - AERODYNAMICS

An in-depth study of aerodynamics, beginning with a brief history of the development of flight and flight theory. The physics of lift, drag, weight and thrust are related to airfoil and aircraft design and operational characteristics. Aircraft stability and control are related to aircraft performance and safety. Students will demonstrate their knowledge of aerodynamics through projects in which they predict aircraft performance. Recommended preparation: MTH 085, MTH 111 or higher.

Credits: 4 Lecture: 4

AV 188 - SPECIAL STUDIES: AVIATION

Explores topics of current interest in the discipline.

Credits: 1 to 5

AV 199 - SELECTED TOPICS: AVIATION

This course is in development.

Credits: 1 to 8

AV 200 - AVIATION LAW

This course offers an introductory analysis of legal concepts related to the aviation industry, including aircraft operations, airports, fixed based operators (FBOs), contracts, insurance and liability, regulatory statutes and case law. The historical development of aviation law in the United States is included.

Credits: 3 Lecture: 3

AV 201 - AIRPORT MANAGEMENT

This course is a study of the development of airports and the functions and responsibilities of airport management. This course provides an historical background and studies the roles of various governmental agencies in the management and regulation of airports.

Credits: 3 Lecture: 3

AV 204 - ADVANCED AIRCRAFT SYSTEMS

Encompasses a detailed study of aircraft systems and structures and enables the student to progress into heavier, more complex single and multi-engine aircraft. Aircraft in current use by industry will be studied with an emphasis placed on operations, including emergencies. Applicable FAR and Minimum Equipment Lists, will be studied. Recommended preparation: AV 104.

Credits: 4 Lecture: 4

AV 208 - METEOROLOGY II

Focuses on application of meteorology theory and the availability, understanding and use of weather products. Emphasis is placed on maximizing aircraft performance and minimizing exposure to weather hazards. Includes examining the weather forecasting models, detailed use and interpretation of graphic weather products, access to telephone

and internet weather briefing sites and utilization of weather products. Recommended preparation: AV 108 or instructor approval.

Credits: 4 Lecture: 4

AV 210 - INSTRUMENT - AIRPLANE

The instrument rating ground school prepares students for the FAA Instrument airman knowledge test and an FAA Instrument Rating. Includes an in-depth study of basic attitude instrument flying, IFR navigation systems and procedures, aircraft flight instruments, aviation weather, applicable FARs and the instrument charts required for IFR flight. Recommended preparation: AV 110 and/or Private Pilot Certificate.

Credits: 5 Lecture: 5

AV 215 - INSTRUMENT HELICOPTER

The instrument rating ground school for helicopter prepares students for the FAA Instrument knowledge test and an FAA Instrument Rating. Includes an in-depth study of aircraft flight instruments, basic attitude instrument flying, IFR navigation systems and procedures, aviation weather, applicable FARs and the instrument charts required for IFR flight. Recommended preparation: AV 115 and/or FAA Private Pilot Certificate.

Credits: 5 Lecture: 5

AV 220 - COMMERCIAL PILOT - AIRPLANE

Ground instruction of aeronautical skills and knowledge applicable to the FAA Commercial Pilot Certification portion of the Professional Pilot training syllabus. Covers night flight, aviation physiology, advanced aerodynamics, aircraft performance, weight and balance, complex aircraft operations, advanced airplane systems, commercial operations and FAA Regulations for commercial pilots and noncommercial flight operations, with emphasis on human factors, crew resource management and decision-making. Recommended preparation: AV 110 and/or FAA Private Pilot Certificate.

Credits: 4 Lecture: 4

AV 222A - AIRPLANE FLIGHT LAB

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating in single engine and multiengine airplanes. Professional Pilot students will be prepared to become airplane-certified flight instructors (CFI) with ratings for single engine land, multiengine land and instrument airplane. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule. Instructor approval required.

Credits: 1 Lab: 3.2

AV 222B - AIRPLANE FLIGHT LAB

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Professional Pilot Course includes certification training for the commercial pilot certificate with instrument rating in single engine and multiengine airplanes. Professional Pilot students will be prepared to become airplane certified flight instructors (CFI) with ratings for single engine land, multiengine land and instrument airplane. Flight, ground, and simulator training fees apply. See Aviation program director for current fee schedule. Instructor approval required.

Credits: 1 Lab: 3.2

AV 222C - AIRPLANE FLIGHT LAB

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating in single engine and multiengine airplanes. Professional Pilot students will be prepared to become airplane certified flight instructors (CFI) with ratings for single engine land, multiengine land and instrument airplane. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule. Instructor approval required.

Credits: 1 Lab: 3.2

AV 222D - AIRPLANE FLIGHT LAB

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating in single engine and multiengine airplanes. Professional Pilot students will be prepared to become airplane certified flight instructors (CFI) with ratings for single engine land, multiengine land and instrument airplane. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule. Instructor approval required. Credits: 1 Lab: 3.2

AV 222E - AIRPLANE FLIGHT LAB

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating in single engine and multiengine airplanes. Professional Pilot students will be prepared to become airplane certified flight instructors (CFI) with ratings for single engine land, multiengine land (MEI) and instrument (CFII) airplane. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 222F - AIRPLANE FLIGHT LAB

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating in single engine and multiengine airplanes. Professional Pilot students will be prepared to become airplane certified flight instructors (CFI) with ratings for single engine land, multiengine land (MEI) and instrument (CFII) airplane. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 222G - AIRPLANE FLIGHT LAB

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating in single engine and multiengine airplanes. Professional Pilot students will be prepared to become airplane certified flight instructors (CFI) with ratings for single engine land, multiengine land (MEI) and instrument (CFII) airplane. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 222H - AIRPLANE FLIGHT LAB

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating in single engine and multiengine airplanes. Professional Pilot students will be prepared to become airplane certified flight instructors (CFI) with ratings for single engine land, multiengine land (MEI) and instrument (CFII) airplane. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 222I - AIRPLANE FLIGHT LAB

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating in single engine and multiengine airplanes. Professional Pilot students will be prepared to become airplane certified flight instructors

(CFI) with ratings for single engine land, multiengine land (MEI) and instrument (CFII) airplane. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 222J - AIRPLANE FLIGHT LAB

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating in single engine and multiengine airplanes. Professional Pilot students will be prepared to become airplane certified flight instructors (CFI) with ratings for single engine land, multiengine land (MEI) and instrument (CFII) airplane. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 222K - AIRPLANE FLIGHT LAB

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating in single engine and multiengine airplanes. Professional Pilot students will be prepared to become airplane certified flight instructors (CFI) with ratings for single engine land, multiengine land (MEI) and instrument (CFII) airplane. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 222M - AIRPLANE FLIGHT LAB

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating in single engine and multiengine airplanes. Professional Pilot students will be prepared to become airplane certified flight instructors (CFI) with ratings for single engine land, multiengine land (MEI) and instrument (CFII) airplane. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 225 - COMMERCIAL PILOT - HELICOPTER

Reviews the principles of flight, aircraft systems, pertinent federal aviation regulations and airman publications and service in order to prepare the student for the FAA Commercial Helicopter Pilot airman knowledge exam. Recommended preparation: AV 115 and/or FAA Private Pilot Certificate.

Credits: 4 Lecture: 4

AV 227A - HELICOPTER FLIGHT LAB SERIES I

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series I pathway trains pilots in compact, lightweight helicopters. There is a pilot weight restriction of 210 lbs. due to the power limited nature of the aircraft. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 227B - HELICOPTER FLIGHT LAB SERIES I

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series I pathway trains pilots in compact, lightweight helicopters. There is a pilot weight restriction of 210

lbs. due to the power limited nature of the aircraft. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 227C - HELICOPTER FLIGHT LAB SERIES I

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series I pathway trains pilots in compact, lightweight helicopters. There is a pilot weight restriction of 210 lbs. due to the power limited nature of the aircraft. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 227D - HELICOPTER FLIGHT LAB SERIES I

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series I pathway trains pilots in compact, lightweight helicopters. There is a pilot weight restriction of 210 lbs. due to the power limited nature of the aircraft. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 227E - HELICOPTER FLIGHT LAB SERIES I

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series I pathway trains pilots in compact, lightweight helicopters. There is a pilot weight restriction of 210 lbs. due to the power limited nature of the aircraft. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 227F - HELICOPTER FLIGHT LAB SERIES I

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series I pathway trains pilots in compact, lightweight helicopters. There is a pilot weight restriction of 210 lbs. due to the power limited nature of the aircraft. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 227G - HELICOPTER FLIGHT LAB SERIES I

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series I pathway trains pilots in compact, lightweight helicopters. There is a pilot weight restriction of 210 lbs. due to the power limited nature of the aircraft. The Professional Pilot course includes certification training for the commercial pilot certificate

with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 227H - HELICOPTER FLIGHT LAB SERIES I

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series I pathway trains pilots in compact, lightweight helicopters. There is a pilot weight restriction of 210 lbs. due to the power limited nature of the aircraft. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 2271 - HELICOPTER FLIGHT LAB SERIES I

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series I pathway trains pilots in compact, lightweight helicopters. There is a pilot weight restriction of 210 lbs. due to the power limited nature of the aircraft. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 227J - HELICOPTER FLIGHT LAB SERIES I

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series I pathway trains pilots in compact, lightweight helicopters. There is a pilot weight restriction of 210 lbs. due to the power limited nature of the aircraft. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 227N - HELICOPTER FLIGHT LAB SERIES I

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series I pathway trains pilots in compact, lightweight helicopters. There is a pilot weight restriction of 210 lbs. due to the power limited nature of the aircraft. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 228A - HELICOPTER FLIGHT LAB SERIES II

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series II pathway trains pilots in helicopters with no pilot weight restriction. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation

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program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 228B - HELICOPTER FLIGHT LAB SERIES II

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series II pathway trains pilots in helicopters with no pilot weight restriction. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 228C - HELICOPTER FLIGHT LAB SERIES II

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series II pathway trains pilots in helicopters with no pilot weight restriction. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 228D - HELICOPTER FLIGHT LAB SERIES II

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series II pathway trains pilots in helicopters with no pilot weight restriction. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 228E - HELICOPTER FLIGHT LAB SERIES II

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series II pathway trains pilots in helicopters with no pilot weight restriction. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 228F - HELICOPTER FLIGHT LAB SERIES II

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series II pathway trains pilots in helicopters with no pilot weight restriction. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 228G - HELICOPTER FLIGHT LAB SERIES II

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots

in the air transportation industry. The Series II pathway trains pilots in helicopters with no pilot weight restriction. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 228H - HELICOPTER FLIGHT LAB SERIES II

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series II pathway trains pilots in helicopters with no pilot weight restriction. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 228I - HELICOPTER FLIGHT LAB SERIES II

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series II pathway trains pilots in helicopters with no pilot weight restriction. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 228J - HELICOPTER FLIGHT LAB SERIES II

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series II pathway trains pilots in helicopters with no pilot weight restriction. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 228N - HELICOPTER FLIGHT LAB SERIES II

The Professional Pilot flight labs provide ground, simulator and flight instruction and training for students desiring careers as professional pilots in the air transportation industry. The Series II pathway trains pilots in helicopters with no pilot weight restriction. The Professional Pilot course includes certification training for the commercial pilot certificate with instrument rating. Professional Pilot students will be prepared to become certified flight instructors (CFI) with the instrument (CFII) helicopter rating. Flight, ground and simulator training fees apply. See Aviation program director for current fee schedule and lab scheduling. Instructor approval required.

Credits: 1 Lab: 3.2

AV 230 - MULTIENGINE PILOT

Ground instruction of aeronautical skills and knowledge applicable to the private multiengine pilot certification in light twins. The course may also be taken by those pilots who have a commercial single engine rating to obtain an additional rating for commercial multiengine. Emphasis is on engine failure, multiengine aerodynamics, minimum controllable airspeed, propeller feathering, V-speeds, flight planning, decision-making, human factors and crew resource management. Recommended preparation: AV 110 and/or FAA Private Pilot Certificate.

Credits: 2 Lecture: 2

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AV 235 - HUMAN FACTORS

An introduction to the field of human behavior and characteristics as critical factors in the design and operation of electronic/machine systems. Emphasis is on crew resource management and human factors, including the study of human performance in complex systems with an examination of personality, stress, anxiety, fatigue, communication skills, decision-making, situational awareness, analysis of aviation and accidents, and practical application of human factors and performance to modern aviation.

Credits: 4 Lecture: 4

AV 245 - ADVANCED HELICOPTER OPERATIONS

The course will address advanced helicopter operations in a ground school environment. Students will be introduced to operations of turbine helicopters. The mountain flying phase will provide students with a working knowledge of operations in and around mountainous terrain. The external load phase covers the basic skills of flying with an external longline attached to the aircraft. The night vision goggle (NVG) phase will introduce the student to a new realm of flying safely at night, and will be completed using an Internet based FAA approved Part 141 training syllabus and classroom instruction. Students will also be introduced to the unique aspect of overwater operations. NVG course licensing fee applies. See Aviation program director for current course fee.

Credits: 4 Lecture: 4

AV 246 - AVIATION SAFETY

A detailed introduction into aspects of aviation safety, intended to promote flight safety in the general aviation and training environment. Topics include risk management, pilot psychology, human factors, accident trends, analysis of accident reports and safety survival.

Credits: 3 Lecture: 3

AV 250 - CERTIFIED FLIGHT INSTRUCTOR-AIRPLANE

Provides the flight instructor applicant with fundamental concepts and practice for successful flight instruction at the recreational, private and commercial pilot level. Elements include fundamentals of instruction, developing lesson plans for private pilot and commercial pilot syllabus, designing curriculum, creating objective evaluation and grading criteria, and practical application in presenting technical material in an interactive classroom setting. Two FAA airman knowledge tests are required to obtain the CFI certificate, and a third is recommended. See Aviation program director for current fees. Recommended preparation: AV 220 or FAA Commercial Pilot Certificate and Instrument Rating.

Credits: 5 Lecture: 5

AV 255 - CERTIFIED FLIGHT INSTRUCTOR-HELICOPTER

Teaches techniques of flight and ground instruction, analysis of maneuvers, aircraft performance and federal aviation regulations applicable to flight instructors. Practice instructing will be required. Student will prepare for the FAA Fundamentals of Instruction (FOI), CFI Helicopter and Advanced Ground Instructor (AGI) exams. See Aviation program director for current fee schedule. Recommended preparation: AV 225 and/or FAA Commercial Pilot Certificate.

Credits: 5 Lecture: 5

AV 271 - INTRODUCTION TO UNMANNED AERIAL SYSTEMS

This course introduces students to the history of Unmanned Aerial Systems (UAS) and surveys current UAS platforms, sensors, terminology, challenges to integrating unmanned systems into the national airspace system, operational theory, and the Federal Aviation Administration (FAA) certificate of authorization (COA) process. Instructor approval required.

Credits: 4 Lecture: 2 Other: 4

AV 272 - UNMANNED AERIAL SYSTEMS (UAS) OPERATIONS

Surveys current UAS platforms, sensors, and terminology. Explores integration and application of UAS resources in United States Airspace. Focuses on building and executing simulated operations in a noncombative environment. Recommended preparation: AV 271.

Credits: 5 Other: 10

AV 273 - UNMANNED AERIAL SYSTEMS OPS MAINTENANCE

Progression to higher level simulation and mission planning/execution. Includes a transition from the classroom setting to field operations for actual launches, recoveries and maintenance of Unmanned Aerial Systems. Recommended preparation: AV 271. Prerequisite: AV 272.

Credits: 5 Other: 10

AV 288 - SPECIAL STUDIES: AVIATION

Explores topics of current interest in the discipline.

Credits: 1 to 5

AV 299 - SELECTED TOPICS: AVIATION

This course is in development.

Credits: 1 to 8

BAKING AND PASTRY ARTS

BAK 100 - WANT TO BE A PASTRY CHEF?

This course serves as an introduction to the field of baking and pastry arts. It is designed for students considering declaring Baking and Pastry Arts as a major, or those taking courses to enhance placement scores to enter the next Cascade Culinary Institute cohort start. This course will enable students to experience an introduction to baking and pastry arts with a demonstration and hands on class that covers the basics of baking techniques and flavor profiling. Students will "get a taste" of the baking industry, while learning the secrets of being a successful pastry professional.

Credits: 2 Other: 4

BAK 101 - INTRODUCTION TO BAKING & PASTRY

This introductory level course covers the basic theory and skill sets used throughout the field of baking and pastry. Topics covered include the use of hand tools and equipment found in a bakeshop, as well as the exploration of baking and pastry ingredients and their functions. Students will gain a working knowledge of the major methods such as creaming, blending, foaming, meringues, pre-cooked, cut-in, lamination, straight dough, custards, frozen desserts, chocolates and sauces. Students will also taste and evaluate products they create in class to enhance their understanding of the course material.

Credits: 4 Other: 8

BAK 110 - BAKING AND PASTRY FOUNDATIONS I

Learn about the baking industry, nomenclature, equipment, kitchen operations, knife skills, baking techniques, science, ratios and standardized recipes. Learn about and produce fruit desserts, cookies, meringues, pate a choux and basic custards. Prerequisites with concurrency: CUL 90, CUL 102; and choose either WR 121 or BA 214. Credits: 4 Other: 8

BAK 140 - BAKING AND PASTRY FOUNDATIONS II

In this baking foundations class students will have the opportunity to learn basic principles and techniques involved in the production of breads and yeast risen doughs, laminate doughs and pies and tarts. Lecture and lab topics will include: the 12 stages of yeast dough production, continuing discussion on product identification and selection, wheat based flours, baker percentages, gluten development, lean straight doughs, soft crusted breads, basic laminate doughs. Students will have opportunities for hands-on learning in all of these topics. Emphasis in this course will be given to Tuckman's Group Development Model on the "storming" stage. Prerequisites: C or better in BAK 110.

Credits: 4 Other: 8

BAK 170 - BAKING AND PASTRY FOUNDATIONS III

In this course, students will have the opportunity to learn basic principles and techniques involved in the production of quick breads and dessert foundation sauces, mixing and baking cake layers and assembling classic cakes. Students will obtain a first aid/CPR certification. Lecture topics will include menu planning with consideration of food and labor cost as well as balancing flavors and textures in desserts. Emphasis in this course

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will be given to Tuckman's Group Development Model on the "norming" stage. Prerequisites: "C" or better in BAK 110.

Credits: 4 Other: 8

BAK 180 - CUSTARDS AND FROZEN DESSERTS

Preparation techniques and production skills for a variety of custards, puddings, Bavarians and mousses, still-frozen and churn-frozen desserts, ice creams, granitas, sorbet and sherbet production and presentations. Prerequisites: "C" or better in CUL 110 or BAK 110.

Credits: 4 Other: 8

BAK 188 - SPECIAL STUDIES, BAKING AND PASTRY ARTS

Special Studies in Baking and Pastry Arts

Credits: 1 to 9

BAK 199 - SELECTED TOPICS: BAKING AND PASTRY ARTS

Provides opportunity for students with exceptional background or need to continue beyond normal Baking and Pastry Arts program content. Content and credit(s) earned are established by mutual agreement between instructor and student and detailed in written agreement at the start of the term.

Credits: 1 to 6

BAK 210 - MODERN SUGAR AND CHOCOLATE DECOR

Prepare a variety of chocolate and sugar decorations and develop sculpting techniques to produce decorations that can embellish other desserts or artistic showpieces for display. Students will learn techniques such as tempering chocolate, use of various types of molds, making cut-out decorations, utilizing transfer sheets, that will be applied to showpieces. Students are introduced to various sugar techniques including pulled sugar such as ribbons and flowers, blown sugar to create three-dimensional shapes, spun, piped, bubble, and poured sugar and airbrushing techniques to create a variety of showpieces. Students will use a given theme upon which they must build a sugar as well as a chocolate showpiece. Prerequisite: BAK 110 or CUL 110.

Credits: 4 Other: 8

BAK 220 - WEDDING CELEBRATION AND SPECIALTY CAKES

In this course, students learn the history of celebration cakes, such as the wedding cake, and how to make British and American-style celebration cakes, including baking, decoration and assembly work. Students will bake sponge cakes, create buttercream fillings, make gum-paste flowers, royal icing piped decorations and rolled fondant. Students will then produce wedding and celebration cakes incorporating all these elements, from design, baking and assembly to covering and decorating. Prerequisites: BAK 110 or CUL 110.

Credits: 4 Other: 8

BAK 235S - CLASSICAL FRENCH PASTRIES

In this course, students learn to produce a wide variety of classic and modern French cakes or "entremets" suitable for large or small-scale productions using the latest assembling techniques and cost-effective production methods. These cakes will be highlighted with decorations such as silk screens, printed logos and chocolate and sugar decorations. Students will utilize updated methods of traditional French recipes using fresh ingredients. Students' cakes in this course will represent a variety of textures and flavors. Also taught will be classic French tarts, giving further practice to different elements in pastry such as different types of crusts, doughs and fillings, and will present new opportunities for combining those elements in cakes and tarts. Emphasis in this course will be given to Tuckman's Group Development Model on the "forming" stage. Prerequisites: "C" or better in CUL 140 or BAK 140.

Credits: 4 Other: 8

BAK 240 - THE CRAFT OF ARTISAN BREADS

This course gives students the chance to learn the principles and techniques of preparing multigrain breads, sourdoughs, bagels, pretzels, holiday or seasonal breads and flat breads. Special emphasis will be placed on regional breads and breads of the world, handling grains (such as soakers) for specialty breads, mixing, shaping and finishing specialty breads and learning innovative baking methods. Emphasis in this course

will be given to Tuckman's Group Development Model on the "forming" stage. Prerequisites: "C" or better in CUL 110 or BAK 110.

Credits: 4 Other: 8

BAK 245S - ADVANCED SUGAR DECOR AND CHOCOLATE SCULPTING

In this course students are taught a variety of chocolate and sugar decorations and sculpting techniques to produce decorations that can embellish other desserts or artistic showpieces for display. They will learn techniques such as applying chocolate colors with a spray gun, use of various types of molds, making cut-out decorations and silk screens, that will be applied to showpieces. Students are introduced to various sugar techniques such as pastillage, saturated sugar, pulled sugar such as ribbons and flowers, blown sugar to create three-dimensional shapes, spun, piped, bubble, straw, and poured sugar, and airbrushing techniques to create a variety of showpieces. Students will use a given theme upon which they must design and build a sugar as well as a chocolate showpiece. Emphasis in this course will be given to Tuckman's Group Development Model on the "forming" stage. Prerequisites: "C" or better in BAK 210.

Credits: 4 Other: 8

BAK 250 - PETIT FOURS, CANDIES AND CLASSICAL MIGNARDISE

In this course students will learn how to make individual mini French pastries and petits fours such as the traditional éclair, fruit and lemon tartlettes, macaroons and madeleines. This course will allow students to practice many different types of elements used in French pastry such as pastry cream, buttercream, glazes, cream-based fillings, fruit-based fillings, chocolate-based fillings and doughs. Students will also learn how to present a beautiful display of their petits fours. Students learn how to make sugar confectioneries, such as pâte de fruit (fruit pastes) in a variety of flavors, guimauve (marshmallow), praliné, caramels with salted butter, chocolate caramels, nougats, lollipops and gummies. Students will also learn how to properly package their candies and how to display them. Emphasis in this course will be given to Tuckman's Group Development Model on the "forming" stage. Prerequisites: "C" or better in CUL 110 or BAK 110.

Credits: 4 Other: 8

BAK 255S - ARTISAN BREADS WITH HEIRLOOM WHOLE GRAINS

Make a variety of specialty breads such as multigrain, rye, flax seed, organic baguette and organic spelt. Make products with multiple flours, mixed fermentation techniques and various production processes. Analyze different flours and the health and nutritional benefits of the breads made from them. Prerequisites: BAK 110 or CUL 110.

Credits: 4 Other: 8

BAK 280 - BAKING AND PASTRY ARTS INDUSTRY INTERNSHIP

This course serves as a supervised work experience designed to expand career knowledge and experiential confidence while increasing knowledge, speed, timing, organization and the ability to execute industry skills on a repetitive basis. Students will receive a diverse work experience that is designed on a systematic rotation of different stations in the kitchen, dining room and general operations positions. Students can complete 100% of the experience in competencies that are relevant to Baking and Pastry Arts. Prerequisites: "C" or better in BAK 140.

Credits: 6 Other: 20

BAK 298 - INDEPENDENT STUDY: BAKING

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

BIOLOGY

BI 101 - GENERAL BIOLOGY: CELLS & GENES

Designed to fulfill general education requirements, this course is intended for non-major students whose program requires biology courses. Centers on concepts of unity of living organisms including evolution, biochemistry, cell biology genetics and development. Need not be taken in sequence. Lab meets first week of classes.

Credits: 4 Lecture: 3 Lab: 3

BI 102 - GENERAL BIOLOGY: EVOLUTION

Designed to fulfill general education requirements, this course is intended for non-major students whose program requires biology courses. Focus is on concepts of biological diversity including the evidence for and mechanisms of evolution, sexual selection and adaptations to local environments. Need not be taken in sequence. Lab meets the first week of classes. This course includes animal dissection.

Credits: 4 Lecture: 3 Lab: 3

BI 103 - GENERAL BIOLOGY: ECOLOGY

Designed to fulfill general education requirements, this course is intended for non-major students whose program requires biology courses. Focus is on ecological concepts including interactions between organisms and the abiotic environment, co-evolutionary adaptations and Central Oregon flora and/or fauna. Scheduled labs may include outdoor field trips. Need not be taken in sequence. Lab meets the first week of classes.

Credits: 4 Lecture: 3 Lab: 3

BI 121 - ANATOMY AND FUNCTION I

Covers body organization, the cell, skin, blood, heart and circulation, immunity, respiration, bones and skeletal muscles. Designed for pharmacy technician, medical assisting and massage therapy programs. Lecture and lab are taken simultaneously; they are not offered as separate classes. Preserved animal tissues are used in some labs.

Credits: 4 Lecture: 3 Lab: 3

BI 122 - ANATOMY AND FUNCTION II

Covers the nervous system, eyes, ears, reproduction, genetics, digestion, urinary system, hormones and diabetes. Designed for pharmacy technician, medical assisting and massage therapy programs. Lecture and lab are taken simultaneously; not offered as separate classes. Preserved animal tissues are used in some labs. Recommended preparation: BI 121.

Credits: 4 Lecture: 3 Lab: 3

BI 188 - SS: BIOLOGY

Explores topics of current interest in the discipline.

Credits: 1 to 6

BI 205 - SCIENTIFIC TERMINOLOGY: LATIN AND GREEK ROOTS

Designed for majors in natural science and social science wishing to enhance their understanding of the basic Latin and Greek prefixes, suffixes and language roots that are applicable to study and reading in science-related fields. Develops skill in how words are formed, the history, meaning, pronunciation and spelling of scientific terms.

Credits: 3 Lecture: 3

BI 211 - PRINCIPLES OF BIOLOGY I

Introduces basic principles common to all living organisms. Emphasizes chemistry and evolution of life, cellular morphology and genetics. Designed for majors in the life sciences and should be taken in sequence. Animals will be dissected in this class. Recommended preparation: CH 221.

Credits: 5 Lecture: 4 Lab: 3

BI 212 - BIOLOGY OF PLANTS II

Surveys bacteria, protists, fungi and plants; examines evolutionary and ecological interrelationships and emphasizes aspects of plant morphology and physiology. Designed for majors in life sciences as well as those pursuing botany. Field trips may be required. Prerequisite: BI 211 with a "C" or better.

Credits: 5 Lecture: 4 Lab: 3

BI 213 - BIOLOGY OF ANIMALS III

Examines evolution of animals along with their diversity, ecology, morphology and physiology. Designed for majors in life sciences. Field trips may be required. This course includes animal dissection.

Prerequisite: BI 211 with a "C" or better.

Credits: 5 Lecture: 4 Lab: 3

BI 231 - HUMAN ANATOMY AND PHYSIOLOGY I

Examines the structure and function of the human body utilizing a systems approach. Emphasizes body organization, cells, tissues, as well as microscopic and gross anatomy along with the functional roles of the integumentary, skeletal and muscular systems, and concludes with nerve cells and tissue. Concurrent labs include hands-on dissections of a variety of tissues, organs, rats, fetal pigs and/or cats. First course of a sequence for students in pre-nursing and other pre-professional health programs. This course includes animal dissection and cadaver observation. Prerequisite: WR 065 or WR 095 with a "C" or better, or Reading or Writing placement test scores that place the student into WR 121.

Credits: 4 Lecture: 3 Lab: 3

BI 232 - HUMAN ANATOMY AND PHYSIOLOGY II

Continuation of examination of the structure and function of the human body utilizing a systems approach with an emphasis on anatomical and physiological relationships between nervous, endocrine and cardiovascular systems. Concurrent labs include hands-on dissections of a variety of tissues, organs, fetal pigs and/or cats. For students in prenursing and other pre-professional health programs. This course includes animal dissection and cadaver observation. Prerequisite: BI 231 with a grade of "C" or better.

Credits: 4 Lecture: 3 Lab: 3

BI 233 - HUMAN ANATOMY AND PHYSIOLOGY III

Continuation of examination of the structure and function of the human body utilizing a systems approach. BI 233 emphasizes the anatomical and physiological relationships between the lymphatic/immune, respiratory, digestive, urinary and reproductive systems. Concurrent labs include hands-on dissections of a variety of tissues, organs, fetal pigs and/or cats. For students in pre-nursing and other pre-professional health programs. This course includes animal dissection and cadaver observation. Prerequisite: BI 232 with a "C" or better.

Credits: 4 Lecture: 3 Lab: 3

BI 234 - MICROBIOLOGY

This course is designed for students to learn the characteristics and disease-causing features of microorganisms, especially the bacteria and viruses that cause serious infectious diseases in humans. It covers defense mechanisms against infections and disease, and the development of immunity against future infections. The mechanisms of action of certain classes of anti-microbial drugs are discussed. The course also covers some of the historically-common human infections and diseases. This course is designed especially for students in nursing, pre-pharmacy and other pre-professional health programs. Prerequisite: Completion of WR 065 or higher with a "C" or better or placement testing in WR 095 or higher.

Credits: 4 Lecture: 3 Lab: 3

BI 280 - CO-OP WORK EXPERIENCE BIOLOGY

Provides experience in which students apply previous classroom learning in an occupational setting. Credits depend on the number of hours worked. P/NP grading. Instructor approval required.

Credits: 1 to 4

BI 288 - SPECIAL STUDIES: BIOLOGY

Explores topics of current interest in the discipline.

Credits: 1 to 4

BI 299 - SELECTED TOPICS: BIOLOGY

This course is in development.

Credits: 1 to 5

BOTANY

BOT 203 - GENERAL BOTANY

Surveys flowering plant families by identification of local flora and the use of taxonomic keys. Studies floral morphology, history and development of classification and systematics. Recommended preparation: BI 103 or BI 212.

Credits: 4 Lecture: 3 Lab: 3

BUSINESS

BA 101 - INTRODUCTION TO BUSINESS

In this course students will learn about the many exciting and challenging facets of business and its dynamic role in today's environment. Students will gain a working knowledge of components of business including discussion of management, marketing, entrepreneurship and finance. During this course students will be introduced to topics which are covered in greater depth in higher level business courses. Students are encouraged to use this course to explore the breadth of business topics offered in the Business Administration degrees and identify specific areas of interest or specialization.

Credits: 4 Lecture: 4

BA 104 - BUSINESS MATH

Designed to equip students with skills to handle everyday arithmetic problems relative to a business environment and lay the foundation for other business courses including computer classes that use basic business math as examples and assignments. Topics include ratio, proportion, percent, interest, time value of money, markup and discounts, payroll, stocks and bonds, and depreciation. Prerequisite: "C" or better in MTH 060, MTH 060 equivalency met, or appropriate placement exam score.

Credits: 3 Lecture: 3

BA 111 - APPLIED ACCOUNTING I

Designed to acquaint students with the basic functions of the bookkeeping and accounting process--journalizing transactions into the journal, posting to the general ledger, analyzing and adjusting the ledger, preparing simple financial statements for a service business and gaining an understanding and working knowledge of the overall payroll function. No previous accounting is required. Prerequisite: MTH 060 or higher. Credits: 3 Lecture: 3

BA 112 - APPLIED ACCOUNTING II

Continuation of Applied Accounting I. Provides a detailed study of the mechanical and theoretical aspects of the bookkeeping and accounting process as it relates to a merchandising business. Prerequisite: BA 111.

Credits: 3 Lecture: 3

BA 113 - APPLIED ACCOUNTING III

Continuation of Applied Accounting II. Provides students with an in-depth, more detailed background of specific areas of accounting so that they will be able to effectively deal with most accounting situations as they relate to all business forms. Prerequisite: BA 112.

Credits: 3 Lecture: 3

BA 120 - INTRODUCTION TO SUPPLY CHAIN MANAGEMENT

This course introduces the student to supply chain management which encompasses all activities associated with the flow and transformation of goods and services from beginning to the end user. Recommended preparation: BA 101.

Credits: 4 Lecture: 4

BA 121 - LOGISTICS MANAGEMENT

This course introduces the student to logistics management processes. Attention is given to such issues as transportation management, warehouse and facility location management, inventory management and customer service strategies. Recommended preparation: BA 101.

Credits: 4 Lecture: 4

BA 123 - INTRODUCTION TO TRANSPORTATION LOGISTICS

This course provides a working knowledge of the processes involved in dispatching trucks, trip assembly and transportation terminology. Recommended preparation: BA 101.

Credits: 4 Lecture: 4

BA 124 - TRUCKING OPERATIONS MANAGEMENT

This course provides a working knowledge of the basic regulations governing the movement of domestic cargo. Additionally, the student will understand how the various modalities of domestic and international cargo combine to move freight in the global supply chain. Prerequisite: BA 123.

Credits: 4 Lecture: 4

BA 177 - PAYROLL ACCOUNTING

Provides the fundamental accounting skills to calculate payroll for any business organization. Topics include calculating payroll based on current laws and regulations, recording payroll transactions in the general journal and general ledger, and completing required federal payroll tax forms and reports. Recommended preparation or recommended to be taken with: BA 112 or BA 212.

Credits: 3 Lecture: 3

BA 178 - CUSTOMER SERVICE

This course introduces principles of effective customer service. Students will learn to develop and implement customer service strategies using systems, technologies and communication skills to serve diverse customer needs. By evaluating elements of customer service culture and delivery, students will understand standards of service excellence, causes of service breakdowns and service recovery techniques.

Credits: 3 Lecture: 3

BA 188 - SPECIAL STUDIES: BUSINESS

Engages students with projects from local businesses in the areas of accounting, marketing, management and operations. Recommended preparation: completion of most Level I and Level II classes from the AAS degree. Instructor approval required.

Credits: 1 to 3

BA 199 - SELECTED TOPICS: BUSINESS

Offers selected topics of study through workshop and independent study formats. Provides opportunities for students to investigate topics of interest beyond what is covered in current degrees. Instructor approval required.

Credits: 1 to 5

BA 206 - MANAGEMENT FUNDAMENTALS I

Introduces students to the theory and vocabulary of management in a business setting. All of the major theoretical foundations for understanding individual and group behavior and leadership are reviewed in a lecture and discussion instructional format. Recommended preparation: BA 101.

Credits: 4 Lecture: 4

BA 207 - MANAGEMENT FUNDAMENTALS II

Covers the scope of activities and roles required to be an effective manager. Applying individual and group behavior and leadership theories, and exploring the critical skills of self-management, communication, logical thinking and team building. The major functional areas of management are examined in depth through the exploration of practical applications. Case study analysis and discussion are used extensively as the instructional methods. Recommended preparation: BA 206.

Credits: 4 Lecture: 4

BA 211 - FINANCIAL ACCOUNTING I

Introduces financial accounting theory, including the accounting cycle, recording transactions, financial analysis and reporting corporate financial information in accordance with generally accepted accounting principles. BA 111, 112, and 113 are required for AAS accounting specialization. Recommended preparation: MTH 060.

Credits: 4 Lecture: 4

BA 212 - FINANCIAL ACCOUNTING II

Continues the presentation of fundamental accounting issues begun in BA 211, with emphasis on corporate investing and financing activities and preparation of the statement of cash flows. Recommended preparation: BA 211.

Credits: 4 Lecture: 4

BA 213 - MANAGERIAL ACCOUNTING

Introduces managerial accounting theory, including cost-volume-profit analysis, product costing, budgeting, capital investing and cost management in manufacturing and service organizations. Recommended preparation: BA 212.

Credits: 4 Lecture: 4

BA 214 - BUSINESS COMMUNICATIONS

Introduces students to prevailing practices of written and oral communication in business organizations, with special attention to audience-adaptation strategies and developing a modern communication style. Includes instruction in formatting techniques, document design, graphics, research strategies and documentation. Recommended preparation: WR 065.

Credits: 3 Lecture: 3

BA 217 - ACCOUNTING FUNDAMENTALS

Introduces non-business majors to the accounting process and the informational reports it generates. Topics include the analyzing, recording, summarizing and reporting of business transactions, with a special focus on using accounting reports to make informed business decisions. This course is for non-business majors and no previous accounting is required. Recommended preparation: MTH 060.

Credits: 4 Lecture: 4

BA 218 - PERSONAL FINANCE

Gives students skills in basic money management. Investigates spending habits and develops personal and family financial budgets. Also focuses on dealing with financial institutions, applying for loans and establishing personal credit. Develops understanding of managing major household expenses. Develops skill in renting, buying and selling residential property. Also focuses on buying and leasing transportation, personal income taxes and different types of insurance. Covers scope and planning of investments and retirement planning. Students develop understanding of different investments including mutual funds, stock market, real estate as an investment and Social Security. Also covers wills and trusts.

Credits: 3 Lecture: 3

BA 220 - BUSINESS ANALYSIS AND BUDGETING

This course is designed to develop mathematical analytical skills in performing the daily tasks of a manager or salesperson. The course has a threefold focus: strengthening understanding and use of business terminology in regard to financial information; development of spreadsheet skills in evaluating the costing, pricing and financing strategies of products and services; and development of skills in evaluating and making budgeting, financial and investment decisions. This is a hands-on, skills-oriented course. Prerequisites: BA 104, CIS 131, BA 112. Recommended preparation: CIS 125E.

Credits: 4 Lecture: 3 Other: 2

BA 222 - BUSINESS FINANCE

Targets role of financial management in business and provides understanding of the effect of finance on business decisions. The course covers financial forecasting, capital budgeting and risk, financial institutions, securities markets, the investment process and working capital management. Prerequisites: BA 104 and either BA 113 or BA 212.

Credits: 4 Lecture: 4

BA 223 - MARKETING PRINCIPLES I

Develops skills in understanding and developing strategies in the marketing environment. Covers principles and techniques of market research, consumer behavior, product development, pricing, distribution and promotion. Establishes basis for creating a marketing plan. Recommended preparation: BA 101.

Credits: 4 Lecture: 4

BA 224 - HUMAN RESOURCES MANAGEMENT

Covers principles and techniques of human resources management. Includes the following topics: hiring practices, orientation, training, job enrichment, motivation and performance review. Covers wage policies, benefits programs and how to comply with a myriad of legal requirements. Recommended preparation: BA 206.

Credits: 4 Lecture: 4

BA 226 - BUSINESS LAW I

Introduces general concepts, principles and individual conduct of business. The overview of law presented by this course introduces the general concepts of contract law, which forms the foundation for the general conduct of business. Covers contract formation, dispute resolution, warranties, legal forms of business, and credit and collections. Emphasizes managing risk in the business environment. Recommended preparation: sophomore standing, WR 121, BA 101.

Credits: 4 Lecture: 4

BA 228 - COMPUTER ACCOUNTING APPLICATIONS

Introduces double-entry, fully-integrated computerized accounting software on the microcomputer. Students will get hands-on experience recording a variety of business transactions and preparing financial statements using the software. Recommended preparation: CIS 131 and either BA 111 or BA 211.

Credits: 3 Lecture: 2 Other: 2

BA 229 - QUICKBOOKS

Introduces students to QuickBooks accounting software. It is designed to give students the basic skills to effectively use QuickBooks and to reinforce the concepts students learned in their first accounting course. Students will get hands-on experience using the software, including recording a variety of accounting transactions and creating financial statements and other financial reports useful in making business decisions. Recommended preparation: CIS 131 and either BA 111 or BA 211.

Credits: 3 Lecture: 2 Lab: 2

BA 232 - BRANDING

Branding is a fundamental element of a competitive marketing strategy. Students will develop skills to conduct the necessary research for a firm to develop a brand identity and brand strategy. This will include the writing of a brand brief, the use of typography and color theory as well as creating compelling content for various touch points that reinforce the brand. Recommended preparation: BA 223.

Credits: 4 Lecture: 4

BA 233 - INTERNET MARKETING

Building on the marketing concepts from BA 223, this course develops marketing skills in pricing, promotion and distribution strategies while using the internet. Design and content development for email, website and social media marketing based in an understanding of consumer behavior will also be covered. Additional topics include site optimization along with how to use analytic tools that will determine effectiveness of internet marketing efforts. Note: this course does not cover HTML programming. Recommended preparation: BA 223.

Credits: 4 Lecture: 4

BA 237 - MARKETING RESEARCH

Effective marketing research is essential to modern business development. The marketing concept is, by definition, customer driven. Without an accurate and complete assessment of customer needs and wants, business risk is increased. Marketing research has become the driving force of business excellence in the 21st century. This course will explore the best methodologies for confirming strategic initiatives before committing tactical assets. Marketing research provides the critical and essential input for crafting a strategy and developing a business model. Recommended preparation: BA 223.

Credits: 4 Lecture: 4

BA 239 - ADVERTISING

This course develops understanding of the principles and techniques necessary to create an advertising campaign for a business with a

focus on the promotion component of the marketing mix. Examines the ways in which advertising fits into the scheme of business marketing. Also discusses advertising and its relationships with other promotional activities. Includes a thorough look into the use of different media choices and the planning of advertising campaigns. Also covers some of the basics regarding the design of commercials and printed copy. Includes work on real-life advertising campaigns. Recommended preparation: BA 223. Credits: 4 Lecture: 4

BA 249 - RETAILING

Develops skills in understanding and developing strategies in the retail environment. Examines the retail industry including store location, layout, display, merchandise selection, inventory and operational controls and promotion. Includes tours of local retail stores. Recommended preparation: BA 223.

Credits: 4 Lecture: 4

BA 250 - ENTREPRENEURSHIP

This course provides a solid foundation in entrepreneurship and small business management. Students will learn about the challenges facing entrepreneurship today, business management strategies, guerrilla marketing for success, the importance of financial planning and how to effectively present an elevator pitch. Additionally, students will learn about the various legal forms of business ownership, sources of financing a business, and E-Commerce. A balance between the practical learning and "real life" situations will be followed throughout the course.

Credits: 4 Lecture: 4

BA 253 - BUSINESS PLAN ELEMENTS

This course focuses on the elements of a business plan: the feasibility analysis, marketing plan, management plan, operations, pro forma financials and how to present the plan.

Credits: 4 Lecture: 4

BA 254 - BUSINESS STRATEGIES

This course is an in depth look at business strategies covering management, financials, operations and selling with a focus on application.

Credits: 4 Lecture: 4

BA 261 - CONSUMER BEHAVIOR

This course explores the determinants of consumer buying behavior and the process consumers use to make buying decisions. Study includes psychological and sociological principles and their impact on purchasing behaviors. Understanding of these behaviors and the purchase process are used to help design marketing strategies. Recommended preparation: BA 223.

Credits: 4 Lecture: 4

BA 271 - PRODUCT DEVELOPMENT PROCESS

This course covers the product development process from cradle to grave.

Credits: 4 Lecture: 4

BA 272 - PRODUCT DEVELOPMENT STRATEGIES

This course is an in depth look at each of the phases of the product development process with a focus on application.

Credits: 4 Lecture: 4

BA 280 - CO-OP WORK EXPERIENCE BUSINESS

Provides work learning credit for student employment in fields pertaining to the business curriculum. Credit is given based upon a total workload of 100 hours per term and completion of learning objectives. Learning experience coordinated with student's supervisor. May be repeated once. Instructor approval required.

Credits: 1 to 3

BA 285 - BUSINESS HUMAN RELATIONS

Examines the sociological and psychological aspects of the workplace with practical applications. Based on the premise that the practice of sound human relations is essential to success in any context. Group exercises, discussion and lecture are the pedagogies used, in that order of importance. Recommended preparation: WR 121.

Credits: 3 Lecture: 3

BA 286 - MANAGING BUSINESS PROCESSES

Introductory course in understanding and managing business processes. Develops understanding of general concepts and principles of process management. Includes implementation procedures and specific tools used in analyzing processes, uncovering problems and finding solutions to those problems. Recommended preparation: BA 101 and BA 206.

Credits: 4 Lecture: 4

BA 290 - BUSINESS SEMINAR

BA 290 is the capstone course for all specializations in the Associate of Applied Science degree in Business. It is an opportunity for the student to demonstrate all they have learned in the areas of accounting, management, finance, marketing and operations. It also allows for the opportunity to demonstrate communication and technology skills. The end result will be a great sample of work for the portfolio that students can use in seeking employment or advancement. This is a hands-on, skills-oriented course. Prerequisites: BA 113, BA 206, BA 220, BA 223.

Credits: 3 Lecture: 3

CHEMISTRY

CH 104 - INTRODUCTION TO CHEMISTRY I

Introduces basic principles of general chemistry, including atomic theory, chemical formulas and equations, bonding, stoichiometry, acid/base chemistry and solutions. Supporting laboratory work included. Prerequisite: MTH 095 or MTH 111 or higher, or math placement test score that places the student into MTH 111 or above. Not designed for science majors.

Credits: 5 Lecture: 4 Lab: 3

CH 105 - INTRODUCTION TO CHEMISTRY II

Builds on concepts from CH 104 introducing basic principles of general and organic chemistry, including bonding in carbon compounds, equilibrium, stereochemistry and functional group chemistry. Supporting laboratory work included. Prerequisite: CH 104 or equivalent, passed with a "C" or better. Not designed for science majors.

Credits: 5 Lecture: 4 Lab: 3

CH 106 - INTRODUCTION TO CHEMISTRY III

Builds on concepts from CH 105 introducing basic principles of general and biochemistry, including consideration of protein, carbohydrate and lipid structure and metabolism, bioenergetics, enzymes and nucleic acid chemistry. Prerequisite: CH 105 or equivalent, completed with a "C" or better.

Credits: 5 Lecture: 4 Lab: 3

CH 188 - SPECIAL STUDIES: CHEMISTRY

Explores topics of current interest in the discipline.

Credits: 1 to 4

CH 221 - GENERAL CHEMISTRY I

Explores experimental and theoretical principles of chemistry including matter, measurement, atomic structure, periodicity, stoichiometry, solutions, molecular structure, bonding, oxidation/reduction and thermochemistry. The course is algebra-based and includes supporting laboratory work. This course is appropriate for science and engineering majors. High school chemistry is recommended. Prerequisite: MTH 111, 112, 113, or 251 or higher or math placement test score that places the student above MTH 111.

Credits: 5 Lecture: 4 Lab: 3

CH 222 - GENERAL CHEMISTRY II

This course builds on concepts from CH 221, by exploring experimental and theoretical principles of chemistry including gases, liquids, solids, solutions, kinetics, equilibrium, acids and bases. The course is algebra-based and includes supporting laboratory work. This course is appropriate for science and engineering majors. Prerequisite: CH 221 with a "C" or better.

Credits: 5 Lecture: 4 Lab: 3

CH 223 - GENERAL CHEMISTRY III

This course builds on concepts from CH 222 by exploring experimental and theoretical principles of chemistry including solubility equilibria, acidbase equilibria, electrochemistry, nuclear chemistry, metals and organic compounds. The course is algebra-based and includes supporting laboratory work. This course is appropriate for science and engineering majors. Prerequisite: CH 222 with a "C" or better.

Credits: 5 Lecture: 4 Lab: 3

CH 288 - SPECIAL STUDIES: CHEMISTRY

Explores topics of current interest in the discipline.

Credits: 1 to 4

CHINESE

CHN 101 - MANDARIN CHINESE I

The first course of a three-course sequence in introductory Mandarin Chinese language and culture class. The course begins with an introduction to the sound system of Mandarin Chinese and moves on to basic skills in listening, speaking, reading and writing. The course will focus particular attention to pronunciation and students will begin to identify and write a limited number of Chinese characters.

Credits: 4 Lecture: 4

CHN 102 - MANDARIN CHINESE II

The second course of a three-course sequence in introductory Mandarin Chinese language and culture class. The course aims at further developing all fundamental language skills (listening, speaking, reading and writing) in communicative context. Many aspects of everyday Chinese culture will be introduced to expand cultural awareness and understanding. In addition to improving pronunciation, students will learn to read and write short passages utilizing approximately 100 - 150 characters about simple everyday activities. Recommended preparation: CHN 101 or instructor approval.

Credits: 4 Lecture: 4

CHN 103 - MANDARIN CHINESE III

The third course of three-course sequence in introductory Mandarin Chinese language and culture class. The course aims at expanding on effective communicative skills in both the written and spoken language and understanding the practices and products of native Chinese culture. The course will focus particular attention to handling uncomplicated social situations and will expand on writing and reading to meet a number of practical everyday needs. Recommended preparation: CHN 102 or instructor approval.

Credits: 4 Lecture: 4

CHN 110 - CHINESE CHARACTERS

An introductory course on Chinese Simplified Characters, with an emphasis on the recognition, writing and etymology of said characters. This course will help the beginning student of Chinese, or those who have an interest in studying Chinese characters, learn to recognize many of the most common characters, write those characters using correct stroke order and learn the etymology of many of those characters. Students will also gain an understanding of the importance of Chinese characters in Chinese culture, and Chinese character's influence in Asia in general. Note: This is not a calligraphy course. Recommended preparation: CHN 101.

Credits: 4 Lecture: 4

CHN 141 - CHINESE CULTURE THROUGH FILM

Introduction to the history, politics, society and economy of China through viewing and analyzing cinema. Examines how traditional Asian visual arts and centuries-old cultural tradition influenced filmmakers. No background in Chinese languages is required.

Credits: 4 Lecture: 4

CHN 201 - SECOND YEAR MANDARIN CHINESE I

The first course of a three-course sequence in intermediate Mandarin Chinese language and culture. This course will focus on effective communication in the Mandarin Chinese language, emphasizing both the written and spoken language, as well as an understanding of the practices and products of Chinese culture. Particular attention will be given to exploring the relationship between Chinese language, literature, philosophy and culture. Recommended preparation: CHN 103 and CHN 110 or instructor approval.

Credits: 4 Lecture: 4

CHN 202 - SECOND YEAR MANDARIN CHINESE II

The second course of a three-course sequence in intermediate Mandarin Chinese language and culture. This course will focus on effective communication in the Mandarin Chinese language, emphasizing both the written and spoken language, as well as an understanding of the practices and products of Chinese culture. Particular attention will be given to exploring the relationship between Chinese language, literature, philosophy and culture. Recommended preparation: CHN 201 or instructor approval.

Credits: 4 Lecture: 4

CHN 203 - SECOND YEAR MANDARIN CHINESE III

The third course of a three-course sequence in intermediate Mandarin Chinese language and culture. This course will focus on effective communication in the Mandarin Chinese language, emphasizing both the written and spoken language, as well as an understanding of the practices and products of Chinese culture. Particular attention will be given to exploring the relationship between Chinese language, literature, philosophy and culture. Recommended preparation: CHN 202 or instructor approval.

Credits: 4 Lecture: 4

CHN 298 - INDEPENDENT STUDY: CHINESE

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

COMPUTER & INFORMATION SYSTEMS

CIS 010 - COMPUTER KEYBOARDING

Develops touch keystroking skills for persons who will be using computer terminals for information processing. Emphasis on proper techniques, speed and accuracy development on alphabetic keyboard and numeric keypad. For non-office administration majors. Pass/No pass grading.

Credits: 1 Other: 2

CIS 070 - INTRODUCTION TO COMPUTERS: WINDOWS

Students will gain confidence in the use of personal computers and the Windows operating system. Topics include fundamental computer terminology, introductory use of a graphic user interface including mouse usage, windows, menus, icons and dialog boxes. Also included are file management and an introduction to word processing, web browsing and email. Pass/No pass grading.

Credits: 2 Lecture: 1 Other: 2

CIS 099 - SELECTED TOPICS: COMPUTER AND INFORMATION SYSTEMS

This course is in development.

Credits: 1 to 4

CIS 120 - COMPUTER CONCEPTS

Follows the Internet and Computing Core Certificate (IC3) national standard for digital literacy used at numerous colleges and universities across the country as well as industry. The course objectives are broken down into three modules: computer fundamentals, key applications and living online. This class provides students with the knowledge and skills needed to use computers successfully at the college level. Recommended preparation: CIS 010, CIS 070 or equivalent computer skills.

Credits: 4 Lecture: 3 Other: 2

CIS 122 - INTRODUCTION TO PROGRAMMING

Introduction to computer programming for those with little or no programming experience. Provides a strong, fundamental understanding of Visual Basic.Net. Introduces students to elementary programming concepts of algorithm design, control structures and user interface. Students will use the basic constructs of programming including constants, variables, expressions and control structures for sequential, iterative and decision processing to solve a variety of problems. Recommended preparation: CIS 120 and CIS 131.

Credits: 4 Lecture: 3 Other: 2

CIS 125A - ACCESS

Introduction to the most popular desktop database software, Microsoft Access. This course will help students prepare for the latest Microsoft Office certification for Access (#77-885) which helps students validate the skills industries require. The course teaches users how to create and modify database tables, forms, queries and reports. The focus is on optimizing the databases for efficient data entry and generating comprehensive reports. Database design issues are discussed but not emphasized in this course. Recommended preparation: CIS 131.

Credits: 4 Lecture: 3 Other: 2

CIS 125A1 - AUTOCAD 1

First course in a two-term sequence introducing AutoCAD software as a drafting tool. Instruction will be given in file handling, basic command function, drafting techniques, presentation and plotting. Architectural and mechanical applications will be used in lab exercises to demonstrate AutoCAD commands. Work will be completed with AutoCAD. Recommended preparation or recommended to be taken with: CIS 120.

Credits: 4 Lecture: 3 Other: 2

CIS 125A2 - AUTOCAD 2

Second course in a two-term sequence covering intermediate AutoCAD commands including dimension styles, templates, CAD standards, attribute blocks, attribute extraction, external references, object linking/embedding, advanced drawing set-up and plotting, and the program parameter file. Work will be completed with AutoCAD. Recommended preparation: CIS 125A1.

Credits: 4 Lecture: 3 Other: 2

CIS 125DW - INTRODUCTION TO DREAMWEAVER

Explores the skills necessary to become an Adobe Certified Associate (ACA) in web authoring using Adobe Dreamweaver. Outcomes include an overall understanding of Dreamweaver as well as setting project requirements and identifying, building and evaluating rich communication elements. Recommended preparation: CIS 120.

Credits: 4 Lecture: 3 Other: 2

CIS 125E - EXCEL

Covers intermediate and advanced features of Excel 2010 such as lists, pivot tables, working with multiple worksheets, templates, what-if-analysis, data tables, advanced formulas and functions, goal seek, solver, consolidating and importing data. Students will apply these Excel features to create and revise business worksheets. Recommended preparation: CIS 120, CIS 131.

Credits: 4 Lecture: 3 Other: 2

CIS 125FL - INTRODUCTION TO FLASH

Explores the skills necessary to become an Adobe Certified Associate (ACA) in interactive media using Adobe Flash. Outcomes include an overall understanding of Flash as well as setting project requirements and identifying, building and evaluating rich media elements. Recommended preparation: CIS 120.

Credits: 4 Lecture: 3 Other: 2

CIS 125G - PHOTOSHOP

Covers the learning objectives as outlined by Adobe to become an Adobe Certified Associate (ACA) in visual communication using Adobe Photoshop. Outcomes include an overall understanding of Photoshop as well as setting project requirements, identifying design elements, manipulating images and evaluating digital images. Recommended preparation: CIS 120.

Credits: 4 Lecture: 3 Other: 2

CIS 125I - ADOBE ILLUSTRATOR

This class is consistent with objectives for the Adobe Certified Associate (ACA) in graphic design & illustration and will provide instruction in drawing, editing and layout techniques using Adobe Illustrator. Students are introduced to the basic illustrator tools, composition rules and complete vector-based projects such as simple illustrations, logotype, posters and postcards. Recommended preparation: CIS 120.

Credits: 4 Lecture: 3 Other: 2

CIS 125V - VISIO

This course is an introduction to Microsoft Visio, a vector-based illustration tool. Students will learn fundamental skills while creating several types of basic diagrams including workflows, flowcharts, organizational charts, directional maps, network and floor plans. Recommended preparation: CIS 120.

Credits: 4 Lecture: 3 Other: 2

CIS 125WA - WEB ANIMATION

Explores the tools and technologies used to create vector and bitmap web animations, as well as how to create interactivity in rich web content. Class topics include: keyframe and path-based motion graphics, vector vs. bitmap images, programming interactivity for rollover buttons, special effects and sound. The course will also cover the principles of two dimension animation and its uses on the web. Students will make effective computer animations that can be marketed and delivered through the web. Recommended preparation: CIS 120.

Credits: 4 Lecture: 3 Other: 2

CIS 131 - SOFTWARE APPLICATIONS

Outcomes focus on learning Word and Excel competencies as defined by the industry standard Microsoft Office Specialist (MOS) certification Prerequisite: CIS 120 or COCC Computer Competency. Recommended preparation: MTH 060, MTH 085 or BA 104.

Credits: 4 Lecture: 3 Other: 2

CIS 133JS - INTRODUCTION TO JAVASCRIPT

Expands on existing web development skills by introducing JavaScript for client-side scripting. Students will learn JavaScript language/syntax, functions, objects, arrays and event handling as they are used for dynamic page content form validation, user interaction and navigation menus. Prerequisite: CIS 122. Recommended preparation: CIS 195.

Credits: 4 Lecture: 3 Other: 2

CIS 133P - INTRODUCTION TO PHP

Covers programming PHP with MySQL. Examines basic techniques of problem-solving, PHP language syntax, using PHP with MySQL, and designing dynamic webpages. Students learn basic program design and construction techniques. Prerequisite: CIS 122 or instructor approval. Recommended preparation: CIS 195 and CIS135DB.

Credits: 4 Lecture: 3 Other: 2

CIS 135A1 - AUTODESK REVIT 1

Introduces fundamental aspects of architectural drafting with AutoDESK Revit software. Covers drafting of residential and light commercial buildings, sections and elevations, schedules, design layouts, details and working drawings. Recommended preparation: CIS 125A1.

Credits: 4 Lecture: 3 Other: 2

CIS 135A2 - AUTODESK REVIT 2

Continues with AutoDESK Revit, covering construction drawing sets, commercial planning, residential remodeling, drawing details and drawing production. Term culminates with targeted project covering aspects studied in Revit. Recommended preparation: CIS 135A1.

Credits: 4 Lecture: 3 Other: 2

CIS 135C1 - AUTOCAD CIVIL 3D

Students will learn basic civil drafting theory along with developing drawings that include plats, related civil infrastructure, public utilities, contours and roads. Work will be completed with AutoCAD Civil 3D. Recommended preparation: CIS 125A2.

Credits: 4 Lecture: 3 Other: 2

CIS 135DB - DATABASE THEORY/SQL

An introductory course of database concepts. This course includes discussion of the parts of a database and database management systems. Other topics include database design theory, the concept of normalization and understanding data models. Introduces SQL. Students will be introduced to several of the most popular database management systems such as Access, Microsoft SQL Server and MySQL. Recommended preparation: CIS 120 or IC3 certification and CIS 131.

Credits: 4 Lecture: 3 Other: 2

CIS 135S1 - SOLIDWORKS 1

This course is an introduction to engineering graphics as used for the communication of concepts in design and manufacturing. Practical applications using solid modeling software will be used to capture design intent and to generate engineering drawings. Adherence to industrial standards and formats will be maintained.

Credits: 4 Lecture: 3 Other: 2

CIS 135S2 - SOLIDWORKS 2

This course continues the discussion of engineering graphics as used for the communication of concepts in design and manufacturing. Practical applications using solid modeling software will be used in comprehensive assemblies, working drawing sets, sheet metal modeling, weldments, content reuse, functional design and assembly simulation. Adherence to industrial standards and formats will be maintained.

Credits: 4 Lecture: 3 Other: 2

CIS 140 - A+ ESSENTIALS I

A+ Essentials is the starting point for a career in IT. The course outcomes cover the fundamentals of computer technology, installation and configuration of PCs, laptops and related hardware, and basic networking concepts. The course also prepares students to pass the vendor neutral CompTIA A+ Essentials certification exam (220-901). CIS 140 and 145 utilize one textbook. To become A+ certified requires you to pass both certification exams. Recommended preparation: CIS 120. Corequisite: CIS 145.

Credits: 4 Lecture: 3 Other: 2

CIS 145 - A+ ESSENTIALS II

The course prepares students with the skills and knowledge associated with the CompTlAs A+ 220-902 outcomes. The curriculum covers the skills required to install and configure PC operating systems, as well as configuring common features (e.g. network connectivity and email) for mobile operating systems Android and Apple iOS. CIS 140 and CIS 145 utilize one textbook. To become A+ certified requires you to pass both certification exams. Recommended preparation: CIS 120. Corequisite: CIS 140.

Credits: 4 Lecture: 3 Other: 2

CIS 151C - CISCO INTERNETWORKING

First of a three-course sequence to prepare the student to take the Cisco Certified Network Associate (CCNA) certification exam. The class uses the Cisco Academy online curriculum, CCNA 5.0, Introduction to Networks. Students explore the TCP/IP and Open Systems Interconnect (OSI) models, local area networks (LANs), ethernet, cabling, topologies, configuring routers and switches, IPv4 and IPv6 addressing, subnetting, network standards and protocols. The lecture/lab environment allows the student the opportunity to practice skills learned throughout the term. Prerequisite: CIS 179 or Comptia Network + certification.

Credits: 4 Lecture: 3 Other: 2

CIS 152C - CISCO ROUTER CONFIGURATION

Second of a three-course sequence to prepare the student to take the Cisco Certified Network Associate (CCNA) certification exam. Cisco Routing and Switching implements the Cisco Academy online curriculum, CCNA 5.0, Routing and Switching Essentials, developed by Cisco Systems experts. Explores switch VLANs, trunks and Inter-VLAN routing, 1Pv4 and 1Pv6 static and dynamic routing, OSPFv2 and OSPFv3, DHCP and DNS for 1Pv4 and 1Pv6, NAT, and access-lists for 1Pv4 and 1Pv6. The lecture/lab environment allows the student the opportunity to practice skills learned throughout the term. Prerequisite: CIS 151C.

Credits: 4 Lecture: 3 Other: 2

CIS 154C - CISCO VLAN AND WAN TECHNOLOGIES

Third of a three-course sequence to prepare the student to take the Cisco Certified Network Associate (CCNA) certification exam. Cisco Scaling and Connecting Networks implements the Cisco Academy online curricula, CCNA 5.0, Scaling Networks and Connecting Networks. Students explore WAN technologies such as FrameRelay, PPP, and PPPoE, enhanced switching technologies, Etherchannel, multi-area OSPF and EIGRP, and network monitoring with Syslog, SNMP, and NetFlow. The lecture/lab environment allows the student the opportunity to practice skills learned throughout the term. Prerequisite: CIS 152C.

Credits: 4 Lecture: 3 Other: 2

CIS 178 - INTERNET IN DEPTH

Introduces the concepts and technologies of the internet. The course explores a wide variety of internet protocols and examines the history and infrastructure of the internet. Students will learn about web applications, e-commerce, social media and how to create and publish a website with common design tools. Topics include World Wide Web, secure use of the internet, web browser and email basics, searching the web, e-learning resources, mass communication and real-time communication on the internet. Recommended preparation: CIS 120.

Credits: 4 Lecture: 3 Other: 2

CIS 179 - NETWORKING ESSENTIALS

The course covers network technologies, installation and configuration, media and topologies, management and security. The outcomes prepare students for job roles, which include network administrator, network technician, network installer, help desk technician and IT cable installer and the CompTIA N10-005 certification exam. Prerequisites: CIS 140, CIS145.

Credits: 4 Lecture: 3 Other: 2

CIS 188 - SPECIAL STUDIES I

Explores topics of current interest in the discipline.

Credits: 1 to 4

CIS 195 - WEB DEVELOPMENT I

Explores the use of development tools, HTML and CSS to create valid websites for a variety of topics. Students will practice site planning, design, navigation, usability and publishing. Recommended preparation: CIS 120.

Credits: 4 Lecture: 3 Other: 2

CIS 197 - CMS WEB DEVELOPMENT: WORDPRESS

Examines the basics of database-driven websites created using WordPress content management system (CMS), an extremely flexible and scalable technology used for making websites that need database functionality and regular content updates. Students learn through hands-on projects how to install, configure and manage websites connected to a database. Students will learn how to create rich content for websites that offer both functionality and scalability using WordPress. Other content management systems will be explored. Recommended preparation: CIS 195.

Credits: 4 Lecture: 3 Other: 2

CIS 198 - COMPUTER AND INFORMATION SYSTEMS PROJECTS

Students are placed in local businesses working on small projects that a local business might need. Student is responsible for project, documentation and users' manuals, if necessary. Student is sponsored by a CIS instructor. Recommended preparation: CIS 120, CIS 131.

Credits: 3 Other: 9

CIS 199 - SELECTED TOPICS: COMPUTER AND INFORMATION SYSTEMS

Reserved for courses that cover topics of general interest, projects in computer science and experimental courses. Instructor approval required. Credits: 1 to 7

CIS 233P - WEB PROGRAMMING

Introduces students to techniques used to create interactive, dynamic content. Students will design interactive user interfaces (using JavaScript and XML) which will interact with custom databases residing on a server (using PHP and MySQL). The course will explore the concepts of

event-driven programming to create interactive interfaces using dynamic content. Students will write server-side scripts, design custom databases to both store and provide access to content. The course will conclude with a final project where students will design their own dynamic websites. Recommended preparation: CIS 133JS. Prerequisite: CIS 133P.

Credits: 4 Lecture: 3 Other: 2

CIS 235 - IT IN BUSINESS

Uses advanced software features in Word, Excel, PowerPoint and Access to solve and analyze business problems using integration of the applications in a business environment. Recommended preparation: CIS 120 and CIS 131.

Credits: 4 Lecture: 3 Other: 2

CIS 244 - INFORMATION SYSTEMS ANALYSIS

Provides broad overview of the skills necessary for a systems analyst, consultant or project manager to work as an independent contractor or as part of an IT department. Topics include information systems concepts and tools, goal setting, project management, working in teams, documentation and communication. Recommended preparation: CIS 120 and CIS 131.

Credits: 4 Lecture: 3 Other: 2

CIS 276 - ADVANCED SQL

Focuses on design, development and implementation of SQL programming for all types of relational database applications including client/server and internet databases. The course introduces students to the procedural language used to extend SQL in a programmatic manner. Students will learn to write complicated interactive and embedded SQL statements. Emphasis will be on using Microsoft SQL server. Recommended preparation: CIS 122, CIS 135DB.

Credits: 4 Lecture: 3 Other: 2

CIS 279L - LINUX+

This course introduces the Unix operating system using Linux. It follows the CompTIA Linux + exam outcomes and competencies and is therefore 'vendor neutral'. It is designed as an introductory course to the Linux operating system but previous experience with other PC operating systems is expected. The class teaches the basics of the Unix operating system from a command-line perspective including installation, management, configuration, security, documentation and hardware. Recommended preparation: CIS 120.

Credits: 4 Lecture: 3 Other: 2

CIS 279SC - WINDOWS SERVER CONFIGURATION

Prepares the student to plan and begin implementing the Microsoft server operating system in an enterprise environment. It includes the outcomes and hands-on experience required to build the knowledge and skills needed to pass the associated Microsoft IT professional certification. Prerequisite: CIS 179 or Comptia Network+ certification.

Credits: 4 Lecture: 3 Other: 2

CIS 279SE - SECURITY+

The course outcomes cover: network security, compliance and operational security, threats and vulnerabilities, application, data and host security, access control and identity management and cryptography. The material prepares students to pass the CompTIA Security+ certification. Security+ is an international, vendor-neutral certification. Recommended preparation: CIS 279L. Prerequisite: CIS 179.

Credits: 4 Lecture: 3 Other: 2

CIS 279SM - WINDOWS SERVER MANAGEMENT

Prepares the student to manage, maintain and troubleshoot the Microsoft server operating system in an enterprise environment. It includes the outcomes and hands-on experience required to build the knowledge and skills needed to pass the associated Microsoft IT professional certification. Prerequisite: CIS 279SC.

Credits: 4 Lecture: 3 Other: 2

CIS 279SS - WINDOWS SERVER SERVICES

Prepares the student to plan, implement, maintain and troubleshoot Microsoft server operating system advanced services in an enterprise environment. It includes the outcomes and hands-on experience required to build the knowledge and skills needed to pass the associated Microsoft IT professional certification. Prerequisite: CIS 279SM.

Credits: 4 Lecture: 3 Other: 2

CIS 279WC - WINDOWS CLIENT

This course prepares the student to plan, implement and manage the Microsoft Windows operating system in an enterprise environment. It includes the outcomes and hands-on experience required to build the knowledge and skills needed to pass the associated Microsoft IT professional certification. Recommended preparation: CIS 179.

Credits: 4 Lecture: 3 Other: 2

CIS 280 - CO-OP WORK EXPERIENCE CIS

A learning strategy designed to enhance a student's knowledge, personal development, professional development and professional preparation by integrating academic study with practical experience. Students complete on-the-job training in a computer environment (a minimum of 33 clock hours of work for each credit hour earned). Instructor approval required.

Credits: 1 to 3

CIS 284 - CISCO CCNA SECURITY

Introduces security related issues and provides essential skills network administrators need in order to provide security for a computer network. Covers protective security technologies including TCP packet analysis, network device hardening, advanced firewall techniques, cryptography, intrusion prevention systems, LAN security, virtual private networks, network attacks and mitigation techniques and security policy planning. Prerequisite: CIS 154C or CCNA certification.

Credits: 4 Lecture: 3 Other: 2

CIS 284EH - ETHICAL HACKING

Using Linux operating system, this course will prepare the student in network penetration testing methodologies to help businesses discover and mitigate security weaknesses. Students will learn techniques such as: packet sniffing, port scanning, Google hacking, web application attacks, buffer overflow attacks, password attacks, exploits, the Metasploit framework, tunneling and port redirection and a wide variety of software security tools and methods. Prerequisite: CIS 279L.

Credits: 4 Lecture: 3 Other: 2

CIS 288 - SPECIAL STUDIES II

Explores topics of current interest in the discipline.

Credits: 1 to 4

CIS 295 - WEB DEVELOPMENT II

Expands on existing HTML/CSS skills and explores the process of making websites, particularly e-commerce sites for clients. Students will practice site planning, development, content management and client relations as they create, document and present a website project and portfolio. Topics include website design, search engine optimization, webpage usability, and responsive mobile web design. Recommended preparation: CIS 195.

Credits: 4 Lecture: 3 Other: 2

CIS 297 - CIS PROFESSIONAL CAPSTONE

This course addresses knowledge, skills and outcomes useful to IT professionals in a variety of disciplines. Students will explore and acquire job exploration skills, including interview skills, search skills and resume-building skills to optimize job market opportunities. An integrated approach is used to combine project design components relative to job goals and capstone activities to assist in entering the job market with an array of job and technical analysis and design skills. The CIS capstone course is expected to be taken in a degree-seeking student's last term. Prerequisite with concurrency: CIS 244.

Credits: 4 Lecture: 3 Other: 2

CIS 298 - INDEPENDENT STUDY: CIS

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

CIS 299 - SELECTED TOPICS: CIS

This course is in development.

Credits: 1 to 7

COMPUTER SCIENCE

CS 160 - COMPUTER SCIENCE ORIENTATION

Gives a broad overview of the discipline of computer science. Students learn about the foundations of computer science such as problem solving and algorithms, programming concepts and computer hardware. Students also research careers available in computer science, research pathways to computer careers and reflect on some of the influences computers have had and continue to have on society. Students also write programs in a variety of programming languages. Recommended preparation: CIS 120 and MTH 095 or instructor approval.

Credits: 4 Lecture: 3 Other: 2

CS 161 - COMPUTER SCIENCE I

Examines the nature of computer programming; includes discussion of a computer model, methods of problem solving and programming structures; information representation; algorithm construction; object-oriented design using Java. Prerequisites: MTH 112 or MTH 251. Recommended preparation: CS 160.

Credits: 4 Lecture: 3 Other: 2

CS 162 - COMPUTER SCIENCE II

CS 162 emphasizes the development of data structures, algorithm analysis, recursion and sorting. However we will also explore/review several basic programming constructs: inheritance, interfaces, exceptions, and files/streams. A strict emphasis will be placed on software engineering methods; proper program development and attention to program planning and documentation. Prerequisite: CS 161; Prerequisite with concurrency: MTH 231. Corequisite: MTH 231.

Credits: 4 Lecture: 3 Other: 2

CS 260 - DATA STRUCTURES

Covers general-purpose data structures and algorithms, software engineering of these structures, and the application of these engineering concepts to real world problems. Topics covered include managing complexity, complexity analysis, stacks, queues, lists, trees, heaps, hash tables, sets, maps, and graphs. Prerequisite: CS 162 and MTH 231.

Credits: 4 Lecture: 3 Other: 2

CRIMINAL JUSTICE

CJ 100 - SURVEY OF THE CRIMINAL JUSTICE SYSTEM

Introductory survey of the functional components of the U.S. criminal justice system. Includes law enforcement, the courts and corrections.

Credits: 3 Lecture: 3

CJ 101 - INTRODUCTION TO CRIMINOLOGY

Interdisciplinary approach to theoretical perspectives on the causes, treatment and prevention of crime.

Credits: 4 Lecture: 4

CJ 110 - LAW ENFORCEMENT

Surveys the roles and responsibilities of local, state and federal law enforcement agencies in American society. Looks at historical development, role concept and conflicts, professionalization, current enforcement practices and career opportunities.

Credits: 3 Lecture: 3

CJ 120 - JUDICIAL PROCESS

Examines the history and development of court systems and processes in the American justice system. Organization, administration and roles of the federal and state courts are examined, as well as distinctions between civil, criminal and appellate courts.

Credits: 3 Lecture: 3

CJ 123 - SPANISH FOR LAW ENFORCEMENT PERSONNEL

Designed for students who are interested or are currently enrolled in the Criminal Justice program as well as current criminal justice employees. Emphasizes important daily phrases that someone in the criminal justice fields may encounter. Students' basic skills in listening, reading, writing and speaking are developed as well as exposure to the culture of Spanish-speaking citizens and their customs that directly affect interaction with criminal justice professionals. Recommended preparation: SPAN 101.

Credits: 2 Lecture: 2

CJ 153 - ETHICAL ISSUES IN CRIMINAL JUSTICE

This course outlines various ethical systems and applies them to the individual's analysis and evaluation of ethical dilemmas, duties and responsibilities in the field of criminal justice. The student will explore his/her own ethical framework and decision making while learning to integrate the obligations to society and the codes of conduct prescribed by professional criminal justice organizations and agencies. An emphasis will be placed on the ethical and responsible use of discretion, authority and power as endowed by society.

Credits: 3 Lecture: 3

CJ 188 - SPECIAL STUDIES: CRIMINAL JUSTICE

Explores topics of current interest in the discipline. Instructor approval required.

Credits: 1 to 12

CJ 199 - SPECIAL TOPICS: CRIMINAL JUSTICE

Presents selected topics of study in criminal justice offered on a temporary or experimental basis.

Credits: 1 to 4

CJ 201 - INTRODUCTION TO JUVENILE JUSTICE

Introduces the historical reason for establishment of juvenile courts in the U.S.'s, current juvenile justice process and functions of various components within the system. Prevention, intervention and rehabilitation aspects are covered in terms of Oregon's juvenile court law, as well as potential alternatives for change.

Credits: 3 Lecture: 3

CJ 204 - CONTROVERSIES IN CRIMINAL JUSTICE

This course defines, describes and evaluates the crises and conflicts which face law enforcement agencies today. Topics include: use of force, police pursuits, recruitment and the death penalty.

Credits: 3 Lecture: 3

CJ 207 - SEMINAR IN CRIMINAL JUSTICE

Examines current controversial issues, questions and procedures within the criminal justice system.

Credits: 3 Lecture: 3

CJ 210 - CRIMINAL INVESTIGATION I

Examines history, fundamentals and scientific resources involved in criminal investigation. Emphasizes practical aspects of the investigator's approach to criminal acts, crime scene, gathering facts and information, seizing evidence, reporting the total investigation and presenting evidence within court.

Credits: 3 Lecture: 3

CJ 211 - CRIMINAL INVESTIGATION II

Reviews fundamental and scientific resources involved in criminal investigations. Examines in depth criminal investigation techniques and skills necessary to conduct investigations into the more serious and complex crimes.

Credits: 3 Lecture: 3

CJ 214 - CRIME, JUSTICE AND DIVERSITY

Takes an in-depth look at current research and theories of racial and ethnic discrimination within the U.S.'s criminal justice system. This course examines the best and most recent research on patterns of criminal behavior and victimization, police practices, court processing and sentencing, the death penalty and correctional programs, while making every effort to incorporate discussion of all major race groups found in

the United States. Additionally, this course will outline the current federal regulations regarding cultural competence in professional practice.

Credits: 4 Lecture: 4

CJ 220 - INTRODUCTION TO SUBSTANTIVE LAW

Examines basic concepts of substantive law and criminal procedural law. Explores effects of substantive laws upon the lives of American citizens through topics such as crimes involving property, fraud and deception, or against persons, state and public order.

Credits: 3 Lecture: 3

CJ 222 - SEARCH AND SEIZURE

Study of procedural aspects of criminal law, i.e., how criminal law is enforced and administered by agents of the criminal justice system. Emphasis on examining the law of arrest, searches and seizures and interrogation of suspects.

Credits: 3 Lecture: 3

CJ 230 - JUVENILE CORRECTIONS

Studies historical and contemporary perspectives on juvenile offenders, juvenile code and juvenile court procedures. Describes treatment programs and differences between adult and juvenile court procedures.

Credits: 3 Lecture: 3

CJ 234 - THE WORLD OF VIOLENT CRIMINALS

The World of Violent Criminals takes a scholarly, comprehensive and empirical examination of serial murder in the U.S. This course is intended for students interested in understanding multiple homicide, the nature of serial killing, the offenders and their victims. Students will be exposed to concepts and information that will help prepare them to understand society's most dangerous criminals.

Credits: 3 Lecture: 3

CJ 243 - DRUGS AND CRIME IN SOCIETY

Introduction to problems of substance abuse, including alcohol, in our society. Equips criminal justice, social service and other human service workers with increased awareness of today's drug technology and options for dealing with substance abusers.

Credits: 3 Lecture: 3

CJ 253 - CORRECTIONS

Focuses on historical background, current practices and contemporary issues within correctional processes, institutions and policies pertaining to offenders. Emphasizes the goals of corrections, including deterrence and rehabilitation and the role of local, state and federal corrections in the criminal justice system, including community corrections.

Credits: 4 Lecture: 4

CJ 280 - CO-OP WORK EXPERIENCE CRIMINAL JUSTICE

Provides an opportunity to work for a local agency in a field of criminal justice applying classroom theory with on-the-job experience. Learning experience will be coordinated with student's supervisor. Students must pass a criminal history check. Recommended preparation: sophomore standing, a minimum of 12 credit hours completed in criminal justice courses. Instructor approval required

Credits: 1 to 3

CJ 281 - CWE CRIMINAL JUSTICE II

CJ 281 provides a continuing opportunity to work for a local agency in a field of criminal justice with on the job experience. (See CJ 280) Instructor approval required. Prerequisite: CJ 280.

Credits: 2

CJ 282 - CWE CRIMINAL JUSTICE III

Provides a continuing opportunity to work for a local agency in a field of criminal justice with on the job experience (see CJ 280). Instructor approval required. Prequisite: CJ 281.

Credits: 2

CJ 298 - INDEPENDENT STUDY: CRIMINAL JUSTICE

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

CULINARY ARTS

CUL 090 - APPLIED MATH FOR CULINARY ARTS

In this course, students will learn mathematics critical to the discipline of Culinary Arts and Baking and Pastry Arts. The list of topics to be covered includes the following: metric system of measurement, unit conversion, yield testing and percentages, calculating food and beverage costs, recipe scale and conversions, and kitchen ratios. Also this course will include basic algebraic concepts with culinary applications, basic statistics and graphing, and graphing in a rectangular coordinate system. Most of the material within this course will be sourced from the course textbook; however, some material will be introduced in class in the form of labs and interactive learning activities that relate directly to the discipline. Instruction will be provided by the Mathematics department in cooperation with a Cascade Culinary Institute chef instructor. Prerequisite: MTH 020 with a "C" grade or above or placement exam score that places the student in MTH 060 or above.

Credits: 4 Lecture: 4

CUL 100 - WANT TO BE A CHEF?

This course serves as an introduction to the field of culinary arts. Students considering declaring either Culinary Arts or Baking and Pastry Arts as a major, or students taking courses to enhance their placement scores to enter the next Cascade Culinary Institute cohort start, will find that this course will enable them to experience an introduction to cooking with a demonstration-based class that covers the basics of cooking technique and flavor profiling. Students will "get a taste" of the restaurant industry, while learning the secrets of being a successful culinary professional.

Credits: 2 Other: 4

CUL 101 - INTRODUCTION TO CULINARY ARTS

Experience the basic theory and skill sets used throughout the field of culinary arts. Topics covered include the use of hand tools and equipment found in the professional kitchen, as well as the exploration of ingredients and their functions. Students will gain a working knowledge of the fundamentals of kitchen operations, basic knife skills, an overview of stock, sauce and soup preparation; and coverage of the primary dry heat, moist heat and combination heat cooking methods. Students will also taste and evaluate products they create in class to enhance their understanding of the course material.

Credits: 4 Other: 8

CUL 102 - FOOD SAFETY AND SANITATION

This course enables the student to implement and uphold national food and safety standards. The primary focus of the course is to highlight what causes foodborne illnesses and how to prevent them. Students will learn how to handle foodborne illness outbreaks and emergencies. This class is the basis for any job in the hospitality industry. Students will complete the National Restaurant Association Educational Foundation (NRAEF) ServSafe final examination and receive a certificate as part of this course.

Credits: 2 Lecture: 2

CUL 110 - CULINARY FOUNDATIONS I

Learn the history of the culinary industry, nomenclature, equipment, kitchen operations, basic knife skills, cooking methods and ratios and techniques in contrast to recipe usage. Learn about and produce stocks and soups. Prerequisites with concurrency: CUL 090, CUL 102 and either WR 121 or BA 214.

Credits: 4 Other: 8

CUL 140 - CULINARY FOUNDATIONS II

Execute classical knife cuts at an accelerated rate with increased accuracy. Exposure to advanced terminology, flavor profiling and development, and ratio usage will serve as themes within this course. Emphasis will be placed upon food science principles and how they relate with the systematic process of the primary cooking techniques, station organization, workflow and overall time management. Proper use of commercial equipment and understanding of ingredients, measurement, formulas and building individual confidence within a professional kitchen will aid in constructing a sound foundation of basic skills. Competency-based learning activities include the preparation of classical mother

sauces, contemporary sauces, vegetables, grains and eggs. Sanitation and safety, professionalism, organization and the competency-based learning activities serve as the primary function of the student's educational experience. Prerequisite: CUL 110.

Credits: 4 Other: 8

CUL 170 - CULINARY FOUNDATIONS III

This course builds on the techniques and principles demonstrated in both the Culinary Foundations I and II courses. Basic knife skills will continue to be exercised as an integrated learning activity within each competency. Within this course, knife skills and cooking technique at a repetitive level is designed to build student confidence and skill via repetition. Utilization of sound step-by-step processes as it relates to the primary techniques will be highly emphasized within this course. Flavor profiling and pairing are further discussed and applied. Students will have the opportunity to develop skills in the identification, butchery and fabrication used in cooking of a variety of meat, poultry and seafood products. Small sauce production and the preparation of vegetables, grains, legumes and pastas are emphasized within this course. Students will apply modern composition and presentation techniques utilized in the restaurant industry. Prerequisite: CUL 140.

Credits: 4 Other: 8

CUL 180 - MODERN GARDE MANGER

Preparation of classical and modern cold food preparations, salads or other smaller plates. Within the context of this course, garde manger represents an introduction to the cold kitchen. Students will learn how to prepare canapés, hot and cold hors d'oeuvres, appetizers, salads, sandwiches and a diversity of forcemeats; the role of garnishes, food preservation and ice sculpture centerpiece skill development. Students will also learn contemporary styles of presenting food for a buffet setting. Prerequisite or concurrency: CUL 140.

Credits: 4 Other: 8

CUL 188 - SPECIAL STUDIES CULINARY ARTS

Explores topics of current interest in the discipline.

Credits: 9

CUL 199 - SELECTED TOPICS: CULINARY ARTS

Provides opportunity for students with exceptional background or need to continue beyond normal Culinary Arts program content. Content and credit(s) earned are established by mutual agreement between instructor and student and detailed in written agreement at the start of the term.

Credits: 1 to 6

CUL 200 - COMPREHENSIVE KITCHEN OPERATIONS FOR THE RESTAURANT INDUSTRY

Learn to prepare modern and seasonal dishes in a restaurant setting and put previously learned skills into practice in the College's dining room. This course will emphasize cooking techniques and ingredients used in contemporary and classical cuisines and cover planning and ordering for production, station organization, preparation and plating, timing, palate development and other production realities of a restaurant. Prerequisite: CUL 140 or BAK 140.

Credits: 5 Lecture: 2 Lab: 9

CUL 220 - INTERNATIONAL CUISINE AND GLOBAL FLAVOR PROFILING

Traces common global ingredients used in many regional dishes. It combines lecture, demonstration, production and presentation as the means to explore other cultures through the understanding of global culinary heritages. The attitudes and tastes of the more global and knowledgeable customers sets a greater expectation of balance in a professional culinarian's repertoire. Students examine food in the context of culture, geography, history and the influences cuisines have had on each other. Prerequisite: CUL 140.

Credits: 4 Other: 8

CUL 225 - APPLIED HARVESTING AND FOOD PRESERVATION PRINCIPLES

This course is intended to serve as an overview of sustainable harvesting techniques for plants and animals and the application of preservation

techniques. Students will learn about the importance of sourcing seasonal foods as it relates to pricing, flavor and quality. Students will conduct harvesting techniques of plant based foods, and participate in the slaughtering process of animal based foods. Students will process the harvested items and conduct a diversity of preservation techniques to include canning, smoking, pickling, freezing, freeze-drying, dehydrating, etc. Students will execute a final harvest event for regional farmers and ranchers to celebrate the partnership with Cascade Culinary Institute and local sustainable agricultural partners.

Credits: 4 Other: 8

CUL 230 - CULINARY NUTRITION AND APPLIED TECHNIQUES OF HEALTHY COOKING

Serves as an introduction to viewing nutrition through the lens of food and cooking. Emphasis will be placed upon the relationship between the preparation of flavorful food and its impact upon the body. Current dietary guidelines, along with the function of nutrients within the body, will be discussed. Modern healthy cooking techniques will be executed in the lab portion of this course with the intent to expose students to meeting the nutritional needs and requests of health conscious diners. Exposure to menu and recipe design will be covered, as students will learn how to reengineer classical recipes and present healthful and flavorful alternatives. Prerequisite: CUL 140 or BAK 140.

Credits: 4 Other: 8

CUL 235S - FARM-TO-TABLE AND SUSTAINABLE CUISINE PRACTICES

Serve as an overview of sustainable harvesting techniques for plants and animals and the application of preservation techniques. Students will learn about the importance of sourcing seasonal foods as it relates to pricing, flavor and quality. Students will conduct harvesting techniques of plant based foods, and participate in the slaughtering process of animal based foods. Students will process the harvested items and conduct a diversity of preservation techniques to include canning, smoking, pickling, freezing, freeze-drying, dehydrating, etc. Students will execute a final harvest event for regional farmers and ranchers to celebrate the partnership with Cascade Culinary Institute and local sustainable agricultural partners. Prerequisite: CUL 200.

Credits: 4 Other: 8

CUL 240 - BUTCHERY

This course will introduce students to the subject of meats and their application in foodservice operations. Through lectures, demonstrations, hands-on activities and reviews, students will learn about the muscle and bone structure of beef, veal, pork, lamb, game, poultry and specialty meats, fabrication methods for sub-primal and foodservice cuts, and proper tying and trussing methods. Lectures will introduce meat inspection, quality and yield grading, costing and yield testing, purchasing specifications, and basic information concerning the farm-to-table trail. Discussions will include preferred cooking methods for all meats, proper knife selection and butchery equipment. Sanitation and safety standards will be stressed throughout. Prerequisite: CUL 170.

Credits: 4 Other: 8

CUL 245S - MODERNIST CUISINE AND THE EVOLUTION OF COOKING

This course introduces students to the scientific investigation of cooking from the ground-breaking work of Nicholas Kurti through today's leading proponents, Grant Achatz, Ferran Adria and Heston Blumenthal. Techniques of specification, thermal immersion, liquid nitrogen for flash freezing, hydrocolloids for thickening and gelling will be applied in the kitchen to a variety of foods. Food pairing methods will be reviewed with the goal of inspiring new food combinations which are theoretically sound on a basis of their flavor. Prerequisites: CUL 170.

Credits: 4 Other: 8

CUL 255S - EVENT PLANNING AND EXECUTION WITH MODERN BANQUET COOKERY

This course examines the varied ways in which banquets and catering events may be executed. Terms relating to equipment, food preparation, service and presentation will be discussed. Students will prepare a

Course Descriptions

menu each day, following the principles and techniques associated with preparing and serving food to large groups, as well as concentrating on principles of modern batch cookery. An emphasis will be placed on maintaining quality and foundational cooking methodology. Students will also learn how to organize, plan and operate a banquet kitchen. Cooking applications are at an advanced level in preparation for later work in the public restaurants. Prerequisite: CUL 170.

Credits: 4 Other: 8

CUL 265S - ADVANCED SKILL DEVELOPMENT AND CULINARY COMPETITION MASTERY

Competitions play a vital role in culinary arts as they continually raise the standards of culinary excellence. There is no better way for culinarians to hone their craft than by putting their skills and knowledge to the test in a competitive format. Continually raises the standards of culinary excellence and professionalism. Nurtures the creativity of individual chefs. Provides a showcase for individual skills, techniques and styles. Prerequisites: CUL 170.

Credits: 4 Other: 8

CUL 270 - CULINARY ARTS CAPSTONE INTERNSHIP -**ELEVATION RESTAURANT DINNER**

Culinary Arts AAS students facilitate the food production and service of the student-operated restaurant within the Cascade Culinary Institute. The food items are prepared using techniques and knowledge learned in all classes taken during their culinary education. Students are evaluated on the skills needed to support the service of a fine dining meal: food safety and sanitation, knife cuts, dry heat cooking methods, moist heat cooking methods, combination cooking methods, vegetable cookery, starch cookery, sauce cookery and final plate presentation as a representation of their learning experience within the Culinary Arts Program curriculum. This final capstone course is designed to serve as an expression of all the competencies learned within the program, and to provide a final opportunity for assessment and instructor evaluation of student skill sets prior to graduation. As a practical final, students are evaluated on the skills needed to create a fine dining banquet for local patrons within the student-operated restaurant. Culinary Arts students produce the banquet twice during the term, once for faculty evaluation and review, which is integrated into the student operated restaurant service. The second buffet serves as a showcase intended to include family and community members. All students must create and present a cost analysis, nutrition analysis, production schedule and recipe book as part of the final buffet. Prerequisites: CUL 170 or BAK 170, CUL 200.

Credits: 6 Other: 18

CUL 276A - REGIONAL WORLD CUISINES: AFRICA

This course utilizes ingredients and techniques used in a specific regional cuisine: Africa. It combines lecture, demonstration, application and presentation as a means to explore a culture through the understanding of its food. Students examine food in the context of culture, geography, history and the influence a region's cuisine has worldwide.

Credits: 4 Other: 8

CUL 276C - REGIONAL WORLD CUISINES: CARIBBEAN

This course utilizes ingredients and techniques used in a specific regional cuisine: Caribbean. It combines lecture, demonstration, application and presentation as a means to explore a culture through the understanding of its food. Students examine food in the context of culture, geography, history and the influence a region's cuisine has worldwide.

Credits: 4 Other: 8

CUL 276F - REGIONAL WORLD CUISINES: FRANCE

This course utilizes ingredients and techniques used in a specific regional cuisine: France. It combines lecture, demonstration, application and presentation as a means to explore a culture through the understanding of its food. Students examine food in the context of culture, geography, history and the influence a region's cuisine has worldwide.

Credits: 4 Other: 8

CUL 276G - REGIONAL WORLD CUISINES: GERMANY

This course utilizes ingredients and techniques used in a specific regional cuisine: Germany. It combines lecture, demonstration, application and presentation as a means to explore a culture through the understanding of its food. Students examine food in the context of culture, geography, history and the influence a region's cuisine has worldwide.

Credits: 4 Other: 8

CUL 276I - REGIONAL WORLD CUISINES: ITALY

This course utilizes ingredients and techniques used in a specific regional cuisine: Italy. It combines lecture, demonstration, application and presentation as a means to explore a culture through the understanding of its food. Students examine food in the context of culture, geography, history and the influence a region's cuisine has worldwide.

Credits: 4 Other: 8

CUL 276J - REGIONAL WORLD CUISINES: ASIA

This course utilizes ingredients and techniques used in a specific regional cuisine: Asia. It combines lecture, demonstration, application and presentation as a means to explore a culture through the understanding of its food. Students examine food in the context of culture, geography, history and the influence a region's cuisine has worldwide.

Credits: 4 Other: 8

CUL 276S - REGIONAL WORLD CUISINES: SPAIN

This course utilizes ingredients and techniques used in a specific regional cuisine: Spain. It combines lecture, demonstration, application and presentation as a means to explore a culture through the understanding of its food. Students examine food in the context of culture, geography, history and the influence a region's cuisine has worldwide.

Credits: 4 Other: 8

CUL 280 - CULINARY ARTS INDUSTRY INTERNSHIP

Serves as a supervised work experience within the Culinary Arts industry designed to expand career knowledge and experiential confidence while increasing knowledge, speed, timing, organization and ability to execute industry skills on a repetitive basis. Students will receive a diverse work experience that is designed on a systematic rotation of different stations in the kitchen, dining room and general operations positions. Students can complete 100% of the experience in competencies that are relevant to the program curriculum, as it is outlined in the course syllabus and internship agreement. The internship is concluded by a final supervisor evaluation. Prerequisite: CUL 140.

Credits: 6 Other: 20

CUL 298 - INDEPENDENT STUDY: CULINARY

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required. Credits: 1 to 4

DENTAL ASSISTING

DA 110 - BASIC DENTAL ASSISTING

General overview of the Dental Assisting profession through lecture, discussions, demonstrations, laboratory activities and on-site clinic visitation. Includes examining dentistry as a profession, charting and data collection, taking and recording vital signs, four-handed dentistry and equipment use and maintenance. Laboratory portion gives students initial skills for the clinical experience in the areas of instrument identification and transfer, oral-evacuation and use of the air-water syringe. Infection control protocols established by OSHA, the Oregon Board of Dentistry and the Centers for Disease Control and Prevention will be implemented. See DA 115 for Dental Assisting program prerequisites. Corequisites: DA 115, DA 125, DA 134, DA 145.

Credits: 4 Lecture: 2 Other: 4

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DA 115 - DENTAL SCIENCE

Explores the following areas of study: basic anatomy and physiology, head and neck anatomy, dental embryology, oral histology, anatomy of the face and oral cavity and tooth morphology. Prerequisites: Choose either CIS 120 or Computer Competency Test, HHP 252, MTH 095 or higher; Choose one of the following Psychology courses: PSY 101, PSY 201, PSY 215 or PSY 216, SP 218 and WR 121. Corequisites: DA 110, DA 125, DA 134, DA 145.

Credits: 5 Lecture: 5

DA 120 - ADVANCED DENTAL ASSISTING

Continuation of DA 110 and furthers student's knowledge of the dental assisting profession. Includes lecture, power point presentations, videos, discussions, demonstrations and lab participation. Covers the advanced dental assisting skills of dental dam placement and procedures involved with the dental specialties of endodontics, periodontics and oral surgery. Also covers expanded functions such as coronal polishing, suture removal and pit and fissure sealants in accordance with the Oregon Board of Dentistry. Prerequisites: DA 110. Corequisites: DA 130, DA 135, DA 151, DA 181, DA 190.

Credits: 4 Lecture: 2 Lab: 4

DA 125 - DENTAL INFECTION CONTROL

Covers the principles of infection control related to the dental office, including an introduction to microbiology, along with cross-contamination and hazard control. The course covers OSHA Standards of Hazard Communication and Blood-borne Pathogens. Aseptic techniques and infection control procedures will be applied in the laboratory setting and assessed through competencies. The management of Safety Data Sheets and labeling of hazardous material will be addressed. See DA 115 for Dental Assisting program prerequisites. Corequisites: DA 110, DA 115, DA 134, DA 145.

Credits: 3 Other: 6

DA 130 - DENTAL MATERIALS I

Examines the properties of amalgam and composite materials. Provides skills in chairside assisting during the placement of Tofflemire matrices, amalgam restorations and composite restorations on a dexter. Offers lecture and laboratory experiences manipulating materials such as, alginate impression materials to take impressions, and gypsum products to pour casts. Includes the fabrication of custom methylmethacrylate impression trays, light cured trays and vacuum formed bleach trays. Covers pouring models, trimming for diagnostic casts and taking bite registrations. See DA 120 for second term Dental Assisting program prerequisites. Corequisites: DA 120, DA 135, DA 151, DA 181, DA 190.

Credits: 4 Lecture: 2 Other: 4

DA 131 - DENTAL MATERIALS II

Provides a fundamental knowledge of the materials commonly used in dental practice, including the physical, chemical and manipulative characteristics of cements, bases, cavity liners, cavity varnishes, composites and resins. The laboratory component offers experience in the correct manipulation of these materials. Covers the skills of cleaning and polishing removable prostheses and the fabrication of several types of provisional restorations. The didactic portion examines restorative options such as crowns, bridges, inlays, onlays, full dentures and partial dentures. Prerequisites: DA 130. Corequisites: DA 150, DA 160, DA 182, DA 191.

Credits: 4 Lecture: 2 Other: 4

DA 134 - DENTAL RADIOLOGY I

Explores the basic principles of radiography, the history of radiation and an introduction to the physics of radiation. Also covers the biological effects of radiation for both the safety and comfort of the patient and the operator. Introduces the radiographic unit and dental x-ray film. See DA 115 for Dental Assisting program prerequisites. Corequisites: DA 110, DA 115, DA 125, DA 145.

Credits: 3 Lecture: 3

DA 135 - DENTAL RADIOLOGY II

Focuses on the integration of knowledge and skills acquired during DA 134- Dental Radiology I as the student transitions from the didactic

study of radiography to the lab and clinical application. Performance of diagnostic exposure techniques using a variety of image receptors to a predetermined level of competency on both lab manikins and clinical patients. Interpretation of radiographic images for exposure and technique errors, anatomic landmarks, restorations, dental materials and diseases. Focuses on clinical patient management, using interpersonal skills and patient education, while adhering to appropriate infection control protocols. Prerequisites: DA 134. Corequisites: DA 120, DA 130, DA 151, DA 181, DA 190.

Credits: 4 Lecture: 2 Other: 4

DA 145 - PREVENTIVE DENTISTRY

Covers the components of preventive dentistry including oral hygiene instruction, plaque control, fluoride therapy, dental sealants and dietary considerations for the dental patient. Clinical skills include the completion of a coronal polish sequence and fluoride tray therapy on both a manikin and a fellow student patient. Identifies the pros and cons of Fluoride Varnish and Silver Nitrate therapies used in dental practices. Includes a discussion of the operation and procedures associated with Pediatric Dentistry. A capstone Service Learning project, related to the topic of Preventive Dentistry, will be selected, completed and presented to the class. See DA 115 for Dental Assisting program prerequisites. Corequisites: DA 110, DA 115, DA 125, DA 134.

Credits: 3 Other: 6

DA 150 - INTRODUCTION TO DENTAL OFFICE MANAGEMENT

Covers key competencies related to office practices and administrative responsibilities of the dental assistant as identified by the American Dental Association. Covers dental record preparation and maintenance, applicable computer applications, legal issues, general office management principles and professionalism in the dental office. Provides related instruction in computation. Teaches cover letter and resume writing, interviewing skills and HIPAA regulations. See DA 131 for third term Dental Assisting program prerequisites. Corequisites: DA 131, DA 160, DA 182, DA 191.

Credits: 3 Lecture: 3

DA 151 - DENTAL COMPUTING

Computers are an integral part of today's dental offices. They have become the method of choice for managing patient dental records, appointment scheduling, charting, processing insurance claims and establishing financial arrangements. Computer systems allow for the generation of reports, patient statements, professional and patient correspondence, treatment plans and fees for service. This course is designed to give students the training necessary to successfully complete these front-office tasks. See DA 120 for second term Dental Assisting program prerequisites. Corequisites: DA 120, DA 130, DA 135, DA 181, DA 190.

Credits: 2 Lecture: 2

DA 160 - ORAL MEDICINE

Part one is an introduction to the study of Oral Pathology and Dental Pharmacology. Part two focuses on the role of the dental assistant when caring for compromised patients and in dealing with dental/medical emergencies in the dental office. See DA 131 for third term Dental Assisting program prerequisites. Corequisites: DA 131, DA 150, DA 182, DA 191.

Credits: 3 Lecture: 3

DA 181 - DENTAL SEMINAR I

Discusses the various aspect of practicum I. Guest speakers representing dental specialties and alternative dental employment possibilities will be scheduled. Students will share work-related experiences with the instructor and their peers. Addresses employment opportunities, completing job applications and interviewing skills. See DA 120 for second term Dental Assisting prerequisites. Corequisites: DA 120, DA 130, DA 135, DA 151, DA 190.

Credits: 1 Lecture: 1

DA 182 - DENTAL SEMINAR II

Seminar discussions on various aspects of Spring term practicums in local dental offices. Guest speakers representing dental specialties and

alternative dental employment possibilities will be scheduled. Students will share work-related experiences with the instructor and their peers. Covers employment opportunities, resume writing, completing job applications and interviewing skills. Student will also prepare for the Dental Assisting National Board (DANB) General Chairside Exam. See DA 131 for third term Dental Assisting program prerequisites. Corequisites: DA 131, DA 150, DA 160, DA 191.

Credits: 1 Lecture: 1

DA 190 - DENTAL ASSISTING PRACTICUM I

A supervised, unpaid learning experience which takes place on-site at the COCC Dental and Radiology Clinics and at various community outreach facilities. Provides students with the opportunity to perform clearly identified competencies within the clinical setting. Each credit is equivalent to 30 hours in the clinical setting. See DA 120 for second term Dental Assisting program prerequisites. Corequisites: DA 120, DA 130, DA 135, DA 151, DA 181.

Credits: 1 to 5

DA 191 - DENTAL ASSISTING PRACTICUM II

A supervised, unpaid learning experience which takes place on-site at a minimum of two prearranged clinical facilities. Provides students with the opportunity to perform clearly identified competencies within the clinical setting. Each credit is equivalent to 30 hours in the clinical setting. Prerequisite: DA 190. Corequisites: DA 131, DA 150, DA 160, DA 182.

Credits: 1 to 8

DA 199 - SELECTED TOPICS: DENTAL ASSISTING

This course is in development.

Credits: 4

ECONOMICS

EC 101 - CONTEMPORARY ECONOMIC ISSUES

Introduction to contemporary public policy using basic economic principles. Topics may include poverty, income distribution, environmental policy, anti-trust, government budget, unemployment, international trade and economic development.

Credits: 4 Lecture: 4

EC 188 - SPECIAL STUDIES: ECONOMICS Explores topics of current interest in the discipline.

Credits: 1 to 3

EC 199 - SELECTED TOPICS: ECONOMICS

This course is in development.

Credits: 4

EC 201 - MICROECONOMICS

Microeconomics is the study of how individuals and firms make choices in the face of scarcity. This course will build economic intuition about the consequences of our consumption and production decisions. We consider how goods and services are allocated and how market forces such as technology, market power and government intervention shape the setting in which these decisions are made. Recommended preparation or recommended to be taken with: WR 121 and MTH 065.

Credits: 4 Lecture: 4

EC 202 - MACROECONOMICS

Macroeconomics is the study of how economic health is measured and the fiscal and monetary policies used by government to maintain it. This class examines money, banking and the story of the Federal Reserve; how the government uses taxes and spending to achieve economic growth and stability; and the role of international monetary policies including trade deficits, surpluses and exchange rates. The course uncovers the theory of business cycles and teaches students how to model economic growth and the effects of inflation. Recommended preparation or recommended to be taken with: WR 121 and MTH 065.

Credits: 4 Lecture: 4

EC 230 - CONTEMPORARY WORLD ECONOMIC ISSUES: INTERNATIONAL ECONOMICS

Provides an introductory survey of economic, political, social and cultural dimensions of globalization. Covers issues and problems related to international economics and international economic institutions. Includes trade and the balance of payments; trade competition between the U.S. and other nations; reform and restructure of global economies; economic development and problems of developing nations. Prerequisite: EC 201 or EC 202. Recommended preparation: MTH 095 and WR 121.

Credits: 4 Lecture: 4

EC 285 - INTRODUCTION TO POLITICAL ECONOMY

Covers specific topics related to the United States economy from a systems/institutional perspective. Includes key institutions that make up the U.S. economy such as, corporations, government, the market system, labor unions, monetary and financial institutions, and others. Examines three problem areas: environmental degradation and resource depletion; social and political inequality; and economic instability. Introduces possible solutions based on institutional change and develops viable economic alternatives based on principles of environmental sustainability, equity and economic stability. Prerequisite: EC 201 or EC 202. Recommended preparation: MTH 095 and WR 121.

Credits: 4 Lecture: 4

EC 298 - INDEPENDENT STUDY: ECONOMICS

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

EDUCATION

ED 112 - CHILDREN'S LITERATURE & CURRICULUM

This course provides an overview of children's literature across the early childhood curriculum (preschool-primary grades) from a curricular perspective. Different genres of children's literature will be examined as it relates to curricular areas: literacy, math, science, history, health, movement, music and the arts. This course is recommended for early childhood and education majors. This course will address the importance of literacy acquisition of young children (preschool through the primary grades) and how children's literature can support co-curricular standards, goals and objectives.

Credits: 3 Lecture: 3

ED 140 - INTRODUCTION TO EARLY CHILDHOOD EDUCATION

Beginning course in early childhood education which focuses on the teacher as a professional (advocacy, ethical practices, work-force issues, associations), provides strategies to manage an effective program operation, how to plan a safe, healthy learning environment and gives an overview of the philosophy and history of ECE. Three hours of supervised weekly field placement required.

Credits: 4 Lecture: 3 Other: 3

ED 150 - ENVIRONMENTS & CURRICULUM IN EARLY CHILDHOOD EDUCATION

Utilizes knowledge in child development to design, implement and evaluate activities in the major domains of development for children ages birth to eight years. Three hours of supervised weekly field placement required. Recommended preparation: ED 140.

Credits: 4 Lecture: 3 Other: 3

ED 151 - OBSERVATION & GUIDANCE IN EARLY CHILDHOOD EDUCATION LEARNING

Introduces observation techniques and tools to accurately collect data on children and how to use assessments to make appropriate decisions about the child's needs regarding programming and the early childhood education environment. Three hours of supervised weekly field placement required. Recommended preparation: ED 140.

Credits: 4 Lecture: 3 Other: 3

ED 152 - FAMILY, SCHOOL AND COMMUNITY RELATIONSHIPS IN EARLY CHILDHOOD EDUCATION

Introduces communication skills needed to enhance partnerships between families, schools and communities in early childhood education. Three hours of supervised weekly field placement required.

Credits: 3 Lecture: 2 Other: 3

ED 172 - LANGUAGE AND LITERACY IN EARLY CHILDHOOD EDUCATION

Covers language and literacy development as it relates to early childhood education. Also covers the history of literacy development, the family's role, how young children learn to read and write, using books with children, concepts of print, comprehension, differing abilities in literacy development and the role of observation and assessment. Three hours of supervised weekly field placement required. Recommended preparation: ED 140.

Credits: 3 Lecture: 2 Other: 3

ED 173 - MOVEMENT, MUSIC AND THE ARTS IN EARLY CHILDHOOD EDUCATION

Introduces physical education, rhythmic activities, visual arts and performing arts in the early childhood years. Covers basic motor skills and artistic processes, from a developmental perspective. Three hours of supervised weekly field placement required. Recommended preparation: ED 140.

Credits: 3 Lecture: 2 Other: 3

ED 174 - MATH, SCIENCE AND TECHNOLOGY IN EARLY CHILDHOOD EDUCATION

Introduces program and curricular activities that enhance a child's development of math, science and technology understanding and skills. Processes explored are constructivist in nature, with a focus on interdisciplinary approaches. Three hours of supervised weekly field placement required. Recommended preparation: ED 140.

Credits: 3 Lecture: 2 Other: 3

ED 176 - SUPPORTING SOCIAL, EMOTIONAL AND MENTAL HEALTH IN EARLY CHILDHOOD EDUCATION

This course provides the student with knowledge about common social, emotional and mental health concerns in early childhood and explores developmentally appropriate classroom guidance strategies for supporting children's social and emotional skills.

Credits: 3 Lecture: 2 Other: 3

ED 188 - SPECIAL STUDIES: PRACTICUM

Explores topics of current interest in the discipline.

Credits: 1 to 3

ED 199 - SELECTED TOPICS: EARLY CHILDHOOD EDUCATION

This course is in development.

Credits: 1 to 4

ED 200 - INTRODUCTION TO EDUCATION

Survey of the field and foundations of education, especially the teaching profession and the role of education in society. Explores philosophical, economic, legal, ethical, historical, psychological and social foundations of teaching and learning, and includes an overview of educational methods and approaches. Specializations within the field and training requirements for prospective teachers will also be addressed. Recommended preparation: WR 121.

Credits: 3 Lecture: 3

ED 210 - PRACTICUM IN TEACHING

Acquaints potential educators with roles and responsibilities of teachers at elementary and secondary levels. The student will observe and work as an instructional assistant in a local classroom to assess interests and potential for making teaching a career. ED 210 includes six hours field placement per week. Recommended preparation: WR 121 and ED 200 or instructor approval.

Credits: 3 Lecture: 1 Other: 6

ED 216 - PURPOSE, STRUCTURE AND FUNCTION OF EDUCATION IN A DEMOCRACY

Analyzes the system of education in a democratic society. This course introduces the historical, social, philosophical, political, legal and economic foundations of education to provide a framework from which to analyze contemporary educational issues. Recommended preparation: WR 121.

Credits: 3 Lecture: 3

ED 219 - MULTICULTURAL ISSUES IN EDUCATION SETTINGS

Examines the context of working with students, school, communities and workplaces. Explores the diversity of learners, learning cultures (urban, suburban and rural) and the diversity among learners within those different cultures. Considers the influence of culture on one's learning. Recommended preparation: WR 121.

Credits: 3 Lecture: 3

ED 235 - TEACHING AND LEARNING IN A DIGITAL AGE

This course will explore the integration and application of technology into the early childhood and primary elementary years curricula. Students will investigate, discuss and apply the theories and practices of educational technology specifically within the context of early childhood education. Additionally, students will develop skills and knowledge that will enable them to use responsibly various technologies to create and assess technology-enriched learning environments that reflect developmentally appropriate practices while being engaging and safe.

Credits: 3 Lecture: 3

ED 250 - ADVANCED CURRICULUM DEVELOPMENT & TEACHING METHODS IN EARLY CHILDHOOD EDUCATION

Compares and contrasts various teaching methods for children ages three to eight years. Focuses on constructivist teaching methodology and strategies, based on best practices in early childhood education. Three hours of supervised weekly field placement required. Recommended preparation: WR 121, ED 140, ED 150 and ED 151.

Credits: 4 Lecture: 3 Other: 3

ED 253 - LEARNING ACROSS THE LIFESPAN

Explores how learning occurs at all ages from early childhood through adulthood, major and emerging learning theories, individual learning styles including one's own learning styles, self-reflection on implications of how learning occurs and the impact of these issues on the development and delivery of instruction. Recommended preparation: WR 121.

Credits: 3 Lecture: 3

ED 261 - EARLY CHILDHOOD EDUCATION PRACTICUM I

Students participate in weekly online discussions and six hours of practicum work in an ECE setting. Students select, with their COCC practicum supervisor, an appropriate early learning practicum placement. All ECE courses required for an Early Childhood Education AAS degree need to be successfully completed before taking ED 261.

Credits: 3 Other: 9

ED 262 - EARLY CHILDHOOD EDUCATION PRACTICUM II

Students participate in weekly online discussions and six hours of practicum work in an ECE setting. Students select, with their COCC practicum supervisor, an appropriate early learning practicum placement. Recommend preparation: "C" or higher in ED 261.

Credits: 3 Other: 9

ED 265 - CHILDREN AT RISK

Issues of child abuse are presented from the multidisciplinary perspectives of education, criminal justice and psychology. Topics covered include definition and prevalence of child abuse, lifelong effects, prevention, identification and intervention. The course will focus on biopsychosocial outcomes and education concerns, as well as legal processes and implications from criminal justice.

Credits: 3 Lecture: 3

ED 269 - EXCEPTIONAL CHILDREN IN EARLY CHILDHOOD EDUCATION

Acquaints students with the exceptional child and his/her family. Local resources are explored to understand the referral process for children, birth to five years of age. Explores typical and atypical development and common delays and disabilities in all domains of child development. Includes discussion about teaching methods and strategies that are adapted or modified to meet individual child needs. Three hours of supervised weekly field placement required. Recommended preparation: ED 140, ED 151.

Credits: 3 Lecture: 2 Other: 3

ED 290 - ENGLISH LANGUAGE DEVELOPMENT IN THE PRIMARY CLASSROOM

This is an introductory course that will explore how to best meet the needs of English Language Learners in early childhood and elementary classrooms. We will examine how language skills are acquired and how to assess what stage of language acquisition students are in. We will also explore a variety of effective teaching strategies and materials that can be used in the classroom to help students develop both social and academic language proficiency. Three hours of field placement is required.

Credits: 4 Lecture: 3 Other: 3

ED 298 - INDEPENDENT STUDY: EDUCATION

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

ED 299 - SELECTED TOPICS: EDUCATION

This course is in development.

Credits: 1 to 4

EMERGENCY MEDICINE

EMT 151 - EMERGENCY MEDICAL TECHNICIAN PART A

Prepares the EMT student to provide prehospital assessment and care for patients of all ages with a variety of medical conditions and traumatic injuries. Areas of study include an introduction to emergency medical services systems, roles and responsibilities of EMTs, anatomy and physiology, medical emergencies, trauma, special considerations for working in the prehospital setting, and providing patient transportation. Required prior to registration: pass a criminal background check and provide current HealthCare provider CPR card and vaccination records. Completion of WR 060 or higher or a placement testing score of 66 or higher. Completion of MTH 020 or higher or placement score of 75 or higher. Instructor approval required.

Credits: 5 Other: 10

EMT 152 - EMERGENCY MEDICAL TECHNICIAN PART B

Prepares the EMT student to provide prehospital assessment and care for patients of all ages with a variety of medical conditions and traumatic injuries. Areas of study include an introduction to emergency medical services systems, roles and responsibilities of EMTs, anatomy and physiology, medical emergencies, trauma, special considerations for working in the prehospital setting and providing patient transportation. Required prior to registration: current HealthCare provider CPR card and vaccination records and EMT 151 from COCC within one academic year. Instructor approval required.

Credits: 5 Other: 10

EMT 163 - ADVANCED EMT PART I

This is part 1 of a 2-part course. The Advanced Emergency Medical Technician course prepares the AEMT student to provide prehospital assessment and care for patients of all ages with a variety of medical conditions and traumatic injuries. Areas of study include an introduction to emergency medical services systems, roles and responsibilities of AEMT's, anatomy and physiology, medical emergencies, trauma, special considerations for working in the prehospital setting and providing patient

transportation. Prerequisites: students must have a Valid Oregon EMT license, HealthCare provider CPR card, pass a criminal background check, and complete clinical site required immunizations to enroll in this course.

Credits: 5 Other: 10

EMT 164 - ADVANCED EMT PART II

This is part 2 of a 2-part course. The Advanced Emergency Medical Technician course prepares the AEMT student to provide prehospital assessment and care for patients of all ages with a variety of medical conditions and traumatic injuries. Areas of study include an introduction to emergency medical services systems, roles and responsibilities of AEMT's, anatomy and physiology, medical emergencies, trauma, special considerations for working in the pre-hospital setting and providing patient transportation. Prerequisites: students must have a Valid Oregon EMT license, HealthCare provider CPR card, pass a criminal history check and complete clinical site required immunizations to attend this course. Successfully complete EMT 163 with a C+ or better with in the current or previous academic year at COCC.

Credits: 5 Other: 10

EMT 170 - EMERGENCY RESPONSE COMMUNICATION/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.

Credits: 2 Lecture: 2

EMT 171 - EMERGENCY RESPONSE PATIENT TRANSPORT

This is a mandatory introductory course for all students seeking to enter the EMS degree program. This course is also very helpful for those students wishing to have a successful career in emergency services. This will offer tools that are essential in the daily activity as a firefighter, law enforcement officer or EMT. This course includes a broad-based overview of the elements that make up a safe and successful emergency response.

Credits: 2 Other: 4

EMT 188 - SPECIAL STUDIES: EMERGENCY MEDICAL TECHNICIAN

Explores topics of current interest in the discipline.

Credits: 5

EMT 195 - CRISIS INTERVENTION

Prepares the student to deal with situations facing both the patient and caregiver. Included are all facets of crisis intervention techniques and recent advances in critical incident stress debriefing intervention.

Credits: 3 Lecture: 3

EMT 199 - SELECTED TOPICS: EMERGENCY MEDICAL TECHNICIAN

This course is in development.

Credits: 5

EMT 280 - PARAMEDIC CO-OP WORK EXPERIENCE

Provides the educational field internship experience on an Advanced Life Support (ALS) transporting ambulance required to prepare the student to achieve licensure as a Paramedic. The field internship allows the paramedic student to apply previously learned theory and skills while under the direct observation and guidance of a preceptor. Student must have successfully completed all paramedic lecture/lab clinical requirements in order to register for this course. Students must pass a terminal competency exam at the completion of all CWE requirements. This course will meet the 4 credits of CWE required for completion of the paramedic program. Prerequisites: students will have needed to pass all didactic and clinical requirements EMT 290, EMT 291, EMT 292, EMT 293, EMT 294, EMT 295, EMT 296, EMT 297 and EMT 298. Department approval required.

Credits: 4

EMT 280A - PARAMEDIC CO-OP WORK EXPERIENCE

This is a one credit elective CWE offering available only to students affiliated with an agency that is a 911 Advanced Life Support (ALS) transporting agency. Provides the educational field internship experience required to prepare the student to achieve licensure as a Paramedic. The field internship allows the paramedic student to apply previously learned theory and skills while under the direct observation and guidance of a preceptor. Prerequisites: EMT 290, EMT 291, EMT 296. Department approval required.

Credits: 1

EMT 280B - PARAMEDIC CO-OP WORK EXPERIENCE

If a student has taken two 1-credit CWEs during the academic year, this 2-credit CWE must be taken in order to reach four credits of CWE required by the program. The CWE will provide the educational field internship experience on an Advanced Life Support Ambulance, required to prepare the student to achieve licensure as a Paramedic. The field internship allows the paramedic student to apply learned theory and skills in the internship setting while under the direct observation and guidance of a preceptor. Students must pass a terminal competency exam at the completion of all CWE requirements. Students will need four credits of CWE for completion of the Paramedicine degree. This course is meant to be taken during the Summer term, if the student completed two 1-credit EMT 280A courses in the Winter and Spring terms. Prerequisites:

Credits: 2

EMT 280C - PARAMEDIC CO-OP WORK EXPERIENCE

If a student has taken a 1-credit CWE during the academic year, this 3-credit CWE must be taken in order to reach four credits of CWE required by the program. The CWE will provide the educational field internship experience on an Advanced Life Support Ambulance, required to prepare the student to achieve licensure as a Paramedic. The field internship allows the paramedic student to apply learned theory and skills in the internship setting while under the direct observation and guidance of a preceptor. Students must pass a terminal competency exam at the completion of all CWE requirements. Students will need four credits of CWE for completion of the Paramedicine degree. This course is meant to be taken if the student completed one 1-credit EMT 280A courses during either the Winter or Spring terms. Prerequisites: EMT 294 and EMT 295. Department approval required.

Credits: 3

EMT 288 - SPECIAL STUDIES: EMERGENCY MEDICAL TECHNICIAN

Explores topics of current interest in the discipline.

Credits: 5

EMT 290 - PARAMEDIC PART I

First term of a three-term Didactic Series, including EMT 292 and EMT 294. Focuses on patient assessment; airway/ventilation, pathophysiology of shock, general pharmacology and respiratory, cardiovascular, neurological, behavioral and acute abdominal emergencies. Lab setting will begin the process of students' learning of required skills needed of a paramedic, such as IV establishment, medication administration and patient assessments for a variety of patient presentations. Corequisite: EMT 291.

Credits: 8 Lecture: 7.2 Lab: 7.2

EMT 291 - PARAMEDIC PART I CLINICAL

This is a competency-based clinical experience, which emphasizes patient assessment, formulation of presumptive diagnoses and treatment plans. The clinical experiences are performed at local hospitals. This is the first of three courses in the clinical setting for a paramedic student. Student must have been accepted into the second year paramedic program. Corequisite: EMT 290.

Credits: 3 Other: 10.8

EMT 292 - PARAMEDIC PART II

Second term of a three-term course, which includes EMT 290 and EMT 294. Focuses on anaphylactic, toxicological, environmental, geriatric, pediatric, neonatal and endocrine emergencies, infectious diseases,

capnography, special patient populations, hematology, psychiatric care, crime scene preservation, genitourinary care and trauma care. Applies didactic knowledge to campus-based laboratory skills practice. Prerequisites: EMT 290 and EMT 291 with a grade of "C" or better. Corequisite: EMT 293.

Credits: 8 Lecture: 7.2 Lab: 7.2

EMT 293 - PARAMEDIC CLINICAL PART II

This is a competency-based clinical experience, which emphasizes patient assessment, formulation of presumptive diagnoses and treatment plans. The clinical experiences are performed at local hospitals. This is the second of three courses in the clinical setting for a paramedic student. Student must have been accepted into the second year paramedic program. Prerequisites: EMT 290 and EMT 291 with a grade of "C" or better. Corequisite: EMT 292.

Credits: 3 Other: 10.8

EMT 294 - PARAMEDIC PART III

Offers third term of a three-term course, which includes EMT 290 and EMT 292. Continues on anaphylactic, toxicological, environmental, geriatric, pediatric, neonatal and endocrine emergencies, infectious diseases, capnography, special patient populations, hematology, psychiatric care, crime scene preservation, genitourinary care and trauma care. Applies didactic knowledge to campus-based laboratory skills practice. Prerequisites: EMT 292 and EMT 293 with a grade of "C" or better. Corequisite: EMT 295.

Credits: 8 Lecture: 7.2 Lab: 7.2

EMT 295 - PARAMEDIC CLINICAL PART III

This is a competency-based clinical experience, which emphasizes patient assessment, formulation of presumptive diagnoses and treatment plans. The clinical experiences are performed at local hospitals. This is the third of three courses in the clinical setting for a paramedic student. Student must have been accepted into the second year paramedic program. Prerequisites: EMT 292 and EMT 293 with a grade of "C" or better. Corequisite: EMT 294.

Credits: 3 Other: 10.8

EMT 296 - ADVANCED CARDIAC LIFE SUPPORT (ACLS)

The Advanced Cardiovascular Life Support (ACLS) Provider course is designed for healthcare providers who either direct or participate in the management of cardiopulmonary arrest or other cardiovascular emergencies. Through didactic instruction and active participation in simulated cases, the students will enhance their skills and clinical decision-making abilities for the diagnosis and treatment of cardiopulmonary arrest, acute arrhythmia, stroke and acute coronary syndromes. At successful completion, students will receive an AHA ACLS card. Department approval required.

Credits: 1 Other: 2

EMT 297 - PEDIATRIC ADVANCED LIFE SUPPORT (PALS)

In the Pediatric Advanced Life Support (PALS) course, you will reinforce and enhance your skills in the treatment of pediatric arrest and periarrest through active participation in a series of simulated pediatric emergencies. These simulations are designed to reinforce the important concepts of systematic approach to pediatric assessment, basic life support, PALS treatment algorithms, and effective resuscitation team dynamics. After successful completion of course, students will receive an AHA PALS card. The goal of the PALS course is to improve the quality of care provided to seriously ill or injured children, resulting in improved outcomes. Department approval required.

Credits: 1 Other: 2

EMT 298 - PREHOSPITAL TRAUMA LIFE SUPPORT (PHTLS)

In the Prehospital Trauma Life Support (PHTLS) course, you will reinforce and enhance your skills in the treatment of trauma-associated patients through active participation in a series of simulated traumatic emergencies. These simulations are designed to reinforce the important concepts of systematic approach to recognition, assessment and treatment of a multitude of multisystem trauma patients. After successful completion, students will receive an NAEMT PHTLS card. Department approval required.

Credits: 1 Other: 2

EMT 299 - SELECTED TOPICS: EMERGENCY MEDICAL TECHNICIAN

This course is in development.

Credits: 5

ENGINEERING

ENGR 188 - SPECIAL STUDIES: ENGINEERING

Provides an opportunity to explore an area of engineering by doing a special project or to gain practical experience by working with a professional engineer.

Credits: 1 to 6

ENGR 199 - SELECTED TOPICS: ENGINEERING

This course is in development.

Credits: 1 to 6

ENGR 201 - ELECTRICAL FUNDAMENTALS

Topics covered in this course include: DC and 1st order transient analysis, Ohm's Law, Kirchhoff's Law (KCL and KVL), nodal analysis, branch analysis, source transformations, Thevenin and Norton equivalent circuits, maximum power transfer, operational amplifiers, inductance, capacitance and transient response of RL and RC. Recommended preparation: PH 202/212, MTH 251/252.

Credits: 4 Lecture: 3 Lab: 3

ENGR 202 - ELECTRICAL FUNDAMENTALS II

Topics covered in this course include: AC and 2nd order transient analysis, sinusoids and phasors, sinusoidal steady-state analysis, nodal analysis, branch analysis, source transformations, Thevenin's and Norton's equivalent circuits, sinusoidal steady-state power calculation and balanced three-phase circuits. Recommended preparation: ENGR 201, MTH 251/252.

Credits: 4 Lecture: 3 Lab: 3

ENGR 211 - STATICS

Analyzes forces induced in structures and machines by various types of loading. Recommended preparation: MTH 251, PH 201/211.

Credits: 4 Lecture: 3 Lab: 2

ENGR 212 - DYNAMICS

Studies kinematics, Newton's law of motion, and work-energy and impulse-momentum relationships as applied to engineering systems. Recommended preparation: ENGR 211, MTH 252.

Credits: 4 Lecture: 3 Lab: 2

ENGR 213 - STRENGTH OF MATERIAL

Studies properties of structure materials. Analyzes stress and deformation in axially-loaded members, in circular shafts and beams and in statically indeterminate systems containing these components. Recommended preparation: MTH 252, ENGR 211.

Credits: 4 Lecture: 3 Lab: 2

ENGINEERING-GENERAL

GE 101 - ENGINEERING ORIENTATION

Introduces students to many different engineering fields through guest lectures, field trips and hands-on engineering projects and problemsolving exercises. Develops understanding of similarities and differences between the engineering fields. Discusses professional engineering testing and licensing requirements.

Credits: 3 Lecture: 2 Lab: 2

GE 102 - ENGINEERING PROBLEM SOLVING AND TECHNOLOGY

Introduces the use of Microsoft Excel for the solution of engineering problems and familiarizes students with the decision making and report preparation process in engineering design. Development of spreadsheets for analyzing engineering problems and preparation of final design

reports that outline in detail design evaluation, recommendation and implementation. Recommended preparation: MTH 112.

Credits: 3 Lecture: 2 Lab: 2

ENGLISH & LITERATURE

ENG 104 - INTRODUCTION TO LITERATURE: FICTION

Explores human purposes, literary structures, cultural values and rich varieties of the short story and the novel. Close reading, interpretation and evaluation of selected works of fiction, with attention to authors' contexts, creative process, narrative elements (such as theme, character, plot, point of view, setting, symbol and style) and reader responses. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 105 - INTRODUCTION TO LITERATURE: DRAMA

Examines drama as literature, through its traditions, imaginative purposes and organizing visions, such as tragedy, comedy and realism. Close reading and interpretation of selected plays with attention to the cultural contexts of their creation and to the literary dimensions of character, dialogue, plot, setting, language and theme. Need not be taken in sequence. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 106 - INTRODUCTION TO LITERATURE: POETRY

Explores critical and personal pleasures of poetry as a powerful and compact means to express feelings and ideas and respond to the varieties of human experience. Close reading of a wide range of poetry with attention to poets' roles, literary traditions and poetic strategies expressed through tone, speaker, situation and event, theme, irony, language, images, sounds, rhythms, symbols, open and closed poetic forms. Need not be taken in sequence. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 107 - WESTERN WORLD LITERATURE: ANCIENT

Explores origins of Western culture through a study of representative Greek, Roman and other literary philosophical and historical texts. Mythology and the hero's quest as incorporated in Homer and Virgil may form the core of the readings. Need not be taken in sequence. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 108 - WESTERN WORLD LITERATURE: MIDDLE AGES

Survey of representative texts explores Middle Ages, Renaissance, up to the 18th century Enlightenment, including rise of Christianity, chivalry and the vision quest. Need not be taken in sequence. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 109 - WESTERN WORLD LITERATURE: MODERN

Surveys representative texts, authors and genres from the late 18th century to the present; explores modern Western world literary movements and their historical-intellectual contexts, from romanticism and realism to post-colonialism and contemporary global trends. Need not be taken in sequence. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 188 - SPECIAL STUDIES: LITERATURE

Explores topics of current interest in the discipline.

Credits: 1 to 4

ENG 199 - SELECTED TOPICS: LITERATURE

This course is in development.

Credits: 1 to 4

ENG 201 - SHAKESPEARE

The major plays of Shakespeare's early and middle periods. May also include selected study of his sonnets. Need not be taken in sequence. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 202 - SHAKESPEARE

The major plays of Shakespeare's middle and later periods. May also include selected study of his sonnets. Need not be taken in sequence. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 204 - SURVEY BRITISH LITERATURE I

Examines representative texts from the heroic age (Medieval) through the Enlightenment (18th century). Literary forms such as the epic, chivalric romance, morality play and folk ballad, lyric and narrative poetry, drama, the speculative essay, prose non-fiction and the novel are studied. Explores relations between texts and their cultural and historic contexts. Need not be taken in sequence. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 205 - SURVEY BRITISH LITERATURE II

Examines representative texts from the Romantic period through Contemporary literature. The romance of nature, industrial growth, urban experience, the rise of new class identities and alienation of the individual are themes in this period. Literary forms such as lyric and narrative poetry, short stories, the novel and the drama of social realism and literature of the absurd are studied. Explores relations between texts and their cultural and historical contexts. Need not be taken in sequence. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 212 - AUTOBIOGRAPHY

Examines diverse modes of autobiographical writing as texts that represent the self in society and where writers construct and represent memories. Explores the ways in which writers construct and represent memory and the impact these narratives have on our understanding of the political and cultural context in which they are produced. Explores autobiography from various places and periods. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 221 - INTRODUCTION TO CHILDREN'S LITERATURE

Provides an overview of children's literature for toddlers through teens by examining the different genres of children's literature, including picture books, myths and folklore, poetry, nonfiction, historical fiction and fantasy, as well as the criteria for evaluation of each genre. This course is recommended for education majors as well as parents (present and future) who are interested in children's literature and issues related to children's literature. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 232C - TOPICS IN AMERICAN LITERATURE: CONTEMPORARY FICTION

In-depth study of several works of contemporary (late 20th/21st century) American fiction. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 232M - TOPICS IN AMERICAN LITERATURE: LITERATURE & MEDICINE

This course examines fiction, poetry, drama and creative nonfiction by and about members of the health professions. The goal is to understand multiple perspectives on illness, health and healing as presented in the course material. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 250 - INTRODUCTION TO FOLKLORE AND MYTHOLOGY

Study of the systematic ways to explain how and why so many of the world's great religions, past and present, share similar stories, heroes and ways of attempting to understand and explain the unknowable. Analyzes tales from, among other locales, India, China, Africa, and North and South America. Some of the key myths include those of the Aztecs and Mayans, Native North Americans, the Sumerians and the Gnostics. The first few weeks of the course will provide an introduction to folklore. It will then provide insight into the social, psychological and aesthetic nature of mythology and an introduction to the theoretical approaches to understanding mythology. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 253 - SURVEY AMERICAN LITERATURE I

Reading and interpretation of writings from the diverse cultures which inhabited, colonized or developed the U.S. through material from the Civil War period. Includes the Native American oral tradition, the journals of Columbus and other explorers, the diaries of settlers in the British colonies and more traditional forms of literature through the mid-19th century. Need not be taken in sequence. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 254 - SURVEY AMERICAN LITERATURE II

Covers selected works of American literature written during the late 19th century and the 20th century. Covers the transition from Realism and Naturalism to Modernism, the Jazz Age, the Harlem Renaissance, the Confessional and "Beat" poets and writers and late 20th century short fiction. Need not be taken in sequence. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 256 - FOLKLORE AND U.S. POPULAR CULTURE

Explores the relationship between folklore and popular culture, with special emphasis on the analysis of legends, myths, icons, stereotypes, heroes, rituals and celebrations. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 260 - INTRODUCTION TO WOMEN WRITERS

Focuses on the achievements and perspectives of women writers through critical analysis of their literary works and literary strategies. Uses a chronological, stylistic or thematic approach. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ENG 288 - SPECIAL STUDIES: LITERATURE

Explores topics of current interest in the discipline.

Credits: 1 to 4

ENG 299 - SELECTED TOPICS: LITERATURE

This course is in development.

Credits: 1 to 4

ETHNIC STUDIES

ES 199 - SELECTED TOPICS: ETHNIC STUDIES

Selected topics in Ethnic Studies.

Credits: 1 to 4

ES 213 - INTRODUCTION TO CHICAN@/LATIN@ STUDIES

This course examines historical, political, social and cultural issues in Chicano and Latino communities and surveys scholarship in Chicano and Latino studies. This course also explores the historical construction of race, ethnicity and identity with attention to how U.S. foreign policy in Latin America has influenced perceptions within and outside of the Chican@/Latin@ communities. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

ES 298 - INDEPENDENT STUDY: ETHNIC STUDIES

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required. Credits: 1 to 4

ES 299 - SELECTED TOPICS: ETHNIC STUDIES

Selected topics in Ethnic Studies.

Credits: 1 to 4

FILM ARTS

FA 101 - INTRODUCTION TO FILM

Enhances student enjoyment and understanding of film through exploring the cinematic languages of acting, directing cinematography and narrative. Recommended preparation: WR 121.

Credits: 3 Lecture: 3

FA 125 - WORLD CINEMA

Introduction to comparative study of compelling feature films and their directors from around the globe, analyzing subject matter, theme, genre, narrative structure, character, film style and technique as expressions of diverse cultural worldviews and distinctive artistic visions. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

FA 257 - LITERATURE INTO FILM

Implements analysis of the structure of motion pictures to teach about structure of literature, allowing students to see the comparative strengths of each form. Aspects of narrative to be compared include plot and structure, character development, point of view, figurative discourse, symbol and allegory and means of controlling and expressing passage of time. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

FISH & WILDLIFE

FW 199 - SELECTED TOPICS: FISH/WILDLIFE

Provides students with hands-on field experience and aids students in acquiring experience which may meet basic qualification standards required by federal agencies. Content and credit earned by mutual agreement between instructor and student in detailed written agreement. Instructor approval required.

Credits: 1 to 4

FW 212 - SURVEY OF NORTHWEST BIRDS

This course is an introduction to bird systematics, and surveys ecologically, economically and socially important bird species in the Pacific Northwest with an emphasis on field identification and basic life history. Recommended preparation: BI 102 or BI 213 or FOR 241A.

Credits: 2 Lab: 6

FW 218 - SURVEY OF NORTHWEST MAMMALS

This course is an introduction to mammal systematics, and surveys ecologically, economically and socially important mammal species in the Pacific Northwest with an emphasis on identification and basic life history. Recommended preparation: BI 102 or BI 213 or FOR 241A.

Credits: 2 Other: 4

FW 251 - WILDLIFE CONSERVATION

Introduces fundamentals of wildlife ecology and management and their role in wildlife conservation. Examines history of wildlife management, current issues and case examples in wildlife conservation. Recommended preparation: WR 121.

Credits: 3 Lecture: 3

FOODS & NUTRITION

FN 225 - HUMAN NUTRITION

In-depth introduction to the science of nutrition, stressing characteristics of nutrients and their food sources. Examines digestion, absorption and metabolism of nutrients. Includes individualized diet analysis and current-interest topics including weight management and some disease therapies. Emphasis is placed on use of scientific research criteria for evaluation of current nutrition articles.

Credits: 4 Lecture: 4

FORESTRY

FOR 100 - FORESTRY PROGRAM ORIENTATION

Provides students with an orientation to the Forest Resources Technology program. The course is designed to give students knowledge and tools to succeed in the Forest Resources AAS, the natural resources work force and in an academic career beyond COCC. The course is required of all students seeking the Forest Resources Technology AAS degree, and is highly recommended for students in the Wildland Fire program.

Credits: 1 Lecture: 1

FOR 110 - WILDLAND FIRE SCIENCE I

Focuses on the effects of Wildland Fire Policy, current fire suppression strategies and tactics; weather, topography, fuel models and how each interact to effect fire behavior. Additional topics include the wildland fire environment as it relates to situational awareness and personal safety. An overview of modern wildland firefighting with an emphasis on understanding and applying fireline safety. Course cannot be challenged, but will be waived for those with proof of wildland fire single resource status.

Credits: 2 Lecture: 1 Lab: 3

FOR 111 - FORESTRY PERSPECTIVES

Introduction to the entire discipline of forestry, including the history of forest use and management, North American forest regions, forest ecology, mensuration and management, forest products and the importance of forest resources other than wood fiber. Also provides overview of state, regional and local employment opportunities.

Credits: 4 Lecture: 3 Lab: 3

FOR 126 - FIELD STUDIES PACIFIC NW FORESTS

This course examines the ecology, management and human uses of Pacific Northwest forests. Field experience takes place during a 4-day field trip to the Oregon coast and Northern California and includes visiting forest environments, forest product manufacturing facilities, field lectures and guided tours, as well as individual and small-group exercises.

Credits: 1 Lab: 3

FOR 127 - PLANTS OF THE PACIFIC NORTHWEST

Identification, classification and distribution of shrubs, forbs and grasses found in low-, mid-, and high-elevation Oregon habitat types. Emphasis is placed upon proper field identification through use of terminology and taxonomic keys. Also discusses sensitive plants and noxious weeds.

Credits: 1 Lab: 3

FOR 130 - CHAINSAW USE AND MAINTENANCE

Covers basic tree falling, bucking and limbing techniques. Equipment safety, use, maintenance and repairs of saws is covered. Designed for inexperienced or novice chainsaw operators or can be used as refresher course for experienced saw operators.

Credits: 2 Lecture: 1 Lab: 3

FOR 180 - CO-OP WORK EXPERIENCE FORESTRY

Provides opportunity for on-the-job training in forestry field operations, forest products manufacturing or work related to these areas. Normally undertaken during summer months on a full-time basis but can occur any term.

Credits: 1 to 7

FOR 188 - SPECIAL STUDIES: FORESTRY

Explores topics of current interest in the discipline.

Credits: 1 to 3

FOR 195 - WILDERNESS CONCEPTS

Introduction to concepts of wilderness and wilderness management principles. Introduction to the history of wilderness and the National Wilderness Preservation System.

Credits: 2 Lecture: 2

FOR 199 - SELECTED TOPICS: FORESTRY

Provides opportunity for students with exceptional background or need to continue beyond normal program content. Content and credit earned by

mutual agreement between instructor and student and detailed in written agreement. Prerequisite: instructor approval. Maximum of three credits may be applied to degree.

Credits: 1 to 5

FOR 208 - SOILS: SUSTAINABLE ECOSYSTEMS

Focuses on the basics of Soil Science, ranging from physical properties to use and management. Soils with respect to traditional agricultural, wildlands and rangelands, watersheds and modern environmental perspectives will be discussed. New and current events of soils applications and the science of soils in the world around us will be reviewed to better understand the role soil has in our everyday lives. Lab component will include in and out of classroom lab work and field trips.

Credits: 4 Lecture: 3 Lab: 3

FOR 209 - FIRE ECOLOGY AND EFFECTS

Discusses the role of fire in Pacific Northwest ecosystems. Identifies effects on flora, fauna, soils, water, fire and cultural/visual resource management, fire and insect interactions. Covers the effects of fire on different forest and range ecosystems.

Credits: 3 Lecture: 2 Lab: 3

FOR 210 - WILDLAND FIRE SCIENCE II

A study of hazardous fuel management and treatment practices. Incorporates current fuel measurement and analysis techniques, fire behavior prediction models and hazardous wildland fuel mitigation methods.

Credits: 2 Lecture: 1 Lab: 3

FOR 211 - SUPERVISION AND LEADERSHIP

Covers basic human relations and management skills as applied to first-line supervision in forestry, fire science and EMS. Defines work environment. Identifies and discusses subordinate, peer and supervisory relationships. Case studies, including students' own work experiences will be used

Credits: 3 Lecture: 3

FOR 215 - FOREST RESOURCE CAPSTONE

Students conduct a sample survey of a large area and present their findings, along with recommendations for management of the area, in a written report. Oral presentation also made to department staff. Limited to second year students or those who have fulfilled majority of Forest Resources Technology degree requirements. Instructor approval required.

Credits: 3 Lecture: 1.5 Lab: 4.5

FOR 230A - MAP, COMPASS AND GPS

Teaches the basic skills of field and forest navigation with compass and GPS. Competency obtained in pacing, paper and computer map use, compass and basic GPS use.

Credits: 3 Lecture: 2 Lab: 3

FOR 230B - FOREST SURVEYING

Studies basic surveying techniques and equipment emphasizing traversing, differential leveling, profiling, GPS mapping and basic coordinate geometry. Recommended preparation: FOR 230A or instructor approval.

Credits: 3 Lecture: 2 Lab: 3

FOR 231 - GPS MAPPING

Introduces the basic techniques of mapping grade GPS data collection for GIS. Includes data dictionary creation, field data collection, differential correction and file transfer. Recommended preparation: FOR 230A.

Credits: 1 Lecture: .6 Lab: 1.2

FOR 235 - RESOURCE MEASUREMENTS

Students will learn the fundamentals of measuring and quantifying natural resources, including cruising and scaling timber to determine merchantable volume, quantifying wildlife and fisheries habitat, measuring and estimating forage production for wildlife and livestock, and sampling wildlife populations. Course will also introduce basic statistical concepts and their applications in resource management. First course in the sequence of FOR 235, FOR 236 and FOR 237. Recommended preparation: MTH 085 or higher.

Credits: 4 Lecture: 3 Lab: 3

FOR 236 - AERIAL PHOTO

Covers practical use of aerial photographs including photo interpretation, navigation, scale, area and distance determination, corner search, basic type-mapping and GPS application. Second course in the sequence of FOR 235, FOR 236 and FOR 237. Recommended preparation: MTH 086 or higher; FOR 230B or FOR 231.

Credits: 3 Lecture: 2 Lab: 3

FOR 237 - RESOURCE SAMPLING

Includes instruction in log scaling, tree measurement techniques, sampling statistics, tree volume and tree taper equations, sampling and field procedures for equal probability (sample tree and fixed area) and variable probability (3P and point sampling) sampling systems. Final course in the sequence of FOR 235, FOR 236, FOR 237. Recommended preparation: MTH 086 or higher, FOR 235, FOR 236.

Credits: 4 Lecture: 2.5 Lab: 4.5

FOR 240A - FOREST ECOLOGY

Provides students with an overview of basic plant structure and function and introduces students to functioning of forest ecosystems. Class will examine the physical environment and how it affects growth and distribution of organisms and ecological processes. Course concludes with an examination of communities, disturbance and succession.

Credits: 3 Lecture: 2 Lab: 3

FOR 240B - WILDLIFE ECOLOGY

Explores wildlife ecology and biodiversity in context of forest and range management. Focuses on relationship between wildlife and forest and range ecosystems, and examines the role of forest and range management in wildlife habitat management. Recommended preparation: FOR 240A.

Credits: 3 Lecture: 2 Lab: 3

FOR 241A - FIELD DENDROLOGY

Identification, classification and distribution of common trees and shrubs found in the Western United States and major tree species of North America. The course emphasizes botanical nomenclature and proper identification using plant keys and field characteristics.

Credits: 3 Lecture: 1 Lab: 6

FOR 241B - DENDROLOGY

Covers identification, classification and distribution of plant communities (tree, shrub, forb and grass) found within Oregon and major North American plan communities. This class covers in lecture format the structure and function of the primary organs and tissues that comprise woody plants. This course is the classroom portion of FOR 241A. Course does not need to follow FOR 241A.

Credits: 3 Lecture: 3

FOR 251 - RECREATIONAL RESOURCE MANAGEMENT

Overview of recreational resource management including study of land and water resources used for outdoor recreation. Includes planning and management of natural and cultural resources for long-term resource productivity.

Credits: 3 Lecture: 2 Lab: 3

FOR 255 - RESOURCE INTERPRETATION

Introduces fundamental theories of interpretation and active and passive techniques of interpretation including: activities, presentations, signage, brochures and information kiosks. Course allows optional certification as an interpreter.

Credits: 3 Lecture: 2 Lab: 3

FOR 260 - CONSERVATION OF NATURAL RESOURCES

Examines current utilization and issues surrounding natural resources availability and management, as well as the effect of human population on resource use and the environment. Includes critical analysis of sustainable development and resource use concepts, including principles of conservation and management. Emphasis placed on current issues. Two-day field trip required. Recommended preparation: WR 121.

Credits: 3 Lecture: 2 Lab: 3

FOR 271 - APPLIED FOREST ECOLOGY

Applies principles of forest ecology to develop a basic understanding of forest stand dynamics and silvicultural principles. Emphasis is placed on stand development, regeneration and stand analysis. Students will develop a practical understanding of stand establishment, maintenance and stand data collection. First course in sequence of FOR 271, FOR 272, FOR 273. Recommended preparation: FOR 240A and FOR 241A. Credits: 3 Lecture: 2 Lab: 3

FOR 272 - FOREST ENTOMOLOGY/PATHOLOGY

Emphasizes the recognition and effects of diseases, insects and mammals affecting forest ecosystems in the Pacific Northwest. Course will examine the role of insects, diseases and animals in forest functioning, health and management, as well as control measures and integrated pest management. Lab work is largely field-based and emphasizes identification of damaging forest insects and diseases common in Oregon. Second course in the sequence of FOR 271, FOR 272 and FOR 273. Recommended preparation FOR 240A and FOR 241A.

Credits: 3 Lecture: 2 Lab: 3

FOR 273 - SILVICULTURE AND HARVESTING SYSTEMS

Emphasizes interrelated systems of silviculture and harvesting. Discussions provide an understanding of the various treatments and harvesting systems applied to forest stands to meet various management objectives for forest ecosystems. Topics include forest regeneration processes and intermediate operations (thinning, pruning, etc.) and different methods of timber harvest. Observation and data collection will be performed in lab sections. Written reports interpreting prescriptions and harvest systems will be required. Last course in a sequence of FOR 271, FOR 272 and FOR 273. Recommended preparation: FOR 271, FOR 272 and FOR 235.

Credits: 5 Lecture: 3 Lab: 6

FOR 299 - SELECTED TOPICS: FORESTRY

This course is in development.

Credits: 1 to 5

FRENCH

FR 101 - FIRST YEAR FRENCH I

Designed for beginners. Emphasizes active communication in French. Develops students' basic skills in listening, reading, writing and speaking. Should be taken in sequence. This course is for students who have no experience with French. Students who have previously learned French should contact the instructor for advice on which class to take.

Credits: 4 Lecture: 4

FR 102 - FIRST YEAR FRENCH II

Continues the development of reading, writing, listening and speaking skills. Students are expected to have completed FR 101 material, and are encouraged to review FR 101 concepts and vocabulary prior to class. Recommended preparation: FR 101, one year of high school French, or instructor approval. Course should be taken in sequence. Students who have previously learned French should contact the instructor for advice on which class to take.

Credits: 4 Lecture: 4

FR 103 - FIRST YEAR FRENCH III

Continues the development of reading, writing, listening and speaking skills. Students are expected to have completed FR 102 material, and are encouraged to review the concepts of FR 101 and FR 102 prior to class. Successful completion of this sequence (FR 101-103) prepares students for entry into second-year level at COCC or any other university. Recommended preparation: FR 102, two years of high school French, or instructor approval. Students who have previously learned French should contact the instructor for advice on which class to take.

Credits: 4 Lecture: 4

FR 199 - SELECTED TOPICS: FRENCH

This course is in development.

Credits: 1 to 4

FR 201 - SECOND YEAR FRENCH I

Continues the work of First Year French, reviewing, expanding and perfecting pronunciation, structure and vocabulary for the purpose of active oral and written communication. Emphasis on writing and reading skills. Incorporates culture in all aspects of the course; class taught mostly in French. Course should be taken in sequence. Recommended preparation: FR 103, three years of high school French, or instructor approval.

Credits: 4 Lecture: 4

FR 202 - SECOND YEAR FRENCH II

Continues the work of FR 201, reviewing, expanding and perfecting pronunciation, structure and vocabulary for the purpose of active oral and written communication. Increasing emphasis on writing and reading skills. Incorporates culture in all aspects of the course; class taught mostly in French. Course should be taken in sequence. Recommended preparation: FR 201, four years of high school French, or instructor approval. Credits: 4 Lecture: 4

FR 203 - SECOND YEAR FRENCH III

Continues the work of FR 202, reviewing, expanding and perfecting pronunciation, structure and vocabulary for the purpose of active oral and written communication. Increasing emphasis on writing and reading skills. Incorporates culture, regionalisms and argot; class taught mostly in French. Course should be taken in sequence. Recommended preparation: FR 202 or equivalent, one year of IB, AP French in high school, 4+ years of French, or instructor approval.

Credits: 4 Lecture: 4

FR 211 - FRENCH CONVERSATION AND CULTURE I

Intended for students who wish to maintain and continue mastering fluency in the acquisition of French. Also an excellent option for the non-degree-seeking student. Recommended preparation: FR 103, equivalent, 2 years of high school French, or instructor approval.

Credits: 3 Lecture: 3

FR 212 - FRENCH CONVERSATION AND CULTURE II

Intended for students who wish to maintain and continue mastering fluency in the acquisition of French. Also an excellent option for the non-degree-seeking student. Recommended preparation: FR 211 or FR 201, 3+ years of high school French, or instructor approval.

Credits: 3 Lecture: 3

FR 213 - FRENCH CONVERSATION AND CULTURE III

Intended for students who wish to maintain and continue mastering fluency in the acquisition of French. Also an excellent option for the non-degree-seeking student. Recommended preparation: FR 212 or 202, 4+ years of French, or instructor approval.

Credits: 3 Lecture: 3

FR 298 - INDEPENDENT STUDY: FRENCH

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required. Credits: 1 to 4

GENERAL SCIENCE

GS 104 - PHYSICAL SCIENCE: PHYSICS

Energy is used as the theme to develop basic understanding of introductory principles of physics. Energy topics include mechanical, acoustic, heat, electric, radiant and nuclear. Emphasis placed on practical application of various energy forms. Recommended preparation: one year of high school algebra or equivalent or concurrent enrollment in MTH 060.

Credits: 4 Lecture: 3 Lab: 3

GS 105 - PHYSICAL SCIENCE: CHEMISTRY

Provides an introduction to properties and structures of matter, chemical bonding, solutions, equilibrium, electrolytes, and acids and bases. Also includes quantitative discussions of the mole, stoichiometry and solution concentration. Recommended preparation: one year of high school algebra or equivalent or concurrent enrollment in MTH 060.

Credits: 4 Lecture: 3 Lab: 3

GS 106 - PHYSICAL SCIENCE: GEOLOGY

Study of physical characteristics of, and processes within, solid earth. Principal topics include minerals, earthquakes, plate tectonics, igneous, sedimentary and metamorphic processes, glaciation and geologic time. Recommended preparation: one year of high school algebra or equivalent or concurrent enrollment in MTH 060.

Credits: 4 Lecture: 3 Lab: 3

GS 107 - PHYSICAL SCIENCE: ASTRONOMY

Introduction to astronomy including solar system, stellar systems and cosmology. Some individual observing may be required. Recommended preparation: one year of high school algebra or equivalent or concurrent enrollment in MTH 060.

Credits: 4 Lecture: 3 Lab: 3

GS 108 - PHYSICAL SCIENCE: OCEANOGRAPHY

Survey course that includes topics from four main areas of oceanography: geology of ocean basins and coasts, waves and currents, sea water chemistry and marine biology. Recommended preparation: one year of high school algebra or equivalent or concurrent enrollment in MTH 060.

Credits: 4 Lecture: 3 Lab: 3

GS 199 - SPECIAL TOPICS: GENERAL SCIENCE

This course is in development.

Credits: 1 to 6

GEOGRAPHY / GEOG INFO SYSTEMS

GEOG 100 - INTRODUCTION TO GEOGRAPHY

Designed to examine the key themes, concepts and ideas in geography and to develop a geographical perspective of the contemporary world. A basic foundation of the fundamental themes in geographic education will be extended to the study of places and regions. Emphasis will be placed on the development of cartographic and map interpretation skills.

Credits: 4 Lecture: 4

GEOG 106 - ECONOMIC GEOGRAPHY

Introduces the distribution of economic activities across the nation and the world. Explores core issues such as economic development, resource distribution and use, global agriculture, changes in manufacturing and the growth of the service sector. Urban patterns are explained in the context of our interrelated, globalized world. Useful course for business majors or any student wanting to understand criteria for business location. Recommended preparation: Placement into WR 065 or higher.

Credits: 4 Lecture: 4

GEOG 107 - CULTURAL GEOGRAPHY

Examination of different cultural traits in the world. Special emphasis on perception of space and landscape, language, world religion and folk and popular culture issues. Recommended preparation: writing placement test score that places the student in WR 065.

Credits: 4 Lecture: 4

GEOG 190 - ENVIRONMENTAL GEOGRAPHY

Introductory view of the environment and how it is shaped by and shapes human activity. Units include famine, water resources, deforestation, energy use, biodiversity and sustainable land-use practices. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

GEOG 198 - FIELD GEOGRAPHY OF CENTRAL OREGON

Field course that examines natural and cultural landscapes of Central Oregon sub-regions such as the Bend Core, Sisters Country, High Desert, and Upper and Lower Deschutes Basins. Recommended preparation: WR 121.

Credits: 3 Lecture: 3

GEOG 199 - SELECTED TOPICS: GEOGRAPHY

Series of mini-courses focusing on selected geographical topics including the following: an invitation to geography and natural regions of the world (deserts, mountains, humid tropics) and thematic topics.

Credits: 1 to 4

GEOG 201 - WORLD REGIONAL GEOGRAPHY I

Introductory geography course that explores the following regions: Europe, the former Soviet Union, Anglo-America, Australia and Japan. Evaluates how culture, politics, economics, history and the physical environment help create differences across regions. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

GEOG 202 - WORLD REGIONAL GEOGRAPHY II

Introductory geography course that explores the following regions: Latin America, Middle East/North Africa, Sub-Saharan Africa, East, South and Southeast Asia. Evaluates how culture, politics, economics, history and the physical environment help create differences across regions. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

GEOG 207 - GEOGRAPHY OF OREGON

Survey of the state of Oregon focusing on natural environment, economic developments and human geography. Special emphasis on historical geography and demographic changes. Includes studies of major regions of Oregon. Recommended preparation: WR 065.

Credits: 3 Lecture: 3

GEOG 211 - COMPUTER CARTOGRAPHY

Develops skills needed to produce maps using ArcGIS Desktop software. Outlines cartographic principles and map use. Emphasis on mapping techniques within a GIS. Intended for students enrolled in GIS or UAS programs. Usually offered Winter term.

Credits: 4 Lecture: 3 Other: 2

GEOG 212 - TOURISM AND RECREATION

Includes a study of various components of the tourist industry and an analysis of the economic and environmental impacts of tourism and recreation upon communities. Examines tourism and recreation in Central Oregon and in other selected parts of the world. Recommended preparation: WR 065.

Credits: 3 Lecture: 3

GEOG 213 - GEOGRAPHY OF PACIFIC NORTHWEST

General introduction to geographical characteristics of the Pacific Northwest and, through this regional emphasis, to some of the basic principles and concepts of geography as a discipline. Comprises three broad sections dealing in turn with historical geography, physical geography and economic geography. Recommended preparation: WR 065.

Credits: 3 Lecture: 3

GEOG 265 - GEOGRAPHIC INFORMATION SYSTEMS

Introduces students to principles and practice of GIS, while providing experience using ArcGIS Desktop and Spatial Analyst software. Develops both theoretical understanding of GIS and experience in accessing GIS datasets. Students exposed to raster and vector GIS. Usually offered Fall and Winter terms.

Credits: 4 Lecture: 3 Lab: 3

GEOG 266 - ARC GIS

Provides working knowledge of ArcGIS Desktop software. In addition, students undertake designing and developing a GIS database, performing spatial analysis, creating maps and generating a report

Course Descriptions

using the desktop products. Usually offered Fall term. Recommended preparation or to be taken with GEOG 265.

Credits: 5 Lecture: 4 Other: 2

GEOG 267 - GEODATABASE DESIGN

Covers fundamentals of creating, using, editing and managing spatial and attribute data stored in a geodatabase in ArcGIS. Topics include data migration; data loading; topology rules; use of subtypes, attribute domains and relationship classes. Also covered are creation, editing and analysis of geometric networks. Usually offered Spring term. Recommended preparation: GEOG 266.

Credits: 5 Lecture: 4 Other: 2

GEOG 270 - MAP INTERPRETATION AND DESIGN

Looks at the world of maps. How to design, interpret and critique many forms of maps. Recommended preparation: MTH 060 or equivalent.

Credits: 4 Lecture: 4

GEOG 272 - GEOGRAPHY FOR TEACHERS

Designed for public and private school teachers in geography and for all teachers wishing to include geographic content and concepts in their social studies classes. Emphasizes how to teach geography at any grade level and incorporates the benchmarks and curriculum goals of the state of Oregon Department of Education as well as National Geography standards. Recommended preparation: WR 121.

Credits: 3 Lecture: 3

GEOG 273 - SPATIAL DATA COLLECTION

Provides the skills to collect location information for the purpose of integration with a Geographic Information System. The focus is on proper utilization of Global Positioning System (GPS) receivers and data collection. Usually offered Fall term. Intended for students enrolled in the second year of GIS or UAS programs, or similar academic preparation (see program director for details).

Credits: 5 Lecture: 4 Other: 2

GEOG 275 - GIS CAPSTONE

Culmination GIS project. Students are presented with a set of criteria and perform all steps necessary to complete the project including: project planning, designing and developing a GIS database, data collection and editing, performing spatial analysis, creating maps, generating reports and presenting of project output. See instructor for details. Usually offered Spring term. Recommended preparation: GEOG 285 or instructor approval.

Credits: 5 Lecture: 4 Other: 2

GEOG 278 - PHYSICAL GEOGRAPHY-LANDFORMS AND WATER

Introduction to the science of landforms and the processes that form them, including both internal and external processes, and how these processes interact and form a system. The course will survey different landform types, such as fluvial, Aeolian, glacial, volcanic, coastal, karst, and periglacial landforms and identify where, on a global basis, these landforms are likely to occur.

Credits: 4 Lecture: 3 Lab: 3

GEOG 279 - PHYSICAL GEOGRAPHY-WEATHER AND CLIMATE

This course is an introduction to the sciences of meteorology and climatology. The focus of study for the meteorology section of the course will be on the troposphere, which is the layer of the atmosphere closest to the earth. The last portion of the course will study climatic classification and the relationship of climate with natural vegetation and human activity.

Credits: 4 Lecture: 3 Lab: 3

GEOG 280 - CO-OP WORK EXPERIENCE GIS

Provides opportunity for on-the-job experience in the GIS field. Normally taken Summer term, but may occur during any term. See instructor for details. Instructor approval required.

Credits: 1 to 3

GEOG 284 - GIS CUSTOMIZATION

Utilizes techniques to customize ArcGIS software through use of a current programming language. Publishing content to the internet and servers is also undertaken. Usually offered Winter term. Recommended preparation: CIS 122 or instructor approval.

Credits: 5 Lecture: 4 Lab: 2

GEOG 285 - DATA CONVERSION AND DOCUMENTATION

Covers a variety of techniques to collect and convert data between various formats, projections and coordinate systems, etc. Cultivates student's ability to research and experiment with data and enhance problem-solving skills. Stresses use of metadata which allows the data user to determine whether a particular data set is suitable for its proposed use. Usually offered Winter term. Recommended preparation: GEOG 266 or instructor approval.

Credits: 5 Lecture: 4 Other: 2

GEOG 286 - REMOTE SENSING

Introduces students to the theory and methods of remote sensing through use of satellite imagery. Practical exercises involve use of SPOT, LANDSAT and Quickbird images with ArcGIS/Imagine Analysis software. Digital analysis is discussed and performed including preprocessing, image classification and image evaluation. Usually offered Spring term. Intended for students enrolled in the second year of GIS or UAS programs, or similar academic preparation (see program director for details).

Credits: 5 Lecture: 4 Other: 2

GEOG 287 - ANALYSIS OF SPATIAL DATA

Leads students through the analytical capabilities of GIS. Course begins with the more elementary but useful techniques involving locating and describing features, then proceeds to more advanced techniques based on higher-level spatial objects. Lab exercises utilize the Spatial Analyst Extension of ArcGIS to perform analysis of raster datasets. Usually offered Spring term. Recommended preparation: GEOG 266 or instructor approval.

Credits: 5 Lecture: 4 Other: 2

GEOG 290 - ENVIRONMENTAL PROBLEMS

Examines intentional and inadvertent human modification of the natural environment and local, regional and global problems it may cause. Includes deforestation, urbanization, resource depletion and climate. Recommended preparation: WR 121.

Credits: 3 Lecture: 3

GEOG 295 - WILDERNESS AND SOCIETY

Cultural and historical overview of the changing attitudes toward wilderness as reflected through literature and the history of federal land legislation. Attempts to define the social and economic values of wilderness lands and where they occur geographically. A reading intensive course

Credits: 4 Lecture: 4

GEOG 298 - INDEPENDENT STUDY: GEOGRAPHY

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

GEOG 299 - SELECTED TOPICS: GEOGRAPHY

This course is in development.

Credits: 1 to 4

GEOLOGY

G 148 - VOLCANOES AND EARTHQUAKES

This lab science course examines the global occurrence, origin and geological processes that create volcanoes and earthquakes. In addition, the course explores geologic hazards, risks, monitoring techniques and prediction methods associated with earthquakes and volcanism.

The course makes extensive use of historic and prehistoric records of earthquakes and volcanic events and highlights examples from Oregon and the western United States.

Credits: 4 Lecture: 3 Lab: 3

G 162CV - CASCADE VOLCANOES

Consists of field studies of selected areas with emphasis on relationship between rock type, geologic setting and topography. Includes lectures, laboratory and weekend field trips. Topic areas include Cascade Volcanoes.

Credits: 3 Lecture: 1 Lab: 6

G 199 - SELECTED TOPICS: GEOLOGY

This course is in development.

Credits: 1 to 6

G 201 - GEOLOGY I

Examines the nature and origins of igneous metamorphic and sedimentary rocks, volcanism and volcanic hazards, geological resources, interior of the earth and plate tectonics.

Credits: 4 Lecture: 3 Lab: 3

G 202 - GEOLOGY II

Examines the nature of earthquakes, mass wasting, rivers, glaciers, groundwater, deserts, rock deformation, mountain building and plate tectonics. Need not be taken in sequence.

Credits: 4 Lecture: 3 Lab: 3

G 203 - GEOLOGY III

Examines earth history, geologic time, plate tectonics, fossils and the origin of earth. Need not be taken in sequence.

Credits: 4 Lecture: 3 Lab: 3

G 207 - GEOLOGY OF THE PACIFIC NORTHWEST

This is a one-term introductory lab science course in geology. It provides an introduction to the regional geology of the Pacific Northwest with emphasis on Oregon, Washington and parts of neighboring states and provinces. Includes basic geologic principles, earth materials and geologic history of the Pacific Northwest. Required weekend field trip.

Credits: 4 Lecture: 3 Lab: 3

G 299 - SELECTED TOPICS: GEOLOGY

Selected topics in Geology.

Credits: 1 to 6

GERMAN

GER 101 - FIRST YEAR GERMAN I

German 101 is designed for beginners. Basic listening, comprehension, speaking and writing skills will be developed during this course. Focuses on phonetics, genders, descriptions of objects and people, conjugating regular and irregular verbs in the present tense, punctuation, question words, German word order, and vocabulary, which includes the following categories: the alphabet, numbers and greetings. Communication and German thought processes will be emphasized. Successful completion of this sequence, which should be taken in order, will prepare students for second-year level German at COCC or other universities.

Credits: 4 Lecture: 4

GER 102 - FIRST YEAR GERMAN II

Continues the development of reading, writing, listening and speaking skills. Focuses on usage of kennen and wissen, the accusative case and prepositions governed by the accusative, modal verbs, verbs with separable prefixes, forming plurals, the formal and informal imperative and prepositions. Students are encouraged to review GER 101 concepts and vocabulary prior to class. Recommended preparation: GER 101, one year of high school German, or instructor approval.

Credits: 4 Lecture: 4

GER 103 - FIRST YEAR GERMAN III

Continues the development of reading, writing, listening and speaking skills. Focuses on the dative case including indirect objects and

prepositions governed by the dative, prepositions that can be accusative or dative, past tense using sein and haben, coordinating conjunctions, and comparisons. Students are encouraged to review the concepts of GER 101 and GER 102 prior to class. Recommended preparation: GER 102, two years of high school German, or instructor approval.

Credits: 4 Lecture: 4

GER 188 - SPECIAL STUDIES: GERMAN

Explores topics of current interest in the discipline.

Credits: 1 to 4

GER 201 - SECOND YEAR GERMAN I

Continues, after GER 103, with the development of reading, writing, listening and speaking skills. Focuses on subordinating conjunctions, reflexive pronouns and verbs in the accusative and dative, genitive, adjective endings, and comparisons. Class begins with a review of GER 101, GER 102 and GER 103. Recommended preparation: GER 103, three years of high school German, or instructor approval.

Credits: 4 Lecture: 4

GER 202 - SECOND YEAR GERMAN II

Continues with the development of reading, writing, listening and speaking skills. Focuses on the concepts of adjectives used as nouns, the simple past tense, past perfect tense, expressing wishes and expectations, the future tense, relative clauses, negations using nicht, noch nicht, noch kein(e), and nicht mehr, verbs with fixed prepositions, da- and wo-compounds, and the subjunctive. Recommended preparation: GER 201, four years of high school German, or instructor approval.

Credits: 4 Lecture: 4

GER 203 - SECOND YEAR GERMAN III

Continues with the development of reading, writing, listening and speaking skills. Focuses on the concepts of subjunctive I and II, expressing opinions, indirect discourse in present and past subjunctive I, the passive voice and the impersonal use of man, present participles, review of GER 202 grammar and vocabulary. Recommended preparation: GER 202, four years of high school German, or instructor approval.

Credits: 4 Lecture: 4

GER 298 - INDEPENDENT STUDY: GERMAN

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

GER 299 - SPECIAL STUDIES: GERMAN

This course is in development.

Credits: 1 to 4

HEALTH & HUMAN PERFORMANCE

HHP 100 - INTRODUCTION TO PUBLIC HEALTH

Covers basic elements of public health and complex ethical and political issues. Open to all COCC students who want to know more about the field of public health, what it is, how it's organized and how it works. Requirement for OSU-Cascades Exercise Science (EXSS) majors and is equal to H100 at OSU. Meets health requirements for AAOT degree and serves as an elective for any degree or certificate. Recommended Preparation: WR 065 or higher.

Credits: 4 Lecture: 4

HHP 131 - INTRODUCTION TO EXERCISE/SPORT SCIENCE

Introduces students to the profession of exercise science including an overview of basic concepts and careers in exercise physiology, athletic training, personal training, coaching, sports medicine, physical therapy and fitness management. Provides a comprehensive introduction to any student who is considering a career in the area of health, fitness, wellness, exercise physiology and sports medicine. Also, includes guest speakers currently working in the profession, as well as tours of

local fitness facilities. Various fitness certifications are compared and contrasted. Recommended Preparation: WR 065 or higher.

Credits: 3 Lecture: 3

HHP 185AB - ADVANCED BASEBALL

Allows students to learn and understand the rules and strategy of advanced baseball and to learn to communicate with teammates on the field, demonstrating sportsmanship. Helps improve the student overall physical conditioning, game strategies and master situational drills. Students will learn the philosophy of the game and be expected to implement assignments in game situations.

Credits: 1 Lab: 3

HHP 185BA - BARRE BODY

Combines ballet & Pilates fundamentals with motivating music to improve fitness through use of ballet or body barres. This low-impact class is ideal for all fitness levels without traditional gym equipment. Muscles are engaged in strategic patterns that intermix small isometric movements with greater range of motion working toward a defined physique.

Credits: 1 Lab: 3

HHP 185BB - SNOWBOARDING I

For beginning snowboarders. Students will learn the fundamentals of snowboarding with qualified instructors. Equipment must be provided by the student.

Credits: 1 Lab: 3

HHP 185BC - SNOWBOARDING II

For intermediate to advanced snowboarders. Students will be provided instruction to enhance their current skill level. Equipment must be provided by the student.

Credits: 1 Lab: 3

HHP 185BE - SNOWBOARDING III COMPETITIVE FREESTYLE RIDING

Focuses on freestyle techniques for advanced riders. Emphasis of instruction is on freestyle maneuvers, including straight airs, 180's, and straight airs with grabs, as well as etiquette when riding in the half-pipe, slope-style facilities and natural freestyle terrain. Equipment must be provided by the student.

Credits: 1 Lab: 3

HHP 185BF - BASKETBALL

Accommodates all skill levels of basketball and will focus on fundamentals of the game as well as team play.

Credits: 1 Lab: 3

HHP 185BJ - BRAZILIAN JUJITSU

Modified version of traditional Japanese Jujitsu and martial art sport that focuses on gaining a dominant position over your opponent. Students will learn proper techniques, using leverage, sparring and self-defense drills to gain self-confidence.

Credits: 1 Lab: 3

HHP 185BS - SWIMMING I: SWIM FITNESS & TECHNIQUE

Swim Fitness and Technique helps student feel safe and comfortable in the water for at least 10 minutes at a time, incorporating and refining swimming strokes.

Credits: 1 Lab: 3

HHP 185BW - BOOT CAMP FOR WOMEN

Introduction to exercises that improve cardiovascular endurance, muscular strength and flexibility in a supportive team atmosphere. Focus on improving strength and aerobic fitness, utilizing interval training, core strength, plyometrics, running, games and weights.

Credits: 1 Lab: 3

HHP 185CD - CULTURAL DANCE FITNESS

Designed to introduce individuals to various types of energetic dance styles from Africa to the Caribbean in a fun, dance fitness setting as well as learning the art of choreography. It is an energetic class integrating several dance styles (i.e., West African, Dance Hall, Hip-Hop) to a variety

of beats and rhythms from around the world. Cultural experience will also be taught which will benefit the mind, body and soul. This class is designed for all levels.

Credits: 1 Lab: 3

HHP 185CF - CORE FUSION

Using the most effective strengthening exercises of yoga, Pilates and group fitness, this class is designed to fatigue the core with emphasis on the upper and lower abdominals, the obliques, the back, quadriceps, hamstrings, glutes and triceps.

Credits: 1 Lab: 3

HHP 185CT - CIRCUIT TRAINING

General, core and cardio. Traditional circuit training class for total body conditioning that includes interval training using various equipment and core circuit training using equipment that emphasizes core-area workout.

Credits: 1 Lab: 3

HHP 185CY - CYCLING: STUDIO AND MOUNTAIN

Two types of cycling modes are offered at varying times throughout the year: indoor studio cycling, and mountain biking which will include local trail systems.

Credits: 1 Lab: 3

HHP 185DA - AEROBIC DANCE I

Kickboxing class incorporating traditional aerobic moves along with some resistance and abdominal training. Turbokick provides cross-training incorporating noncontact, martial arts aerobic exercises.

Credits: 1 Lab: 3

HHP 185DB - AEROBIC DANCE II-BENCH/STEP

Step bench, intervals. Traditional step bench and step class which has a combination of both cardio and strength exercises and routines. Part of each class will be dedicated on the mat, emphasizing core-area workout.

Credits: 1 Lab: 3

HHP 185DC - AEROBIC DANCE III-HIP HOP

Explains the growing awareness of hip hop as a mind-body, dance-style aerobic movement. Includes choreographed moves with each class and building upon each other as a sequenced routine.

Credits: 1 Lab: 3

HHP 185DD - DANCERCISE

High-energy class emphasizing dance movements including jazz, contemporary and salsa styles.

Credits: 1 Lab: 3

HHP 185GL - GOLF

Held at local golf courses and is taught by local pro instructors. Instruction of all skill levels will be accommodated.

Credits: 1 Lab: 3

HHP 185IM - INTERMEDIATE MOUNTAIN BIKING

This course is designed to build upon fundamental mountain bike skills. Trail etiquette and basic nutrition will be reviewed. Intermediate bike maintenance and advanced riding techniques will be introduced. Rides will take place on local trails. Previous mountain biking experience is necessary.

Credits: 1 Lab: 3

HHP 185JG - JOGGING

Focuses on improving running skills through various running activities. Students will run at both on and off campus sites.

Credits: 1 Lab: 3

HHP 185KA - KI AIKIDO

Introduces the martial art of Aikido, a form of self-defense and non-fighting. It is based upon coordination of mind and body, not only in throwing, but also in the art of falling (ukemi). Can accommodate all levels.

Credits: 1 Lab: 3

HHP 185KB - ADVANCED KI-AIKIDO

More closely explains the martial arts of Aikido and its application to daily life. Basic concepts taught in beginning Ki Aikido will continue and are now an expectation. Recommended preparation: HHP 185KA.

Credits: 1 Lab: 3

HHP 185KR - TRADITIONAL JAPANESE SHOTOKAN KARATE

Beginner class on Traditional Japanese Shotokan Karate with application of basic techniques includes blocks, kicks, punches, strikes and body movements. This course will introduce the student to the philosophy, discipline and techniques of a traditional Asian martial art from experienced instructors and lay the foundation for future development in martial arts.

Credits: 1 Lab: 3

HHP 185MS - MASTERS SWIMMING

This course is designed to strengthen swimming stroke skills to the advanced level, to introduce advanced concepts of fitness swimming and to prepare the student for lifetime participation in swimming and racing if desired. Students will attend organized masters swim team practices. Previous swimming experience expected.

Credits: 1 Lab: 3

HHP 185PB - STAND UP PADDLE BOARDING

General introduction into the world of stand-up paddle boarding. This group-class, designed for all levels, teaches the fundamentals of stand-up paddle boarding with a qualified instructor. It will introduce skills for proper paddling technique, safety considerations and trip planning. Participants should be comfortable in and around the water. Equipment provided.

Credits: 1 Lab: 3

HHP 185RC - ROAD CYCLING

This course is designed to develop fundamental road cycling skills. Road etiquette, basic nutrition, bicycle maintenance and other fitness related information will be addressed. Rides will begin and end on campus and will take place on surrounding roads. Previous cycling experience is not necessary, but a basic level of fitness will help. Offered as needed.

Credits: 1 Lab: 3

HHP 185RG - BEGINNING RUGBY

This is an activity course designed to familiarize the student with the rules, skills, strategy, fitness level and basic concepts of modern Rugby Union Football. The class will equip the student to be an informed Rugby participant.

Credits: 1 Lab: 3

HHP 185SA - SKI ALPINE I

For beginning downhill skiers. Students will learn the fundamentals of skiing with qualified instructors. Equipment must be provided by the student.

Credits: 1 Lab: 3

HHP 185SB - SKI ALPINE II

For intermediate to advanced skiers. Students will be provided instruction to enhance their current skill level. Equipment must be provided by the student.

Credits: 1 Lab: 3

HHP 185SF - SOFTBALL

Focuses on fundamental skill development and team play for all levels of players.

Credits: 1 Lab: 3

HHP 185SH - STRETCH AND RELAXATION

Introduces students to progressive stretching activities, including the value of stretching to the overall relaxation process.

Credits: 1 Lab: 3

HHP 185SK - SKI CONDITIONING-NORDIC

General performance. Two levels of conditioning: a general course for all types of groomed and off-track Nordic skiing and a performance for improving fitness and technique for racing and groomed skiing.

Credits: 1 Lab: 3

HHP 185SL - SAND VOLLEYBALL

Accommodates all skill levels of sand volleyball and will focus on skill building, team play and conditioning.

Credits: 1 Lab: 3

HHP 185SR - SOCCER

Focuses on fundamental skill development and team play for all levels of players.

Credits: 1 Lab: 3

HHP 185SS - SOCCER ADVANCED

Geared toward students demonstrating a high skill level. Recommended preparation: HHP 185SR.

Credits: 1 Lab: 3

HHP 185ST - PILATES

Familiarizes students with the awareness of core flexibility and strength, relative muscle groups and joint actions of the core. Provides Pilates vocabulary and training techniques, including specific stretching, as well as stretching for general health. Also, provides proper sequence form for stretching, the slide, rings, exercise balls and weights for cardio and overall balance.

Credits: 1 Lab: 3

HHP 185SU - PILATES - ALL LEVELS

Includes a brief review of Pilates fundamentals or proper spine alignment, elongation, thoracic breath and core control, including the use of appropriate Pilates equipment. Class sequence of Pilates exercises with appropriate modifications for all fitness levels.

Credits: 1 Lab: 3

HHP 185SW - SWIMMING FUNDAMENTALS

Basic swim instruction for individuals with limited to no experience. Learn basic swim skills (floating, breathing techniques and flutter kicking), swimming theory concepts and strokes (front and back crawl and breaststroke) at your own pace.

Credits: 1 Lab: 3

HHP 185SX - SKI X-COUNTRY I

For beginning cross-country skiers with little or no experience. Students will learn the fundamentals of skate-skiing with a qualified instructor. Skate equipment must be provided by the student.

Credits: 1 Lab: 3

HHP 185SY - SKI X-COUNTRY II

Focus on skate-skiing for intermediate to advanced skiers. Students will improve technique and overall fitness required for groomed-trail skiing or racing. Skate equipment must be provided by student. Offered as needed.

Credits: 1 Lab: 3

HHP 185TA - TENNIS I

Focuses on skill development for beginning tennis players. Students will learn through various drills and court games.

Credits: 1 Lab: 3

HHP 185TB - TENNIS II

Geared toward students with intermediate or advanced tennis skills. Should be able to demonstrate prior experience. Recommended preparation: HHP 185TA.

Credits: 1 Lab: 3

HHP 185TF - TOTAL FITNESS

High intensity and very demanding class. Geared toward improving overall fitness.

Credits: 1 Lab: 3

HHP 185TI - TAI CHI/QIGONG

Introduces the basic techniques of Tai Chi Yang style simplified form and three Qigong exercises, as well as theories and concepts for better health and relaxation through meditation in movement. Can accommodate all levels.

Credits: 1 Lab: 3

HHP 185TJ - TAI CHI/QIGONG-INTERMEDIATE

Introduces Tai Chi Chaun Yang Style 48 form and several additional Qigong exercises for continued health and relaxation through meditation in movement, at the intermediate level. Course encourages students to incorporate daily practice into their schedules and to practice together in study groups. Recommended preparation: HHP 185TI Offered as needed.

Credits: 1 Lab: 3

HHP 185TK - TAE KWON DO

Improves cardiovascular endurance, muscular strength and flexibility. Includes: self-defense, social, etiquette and cultural introduction of dojang.

Credits: 1 Lab: 3

HHP 185TR - 10K RUNNING

10K training is designed to increase individual endurance through running specific workouts, strength, form work, nutrition and specific needs of each student. Previous running experience is helpful. Offered as needed.

Credits: 1 Lab: 3

HHP 185VC - VOLLEYBALL ALL LEVELS

Focuses on fundamental skill development and team play for beginning students and continuing students who want to enhance their skill level.

Credits: 1 Lab: 3

HHP 185VD - VOLLEYBALL (DOUBLES)

Provides rules and strategy of doubles volleyball. Includes communication with teammates on the courts due to the faster pace of the game.

Credits: 1 Lab: 3

HHP 185WA - PROGRESSIVE WALKING

A group class designed to prepare and progressively maintain health and fitness at a target heart rate through walking.

Credits: 1 Lab: 3

HHP 185WE - WATER AEROBICS

Introduces water aerobics which improves cardiovascular endurance, muscular strength and flexibility.

Credits: 1 Lab: 3

HHP 185WN - WILDERNESS TRAINING

Classes under the HHP 185WN Wilderness Training course number include the following: Wilderness Training Beginning, Orienteering, Hiking and Backpacking, Snowshoeing, Beginning Rock Climbing, Intermediate Rock Climbing and Back Country Skiing. Recommended preparation for Intermediate Rock Climbing: Beginning Rock Climbing or instructor approval. See the footnote in the class schedule for further course descriptions.

Credits: 1 Lab: 3

HHP 185WT - WEIGHT TRAINING

Covers the basic principles of weight training and proper use of weight room equipment and safety. The course includes a variety of weight training methods and incorporates core strength and flexibility activities. Students will develop their own weight lifting program throughout the term.

Credits: 1 Lab: 3

HHP 185WW - WILDERNESS TRAINING: WATER

Rafting I, Rafting II, Kayaking I, Kayaking II.

Credits: 1 Lab: 3

HHP 185YA - INTERMEDIATE YOGA

Appropriate for any student who has a yoga background and is familiar with basic yoga postures, breathing and intentions. Self-exploration is enhanced through the introduction of variations of alternative movements to basic poses such as arm balances. Following a dynamic warm-up, students will participate in a flow-type session with quick movements to increase heart rate. Deep stretch and shavasana will conclude each class. Students will often work in pairs on advanced postures.

Credits: 1 Lab: 3

HHP 185YB - YOGA FOR ATHLETES

Designed for anyone (novice to advanced) who aspires to utilize the benefits of yoga to boost their athletic performance in any sport.

Although not required, it may be helpful to have had an introductory course prior to this class. A dynamic, flow-style of Vinyasa practice linking breath and movement with modifications emphasizing safety and anatomical clarity. The practice will utilize traditional asanas (poses) to build a foundation for a robust athletic yoga tool. The importance of strength will be equally emphasized with Yin like deep-style stretching. Rest and recovery will be given equal time with an introduction to the benefits of restorative practice utilizing props (bolsters).

Credits: 1 Lab: 3

HHP 185YG - YOGA

Introduces the basic techniques of yoga incorporating a wide range of yoga styles. Classes vary according to instructor offerings, which include Ashtanga, Hatha, Vinyasa, Yin, Restorative and Kundalini.

Credits: 1 Lab: 3

HHP 185YH - YOGA ALL LEVELS

Appropriate for all levels. Modification and additional variation in postures for students wanting a more challenging practice, using a blend of different yoga styles.

Credits: 1 Lab: 3

HHP 185YI - YOGA/PILATES BLEND

Focuses on a blend of two modalities, with the flexibility of yoga and core strength training of Pilates.

Credits: 1 Lab: 3

HHP 185YJ - YOGA VINYASA RISING

Vinyasa Rising is a dynamic flow of yoga linking breath and movement for a strengthening cardio practice set to rock and popular music. Emphasis is on Ashtanga Yoga in the tradition of Sri Jayakumar Swamysree from the University of Mysore, India. A combination of Vinyasa, Vini and Ashtanga styles of yoga styles will be taught.

Credits: 1 Lab: 3

HHP 185YK - GENTLE YOGA

This course is a gentle and restorative flow of yoga designed to heal and strengthen the body; includes various forms of breath work, postures for a more restful sleep, injury recovery, and therapeutic yoga for back and shoulders. The class will also be geared toward relaxing the mind and body, adding flexibility and allowing quiet moments during the yoga practice.

Credits: 1 Lab: 3

HHP 185ZU - ZUMBA

ZUMBA dance fitness fuses hypnotic rhythms and easy-to-follow moves to create a dynamic fitness program. This course is designed to include cardiovascular strengthening, muscle toning with resistance and movements to enhance flexibility and balance.

Credits: 1 Lab: 3

HHP 188 - SPECIAL STUDIES: HHP

Explores topics of current interest in the discipline.

Credits: 1 to 6

HHP 199 - SELECTED TOPICS:

HEALTH AND HUMAN PERFORMANCE ACTIVITIES

Includes both introductory courses and activities.

Credits: 1 to 6

HHP 210 - INTRODUCTION TO THE HEALTH CARE SYSTEM

Provides tools to understand and critically assess the health care delivery system, its components and the challenges created by its structure. The health care system will be considered from the perspective of patients, hospitals, doctors and health plans. This course is one of the four pre-Public Health core courses offered.

Credits: 3 Lecture: 3

HHP 212 - CPR-AMERICAN HEART ASSOCIATION HEARTSAVER WITH PEDIATRIC

The heartsaver automatic external defibrillator (AED) with pediatric CPR course teaches the basic techniques of adult CPR and use of an AED.

Pediatric CPR skills may be taught if students live or work in a setting where children are present. Students also learn to use barrier devices in CPR and give first aid for choking for responsive adult, child and infant victims. Course teaches how to recognize the signs of four major emergencies: heart attack, stroke, cardiac arrest and foreign-body airway obstruction. Through the American Heart Association. Course meets the Dental Assistant standards. Offered as needed.

Credits: 1 Lecture: 1

HHP 212A - CPR-AMERICAN HEART ASSOCIATION HEALTHCARE PROVIDER

Basic Life Support Healthcare Providers course teaches the skills of CPR for victims of all ages (including ventilation with a barrier device, a bag-mask device and oxygen), use of an automatic external defibrillator (AED) and relief of foreign-body airway obstruction in responsive and nonresponsive victims. The course is designed for health care providers who care for patients in a wide variety of settings, both in and out of hospital. Through the American Heart Association (AHA). Course meets the Allied Health and Nursing standards. In order to receive the AHA Healthcare Provider with Basic Life Support Certification card, one must pass a written exam and be able to physically perform all skills required for CPR.

Credits: 1 Lecture: 1

HHP 216 - SOCIOCULTURAL DIMENSIONS OF PHYSICAL ACTIVITY

This course will provide an overview of physical activity in contemporary society. It will look at relationships with the social processes: interrelationships between physical activity and cultural institutions. Offered as needed.

Credits: 3 Lecture: 3

HHP 231 - HUMAN SEXUALITY

Explores physiological, sociological and psychological factors relating to human sexual behavior. Topics include male and female sexual anatomy, gender identity and roles, relationships and communication, fertility management and sexual diseases and dysfunctions. Recommended preparation: WR 065 or higher.

Credits: 3 Lecture: 3

HHP 240 - SCIENCE OF NUTRITION

Will introduce nutrition to exercise science, nutrition, dietetics, food science and health science majors who have taken general chemistry. Concepts of nutrient metabolism and utilization, nutrient deficiencies and toxicities and their relationship to disease prevention and treatment. Meets requirements for COCC AS in EXSS and BS in EXSS at OSU-Cascades. Prerequisite: CH 104 or 105 or 106 or CH 221 or 222 or 223. Credits: 3 Lecture: 3

HHP 242 - STRESS MANAGEMENT

Helps students develop a comprehensive approach to the management of stress. Examines the historical, emotional, intellectual, spiritual, psychological and physiological foundations of the stress concept. This broad understanding of stress will be the basis for the study of the role that stress plays in health and disease. Students will experiment with a wide variety of stress management and relaxation techniques. Recommended preparation: WR 065 or higher.

Credits: 3 Lecture: 3

HHP 243 - OCCUPATION HEALTH, AHA BLS CPR

This class provides an introduction to major concepts and issues in occupational health and safety, including health promotion, injury and disease prevention, and protection of worker populations from environmental hazards. The course will also include a section on stress management with a focus on the application of managing stress on the job, and will include the American Heart Association (AHA) Basic Life Support (BLS) for Health Care Providers (HCP) CPR course which is what we currently teach in our one-credit HHP 212A class. Offered as needed. Credits: 3 Lecture: 3

HHP 246 - INTRODUCTION TO ADAPTED PHYSICAL ACTIVITY

This course will provide an overview of cognitive, neuromuscular, sensory and orthopedic impairments, understanding accessible physical activity programs for individuals with disabilities. This is a hybrid course where approximately 50% of the course will take place in a traditional face-to-face classroom and 50% will be delivered via Blackboard, your online learning management system, where you will interact with your classmates and with the instructor.

Credits: 3 Lecture: 3

HHP 248 - HEALTH PSYCHOLOGY

Health is defined as "a state of complete physical, mental and social wellbeing, and not merely the absence of disease" (World Health Organization, 1948). With that definition in mind, this course examines how biological, psychological, social and environmental factors affect physical health and wellbeing. Specific topics include historical and cultural perspectives of health, the psychology and physiology of stress, health behavior modification with emphases on primary prevention and health promotion, socioeconomic and healthcare inequalities, and an exploration of biopsychosocial factors related to chronic diseases like obesity, heart disease and HIV AIDS. This course is one of the four pre-Public Health core courses offered. Recommended preparation: WR 065 or higher.

Credits: 4 Lecture: 4

HHP 252 - FIRST AID & HCP CPR

The course will be devoted entirely to the instruction of First Aid & CPR. Immediate and temporary care for a wide variety of injuries, illnesses, conditions and events will be taught. Students will learn the skills of CPR for victims of all ages (including ventilation with a face shield, pocket mask and a bag-mask device), use of an automated external defibrillator (AED), and relief of choking. Both one- and two-person CPR will be taught as well as compression-only CPR. The practical exam will consist of individual hands-on testing. Upon successful completion of course (>80% on the three written exams and >80% on the practical exam), students will receive a National Safety Council Standard First Aid card valid for three years and an American Heart Association (AHA) Health Care Provider (HCP) Basic Life Support (BLS) (Adult & Pediatric CPR) card valid for two years. Recommended preparation: WR 065 or higher.

Credits: 3 Lecture: 3

HHP 252A - FITNESS/FIRST AID

Introduces both first aid and wellness topics, such as immediate and temporary care for injury and illness, control of bleeding, care for poisoning, splinting, bandaging and transportation, as well as fitness, nutrition and stress management. Students earn first aid and CPR cards in both adult and infant from the National Safety Council upon completion of course. Recommended preparation: WR 065 and MTH 020 or higher.

Credits: 3 Lecture: 3

HHP 258 - HOLISTIC WELLNESS

Looks beyond health risk factors to broader wellness dimensions (i.e. mental, emotional, spiritual, environmental, cultural & financial). Conventional & alternative paradigms of chronic disease causes plus modalities for healing will be explored through the role of our minds, environment, relationships, spirituality, & social support. Recommended preparation: WR 065 or higher.

Credits: 4 Lecture: 4

HHP 259 - CARE AND PREVENTION OF ATHLETIC INJURY

Introduces management of athletic injuries, injury recognition and assessment, proper care and treatment of athletic injuries and rehabilitation of athletic injuries. Emphasizes hands-on experience included for mastery of surface anatomy, injury assessment and proficiency in rudimentary injury care and rehabilitation practices. Recommended preparation: WR 065 or higher and HHP 260 or BI 231.

Credits: 3 Lecture: 3

HHP 260 - ANATOMICAL KINESIOLOGY

This is an introduction to the science of human movement (kinesiology). The class explores the anatomical elements such as muscle action and joint structure and function involved in the gross motor movement. Major emphasis will be on structural anatomy, primary movers of each joint and muscle utilization for specific sport actions. Recommended preparation: WR 065 or higher and BI 231.

Credits: 4 Lecture: 4

HHP 261 - EXERCISE PHYSIOLOGY

This course is designed to provide the student with an introductory foundation for understanding the physiology associated with exercise. Emphasis will be placed on how the various tissues and systems of the body adjust to acute work stress and ultimately adapt to chronic exercise training. Course materials will include metabolic, musculoskeletal, cardiovascular and respiratory adaptations to exercise and exercise training. Recommended preparation: WR 065 and MTH 020 or higher.

Credits: 4 Lecture: 4

HHP 262 - EXERCISE TESTING AND PRESCRIPTION

The intent is to provide a practical guide for administering safe exercise testing as well as development of safe and effective exercise prescription for all clients including special populations. Specific content to be addressed includes: initial client consultation, risk factor classification, performance of hands-on exercise testing, prescribing appropriate aerobic, anaerobic, flexibility and resistance exercise plans, periodication, prevention of overtraining, metabolic calculations and legality including HIPAA laws. Recommended preparation: HHP 260 and HHP 261.

Credits: 3 Lecture: 3

HHP 266 - NUTRITION FOR HEALTH

Introduces the basics of nutrition for a physically active, healthy lifestyle. The course emphasizes nutrient function, energy production, weight management, body composition, psychosocial health, global impact of nutrition, prevention of nutrition related diseases, food guide pyramid, ergogenic aids fad diets, dieting and nutritional research. Course also includes a computerized nutritional assessment. Recommended preparation: MTH 020 or higher.

Credits: 3 Lecture: 3

HHP 267 - WELLNESS COACHING FUNDAMENTALS

Explore components of behavior change by providing an overview of the dimensions of wellness, coaching technique and models in health. Foundational concepts of positive psychology, including the history, theory and ethics, as well as mindfulness, appreciative inquiry and self-efficacy will be examined and applied. Recommended preparation: WR 065 or higher.

Credits: 3 Lecture: 3

HHP 268 - SUSTAINABLE FOOD AND NUTRITION

Farmer and author Wendell Berry once wrote that eating is an "agricultural act." It is also an ethical, cultural, political and environmental act. In an attempt to understand the full impact of our food choices, this course will explore American food production from start to finish, past to present and field to fork. Along the way we will answer questions such as: How does a plant grow? What is the difference between conventional vs. organic agriculture? How and why did our current food system evolve? How much does a fast-food cheeseburger really cost? What and why is food biotechnology? Where can I buy a local head of lettuce or leg of lamb? And, ultimately, what should I eat? Recommended preparation: WR 065 or higher.

Credits: 4 Lecture: 4

HHP 270 - SPORT AND EXERCISE PSYCHOLOGY

Introduces a broad range of topics relevant to sport and exercise psychology, including sport personality, motivation, psychological skills training, energy management, attention, imagery, competitive anxiety and mental relaxation. Content is relevant for coaches, athletes and others interested in the psychology of sport. Recommended preparation: WR 065 or higher.

Credits: 3 Lecture: 3

HHP 280A - PRACTICUM-EXERCISE SCIENCE

Provides exercise ccience practicums by the department in conjunction with the community in health & fitness programs including group fitness, personal training, wellness coaching, research, clinical professions such as physical therapy, occupational therapy, athletic training and cardiac rehabilitation. Recommended preparation: complete a minimum of three exercise science classes. Instructor approval required.

Credits: 1 to 2

HHP 280B - PRACTICUM-EXERCISE SCIENCE

Provides exercise science practicums by the department in conjunction with the community in health & fitness programs including group fitness, personal training, wellness coaching, research, clinical professions such as physical therapy, occupational therapy, athletic training and cardiac rehabilitation. Recommended preparation: complete a minimum of three EXSS classes with a "C" grade or better prior to taking a practicum and must be approved for enrollment by an HHP/Exercise Science advisor before registering.

Credits: 1 to 2

HHP 281 - PRACTICUM-HEALTH PROMOTION/PUBLIC HEALTH

Provides practicums co-mentored by department faculty in collaboration with community partners. Practicum sites may include, but are not limited to, public health departments, community health centers, health promotion and education programs, local government organizations, environmental health organizations and social justice organizations. Thirty hours of practicum experience is equivalent to one credit. Instructor approval required. Recommended prior to registration: complete a minimum of three Health Promotion/Public Health courses.

Credits: 1 Other: 6

HHP 283 - INTRODUCTION TO ALTERNATIVE MEDICINE

Introduces the historical and sociopolitical context of conventional and "alternative" medical systems in the United States. A number of professional alternative medical practices will be examined as independent systems, and also as components of the larger context of the overall health care system in America.

Credits: 4 Lecture: 4

HHP 291 - LIFEGUARD TRAINING

Designed to teach the knowledge and skills needed to help prevent and respond to aquatic emergencies, including land and water rescue skills, as well as first aid, CPR and AED. Meets American Red Cross lifeguard training standards. Participants should be comfortable in and around the water and be able to demonstrate proficient swimming technique.

Credits: 2 Lecture: 1 Other: 2

HHP 292 - WATER SAFETY INSTRUCTOR

Provides participants with the ability to teach swimming and water safety skills and a logical progression for aquatic skill development. Students receive Ellis & Associate Pool Lifeguard certificate upon successful completion of course.

Credits: 2 Lecture: 1 Lab: 2

HHP 295 - HEALTH AND FITNESS

Introduces a comprehensive overview of wellness concepts including fitness, nutrition, stress, disease prevention and various other lifestyle factors that improve the quality of life. Each student's health and fitness is individually evaluated through a series of tests measuring cardiovascular endurance, strength, body composition, flexibility, blood pressure, nutrition, stress levels and blood lipid and blood glucose. Recommended preparation or recommended to be taken with: WR 065 and MTH 020 or higher.

Credits: 3 Lecture: 3

HHP 298 - INDEPENDENT STUDY: HHP

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

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HHP 299 - SELECTED TOPICS: HHP

Health topics requiring advanced level of critical thinking, writing and/or other skills.

Credits: 1 to 3

HEALTH INFORMATION TECHNOLOGY

HIT 103 - HEALTH INFORMATION SYSTEMS AND PROCEDURES

Health Information Systems and Procedures is a course designed to provide the student with a fundamental knowledge of health information delivery and information systems, functions of the health record and the skills necessary to integrate theoretical knowledge with application functions. Lab includes application of health care procedures via the AHIMA web-based virtual lab or equivalent electronic software. Students are required to pass a criminal history check prior to enrolling in HIT 103. Offered Fall term only. Prerequisites: AH 111, CIS 120, WR 121.

Credits: 5 Lecture: 4 Lab: 3

HIT 104 - HEALTH DATA CONTENT/STRUCTURE

Utilization and application of health care data content (health record analysis) with special emphasis on mechanics of physician's orders, clinical lab tests, diagnostic and treatment modalities, pharmacology and an overview of applicable consent and confidentiality principles. Lab will include application of health care procedures via the AHIMA web-based virtual lab or equivalent electronic software. Enrollment limited to HIT majors. Instructor approval required.

Credits: 5 Lecture: 4 Lab: 3

HIT 131A - DOCUMENT MANAGEMENT AND TECHNOLOGY

Provides specific fundamental experience in the identification and application of inpatient and outpatient records and reports based on current use of electronic health records (EHRs). It is important to have strong skills in spelling, medical terminology, the English language, attention to detail, proofreading, quality editing and grammatical appropriateness. Offered Spring term online. Students must pass a face-to-face written final exam at 70% or higher. The overall grade parameter to pass this class is "C" (75%) or higher. Instructor approval required.

Credits: 3 Lecture: 3

HIT 180 - HIPAA MANAGEMENT

Presents a medical-legal foundation with respect to HIPAA (Health Insurance Portability and Accountability Act), federal legislation enacted in 1996. HIPAA encompasses the privacy, security and electronic transaction standards for maintaining and transmitting protected health information. This course is designed to provide a basis for understanding the impact this legislation imposes on the health care industry and on health information management. Offered online and face-to-face. Students (online and face-to-face) must pass a face-to-face written final exam at 70% or higher. The overall grade parameter to pass this class is "C" (75%) or higher.

Credits: 2 Lecture: 2

HIT 182 - INTRODUCTION TO MEDICAL CODING

Explores the history, arrangement and application of ICD-9-CM (legacy system), ICD-10-CM and CPT coding systems. ICD-10-CM/CPT conventions, updates, influencing entities and how these expectations are communicated to health care providers, coding clearinghouses, ethical and quality coding, coder responsibilities, etc. will be determined. Basic coding guidelines by body system and/or payer requirements will be explored and applied including reporting of ICD-10-CM/CPT codes, inpatient and ambulatory reporting/billing. Offered Spring term. Recommended preparation or recommended to be taken with: AH 111, AH 112, BI 231, BI 232, BI 233, HIT 103, HIT 104, HIT 184. Instructor approval required.

Credits: 4 Lecture: 4

HIT 184 - ADVANCED PATHOPHYSIOLOGY

This course provides an in-depth study of human pathological processes, which affect body organs and interrelated body systems. Upon completion of this course, students will know the etiology, physical

signs and symptoms, pathogenesis, diagnosis, treatment modalities and prognosis of disease conditions identified in specific body systems. Students will be able to analyze and interpret laboratory, EKG, pulmonary and radiologic findings. This course will prepare students to understand and apply clinical concepts to medical coding, utilization review, quality management and clinical documentation. Prerequisites: AH 112 and BI 232. Recommended to be taken with: BI 233.

Credits: 5 Lecture: 5

HIT 188 - SPECIAL STUDIES I

Explores topics of current interest in the discipline.

Credits: 1 to 4

HIT 193 - DIRECTED PRACTICE I

In the realm of health information management, this is a course in which students report to a health care facility and experience planned activities in the environment of the actual workplace. Provision for technical experiences is an integral component of curricula. Provides for lecture preparation and application of classroom and laboratory objectives in a supervised affiliation site in Oregon, typically. Performed under leadership of a registered health information administrator or registered health information technician. Fulfills 60 of the 120 total clinical hours distributed in the curriculum at various points of program completion. Forty hours of actual clinical and 20 hours of preparatory instruction. Offered Summer term between the first and second year. Required prior to registration: successful completion of first-year HIT curriculum.

Credits: 2 Other: 6

HIT 199 - SELECTED TOPICS: HEALTH INFORMATION TECHNOLOGY

This course is in development.

Credits: 4

HIT 201 - LEGAL ASPECTS OF HEALTH CARE

This course presents the medical-legal aspects of health care. The course is designed to provide a foundation for understanding the rapidly expanding field of laws and regulations affecting the health care industry. Special emphasis is placed in the areas of preservation of medical records, hospital and physician liability, statues of limitations, consents for treatment and release of information, preparation of medical records in answer to a subpoena duces tecum, behavior of the medical record practitioner in court and principles of confidentiality highlights the technical role of the professional. Special legal implications for medical administration and risk management also are addressed. Offered Fall term. Required prior to registration: successful completion of first-year HIT curriculum. Instructor approval required.

Credits: 3 Lecture: 3

HIT 203 - HEALTHCARE DELIVERY AND TECHNOLOGY

Provides analysis of the common terms and procedures related to the development and implementation of information systems, specifically networks and interfaces (in reference to electronic health records), the personal health record (PHR), public health and other administrative application/systems, database architecture and design along with systems analysis and database informatics. Also provided in this class is an overview of the health care delivery system and its relationship to technology in health care. Required prior to registration: successful completion of first-year HIT curriculum. Instructor approval required.

Credits: 3 Lecture: 3

HIT 205 - INTRODUCTION TO MEDICAL RECORD ANALYSIS

Application of qualitative and quantitative analyses of health records based on accreditation standards, licensing and certifying agencies. The applications of accrediting standards and healthcare industry compliance regulations are also covered. Prerequisite: completion of first-year HIT program curriculum; enrollment limited to second-year HIT majors. Instructor approval required.

Credits: 3 Lecture: 3

HIT 272 - HEALTH INFORMATION MANAGEMENT

Studies organization and management principles in order to develop effective skills in data management, data governance and human

Course Descriptions

resource administration for the health care workplace. Covers computer concepts with emphasis on DRG grouping and encoding applications via AHIMA virtual lab web-based software. Includes capstone service learning project and orientation to the HIM professional environment at the Oregon Health Information Management convention. Required prior to registration: successful completion of first-year HIT curriculum. Instructor approval required.

Credits: 5 Lecture: 4 Lab: 2

HIT 281 - HEALTH DATA COLLECTION

Studies data computation, presentation and analysis of health statistics with an emphasis on validity and reliability. Includes definitions, the use of graphs and tables, measures of central tendency and percentiles. Emphasis on calculating hospital statistics. Offered Winter term. Required prior to registration: successful completion of first-year HIT curriculum. Instructor approval required.

Credits: 3 Lecture: 2 Lab: 2

HIT 282 - QUALITY IMPROVEMENT IN HEALTH CARE

Application and analysis of quality management, utilization management, risk management and other related studies. Also covered is the analysis of clinical data to identify trends that demonstrate quality, safety and effectiveness of health care. Abstraction of data for facility-wide quality management and performance improvement programs is also utilized. In addition, review of registries (cancer, disease, diabetes, etc.), indexes and databases are covered. Required prior to registration: successful completion of first-year HIT curriculum. Instructor approval required.

Credits: 4 Lecture: 3 Lab: 2

HIT 283 - CODING CLASSIFICATIONS

Places major emphasis on coding guidelines and application of codes for diseases and conditions in the ICD-10-CM coding classification. Required prior to registration: successful completion of first-year HIT curriculum. Instructor approval required.

Credits: 6 Lecture: 3 Lab: 6

HIT 284 - CLASSIFICATION AND REIMBURSEMENT SYSTEMS

Applies advanced coding principles with application based on legislative developments. Emphasizes merger of clinical and financial data for patient care reimbursement. Focuses on specialized coding pertinent to the Prospective Payment System including HCPCS coding. Explores alternate coding systems and extensive application of CPT coding system. Recommended prior to registration: ICD-10-CM coding skills. Required prior to registration: successful completion of first-year HIT curriculum. Instructor approval required.

Credits: 4 Lecture: 4

HIT 285 - ADVANCED CODING CLASSIFICATIONS

The use of ICD-10-CM/PCS will offer greater coding detail and granularity and will greatly enhance the precision with which users measure quality, collect statistical data and submit claims for reimbursement. This course is designed to provide advanced level hands on application of ICD-1 0-CM/PCS and in depth instruction in ICD-10-PCS. Prerequisites: HIT 283, HIT 284. Instructor approval required.

Credits: 4 Lecture: 4

HIT 287 - LEADERSHIP AND PROJECT MANAGEMENT

This course will provide students with the knowledge and skills to facilitate change, build teams with cultural awareness and understand the fundamentals of risk management as it applies to health information management leadership. A component of this course will include monitoring a service-learning project coordinated with the health care community. Curriculum includes how to plan, organize, develop and implement a project utilizing appropriate project management tools. Corequisite: HIT 272. Instructor approval required.

Credits: 2 Lecture: 2

HIT 288 - SPECIAL STUDIES: HEALTH INFORMATION TECHNOLOGY

Explores topics of current interest in the discipline.

Credits: 1 to 3

HIT 293 - DIRECTED PRACTICE II

In the realm of health information management, this is a course in which students report to a health care facility and experience planned activities in the environment of the actual workplace. Provision for technical experiences is an integral component of curricula. Provides for application of classroom and laboratory objectives in supervised affiliation sites in Oregon, typically. Performed under leadership of a registered record administrator or accredited record technician. Fulfills 60 of the 120 total DP clinical hours for the program. Total of 40 clinical hours plus 20 preparatory instruction hours are distributed in the curriculum at various points of program completion. Offered Summer term following graduation. Required prior to registration: successful completion of first-and second-year HIT curriculum.

Credits: 2 Other: 6

HIT 294 - RHIT EXAM PREPARATION

Helps prepare students for the National RHIT Examination. Students will review core curriculum identified by AHIMA as essential domains of learning and take practice exams to familiarize them with the types of questions and formats they will encounter when taking the national exam. Offered Summer term. Required prior to registration: completion of the Health Information Technology AAS degree.

Credits: 1 Lecture: 1

HIT 295 - CCA EXAM PREPARATION

This course is designed for graduates of the HIT Program to prepare them to take the national credential exam for Certified Coding Associate. The HIT Advisory Committee and local employers have indicated that potential entry-level coders will be required to obtain this credential within six months after hire. This course will provide support for student success in the workplace. Offered Summer term. Instructor approval required.

Credits: 1 Lecture: 1

HIT 296 - AMBULATORY DATA SYSTEMS

Focuses on electronic information systems in non-acute facilities with emphasis on professional medical billing and revenue cycle. Course will address healthcare insurance, legal and regulatory conditions, coding systems, reimbursement issues and filing claims utilizing electronic medical data systems. Required prior to registration: successful completion of first-year HIT curriculum. Instructor approval required.

Credits: 3 Lecture: 2 Lab: 2

HIT 297 - CURRENT TOPICS

Discusses current trends, topics and procedures affecting the medical record professional and the delivery system in general. May be repeated once.

Credits: 1 Lecture: 1

HIT 298 - INDEPENDENT STUDY: HIT

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

HIT 299 - SELECTED TOPICS: HIT

This course is in development.

Credits: 4

HISTORY

HST 101 - HISTORY OF WESTERN CIVILIZATION

Provides a framework for understanding the notion of "Western Civilization." Surveys political, social, intellectual and cultural developments in Europe from prehistoric times to the early Medieval period. Covers the ancient civilizations, the establishment of early European civilizations, and the world of the Greeks and Romans. HST 101, HST 102 and HST 103 need not be taken in sequence. Recommended preparation or recommended to be taken with: WR 121.

Credits: 4 Lecture: 4

HST 102 - EUROPE: FROM THE MIDDLE AGES TO ENLIGHTENMENT (700-1700 C.E.)

Provides a framework for understanding the notion of "Western Civilization." Surveys the development of European civilizations from the fall of the Roman Empire, continuing through the Medieval period into the early 1700s. Focuses on the cultural, religious, political and intellectual changes brought about by the Renaissance, Reformation, Enlightenment and Scientific Revolution, as well as the tensions in European society, which culminated in the French Revolution. The focus will extend from religion and politics to social class, gender and stereotypes. Need not be taken in sequence.

Credits: 4 Lecture: 4

HST 103 - EUROPE: REVOLUTION AND WAR (1789 - PRESENT)

Provides a framework for understanding the notion of "Western Civilization." Explores European civilizations from the French Revolution in 1789 to the present day. Focuses on the establishment of nations, the impact of the Industrial Revolution, nationalism and racism, colonization and the two World Wars. Concludes by questioning the differences between civilization and barbarism. Focuses on the cultural, religious, political and intellectual changes that happened between the late 18th century and the present, extending from religion and politics to social class, gender and stereotypes based on nationality or ethnicity. Need not be taken in sequence.

Credits: 4 Lecture: 4

HST 104 - ANCIENT SOCIETIES (PRE-HISTORY - 500 C.E.)

Provides a survey of the development of world civilizations and nomadic/pastoral lifestyles. Investigates cultures, politics, belief systems and lifestyles from prehistoric times through 500 C.E. Covers the origins of civilizations in the Middle East, the Mediterranean, Africa, China and the Indian subcontinent. Also covers the establishment of early European civilizations, the world of the Greeks and Romans and the Fall of Rome. Uses a comparative perspective in order to understand larger changes provoked by climate change, nomadic incursions and interactions on the Silk Road.

Credits: 4 Lecture: 4

HST 105 - THE EXPANSION OF WORLD RELIGIONS (500 - 1700)

Covers the world from 500 C.E. through early 1700s, focusing on the expansion of world religions, including Christianity, Buddhism, Hinduism and Islam. Focuses on the regions of Asia, Africa and India, and tells the story of Europe's first worldwide expansion. Looks at history from political, cultural, social and intellectual angles, using primary sources. Need not be taken in sequence.

Credits: 4 Lecture: 4

HST 106 - MODERN WORLD HISTORY: INDUSTRIALIZATION, NATIONS AND WAR (1800 - PRESENT)

Traces the impact of industrialization upon the world. Industrialization propelled colonial expansion by European powers; traces the colonizers and the colonized. The twentieth century endured two world wars, several genocides and several wars of decolonization; focuses on the cultural and intellectual trends that went along with political turmoil, industrialization and modern warfare. Need not be taken in sequence.

Credits: 4 Lecture: 4

HST 188 - SPECIAL STUDIES: HISTORY

Explores topics of current interest in the discipline.

Credits: 1 to 3

HST 199 - SELECTED TOPICS: HISTORY

This course is in development.

Credits: 1 to 4

HST 201 - EARLY AMERICA - HISTORY OF THE UNITED STATES (PRE-HISTORY TO 1820)

Provides an overview of the civilizations of North America and the United States from pre-history to the early 19th century, covering the colonial, revolutionary and early national periods. Topics include Native American

societies, the migration of Europeans and Africans and the impact on native populations, regional Protestant cultures, the emergence of racial slavery, the political origins and constitutional consequences of the American Revolution, politics, culture and war in the first few decades of existence for the United States. Need not be taken in sequence.

Credits: 4 Lecture: 4

HST 202 - 19TH AND EARLY 20TH CENTURY UNITED STATES HISTORY (1820-1920)

Provides an overview of United States history from approximately 1820 to 1920, covering the antebellum, civil war, reconstruction, gilded age and progressive periods. Topics include the Jacksonian era, territorial expansion, slavery and the Old South, the causes and consequences of the Civil War, successes and failures of Reconstruction, 19th-century society and culture, economic transformations, U.S. imperialism, progressivism and the United States entrance into World War I. Need not be taken in sequence.

Credits: 4 Lecture: 4

HST 203 - 20TH AND EARLY 21ST CENTURY UNITED STATES HISTORY (1920-PRESENT)

Provides an overview of United States history from approximately 1920 to the present, covering the modern period. Topics include the end of World War I and its consequences, modernity, the Great Depression, World War II, the Cold War, foreign policy determinants & conflicts since WWII, Civil Rights, 1960s-70s social and cultural changes, shifting economic and social role of government, feminism and changing status of women since WWII, immigration, 20th century society and culture, late 20th century politics, terrorism and other recent developments. Need not be taken in sequence.

Credits: 4 Lecture: 4

HST 204 - HISTORY OF THE CIVIL WAR

Examines problems of the Civil War period including politics, military leadership, troop life and activity, civilians, Native Americans, African-Americans, technology and unique geographic challenges in order to better understand the impact of the war on the entire nation of this "brothers' war." Recommended preparation or recommended to be taken with: WR 121.

Credits: 4 Lecture: 4

HST 207 - HISTORY OF THE AMERICAN WEST

Examines Native American tribal life, the emergence of a multicultural frontier, the problems, failures and success of new settlement patterns in the growing commercial development of the West's unique assets. Recommended preparation or recommended to be taken with: WR 121.

Credits: 4 Lecture: 4

HST 218 - NATIVE AMERICAN HISTORY

Examines Native American (or First Peoples) lifestyles before and after contact with European settlers. With increasing demands by whites and new immigrants for land, Native Americans struggled for survival implementing various tactics to retain control of their homelands and retain their unique cultures. Recommended preparation or recommended to be taken with: WR 121.

Credits: 4 Lecture: 4

HST 225 - U.S. WOMEN'S HISTORY

Survey of the problems and achievements of U.S. women from the 16th to the 20th century, including issues of race, ethnicity and class. Recommended preparation or recommended to be taken with: WR 121.

Credits: 4 Lecture: 4

HST 235 - SEXUALITY IN 20TH CENTURY EUROPE

A survey of sexual cultures, politics and practices in Europe, from the waning of Victorianism to the collapse of Communism and the rise of Islam. This course provides an understanding of how gender and sexuality have changed over the course of the tumultuous twentieth century.

Credits: 4 Lecture: 4

HST 242 - HISTORY OF THE PACIFIC NW

Overview of Native American societies of the Pacific Northwest, patterns of white movement into the area, acquisition of the region by the United States, the long road to statehood and the impact of national politics on this unique region. Recommended preparation or recommended to be taken with: WR 121.

Credits: 4 Lecture: 4

HST 258 - COLONIAL LATIN AMERICAN HISTORY

Surveys the history of economic, political and social development in Mexico, Central America and South America from the 15th century through the Wars of Independence. Recommended that HST 258 and HST 259 be taken in sequence, but not required. Recommended preparation or recommended to be taken with: WR 121.

Credits: 4 Lecture: 4

HST 259 - MODERN LATIN AMERICAN HISTORY

Surveys Latin American history in Mexico, Central and South America from the Wars of Independence through modern times. Recommended that HST 258 and HST 259 be taken in sequence, but not required. Recommended preparation or recommended to be taken with: WR 121.

Credits: 4 Lecture: 4

HST 260 - HISTORY OF ISLAMIC CIVILIZATIONS

This course covers political, social and religious developments in the Islamic world from 600 C.E. to the 1960s. It traces the formation of Islam and the establishment of the Caliphate, the impact of the Mongol invasions, the Ottoman, Mughal and Safavid Empires, and the impact of European colonization and 20th Century movements of decolonization.

Credits: 4 Lecture: 4

HST 270 - 20TH CENTURY EUROPEAN HISTORY

Introduces the intellectual, political and cultural history of 20th century European history. Studies significant events in a European context, identifying the historical setting and significance of major occurrences in Europe, such as fascism, world war, communism and decolonization. Recommended preparation or recommended to be taken with: WR 121, LIB 127.

Credits: 4 Lecture: 4

HST 280 - CO-OP WORK EXPERIENCE HISTORY

Provides experience in which students apply previous classroom learning in an occupational setting. Credits depend on the number of hours worked. P/NP grading. Instructor approval required.

Credits: 1 to 3

HST 290 - EAST ASIAN HISTORY

Traditional China as the foundation of East Asian civilization. Recommended that HST 290, HST 291 and HST 292 be taken in sequence, but not required. Recommended preparation or recommended to be taken with: WR 121.

Credits: 4 Lecture: 4

HST 291 - EAST ASIAN HISTORY

Development of Chinese, Japanese and Korean societies through the late 19th century. Recommended that HST 290, HST 291 and HST 292 be taken in sequence, but not required. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HST 292 - EAST ASIAN HISTORY

Late Imperial China, Japan and Korea and their evolution/revolution into modern nation-states. Recommended that HST 290, HST 291 and HST 292 be taken in sequence, but not required. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HST 298 - INDEPENDENT STUDY: HISTORY

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required. Credits: 1 to 4

HST 299 - SELECTED TOPICS: HISTORY

This course is in development.

Credits: 1 to 4

HOSPITALITY MANAGEMENT

HM 101 - INTRODUCTION TO HOSPITALITY

This introductory course provides an overview of the hospitality and tourism industry, its growth and development, industry segments and their distinguishing characteristics, trends and current concerns. Students are introduced to career opportunities and the employability skills needed to succeed in specific hospitality fields.

Credits: 4 Lecture: 4

HM 106 - LODGING MANAGEMENT

Covers principles of managing lodging operations. Explores current operational practices of lodging operations throughout the world. Discusses management functions related to front office, housekeeping, marketing, reservations, maintaining customer accounts, laws affecting lodging operations and typical service problems. Students will go on field trips to learn about different kinds of lodging operations throughout the state.

Credits: 3 Lecture: 3

HM 130 - HOSPITALITY INDUSTRY SUPERVISION AND PRINCIPLES OF LEADERSHIP

This course introduces the student to the skills needed to be an effective leader within the hospitality industry. Class topics will include communicating effectively, planning, organizing, goal setting, supervising teams, decision-making, equal opportunity, performance standards, motivation and performance evaluations. Students will also analyze cases, and role-play and become familiar with solving problems that relate to the industry. Students will examine the skills needed for effective leadership, the ethical dilemmas of leadership, the foundation and context of moral choice, the moral implication of decision making, and the impact upon staff morale, personal integrity and citizenship. The purpose of the course is to develop an understanding of the student's own leadership style and how that will influence the student's transition into the workforce and future career goals. Lastly students will combine the two aspects of organizational behavior - the research and its applications - to understand how they improve the functioning of organizations and the satisfaction of the people who work within them.

Credits: 4 Lecture: 4

HM 150 - PROCUREMENT, INGREDIENT IDENTIFICATION AND FOOD COST CONTROL

This course provides students an overview to the principles of cost control, product yield tests, vendor relations and procurement, and an introduction to ingredient identification and tasting. Lectures focus on the design and implementation of cost control measures and effective purchasing procedures. Students will be exposed to a basic understanding of profit and loss statements and how to track cost as it relates to the flow of food. In the lab portion of this course, students will also have the opportunity to place, receive and store food orders, conduct quality assurance on all food items and execute an electronic end-of-month inventory utilizing advanced scanning technology. As an applied learning activity, students will be directly involved in the issuing of all course ingredient and supply requisitions. Lastly this course will serve as an opportunity for industry vendors to speak with students, conduct ingredient tastings and provide updates regarding modern industry practices. Prerequisite: CUL 090.

Credits: 3 Lecture: 1 Lab: 6

HM 160 - WINE AND SPECIALTY BEVERAGE MANAGEMENT AND SERVICE

This course incorporates theoretical and practical information about the organization of a beverage program within the overall operation of a hospitality business. Topics to be covered include the legal and moral responsibilities that come with the sale of alcoholic beverages, purchasing

and marketing. Information on distillation, brewing, mixology and non-alcoholic beverage service will also be presented. Emphasis will be placed on cost control measures for beverages, inventory and sanitation laws and practices. Students will develop the skills to prepare and serve spirits, beer, coffee and tea.

Credits: 3 Lecture: 3

HM 190 - CONTEMPORARY DINING ROOM SERVICE OPERATIONS, ETIQUETTE AND GUEST RELATIONS

Expose students to the importance of service, sanitation and appearance in a real-life dining room setting. The students will experience styles of service including àla carte, reception, banquet and deluxe buffet. Other topics include covering the primary guidelines for service, guest relations, etiquette and proper phone use. Students will also be exposed to a diversity of restaurant management systems to include Micros, the restaurant Point of Sale (POS) and expediting system; OpenTable.com reservation management system, Card-at-Tableside wireless payment system, and ShiftNote.com; the internal restaurant communication system. Students will also learn about the different dining room staff positions and how they relate with the overall restaurant operation and guest experience. Proper management of tabletop flatware, china and glassware combined with table set-up will also be covered. Students will also create service experience assignments analyzing the difference between good and bad service. Students will receive the following industry certifications in this course: OLCC Alcohol Service Permit, FDRP Dining Room Associate and Wine Steward Associate Certificates, Oregon O-Service Certificate, Spotcheck Allergen Certification Certificate and the American Red Cross First Aid/CPR/AED Certification.

Credits: 5 Lecture: 2 Lab: 9

HM 210 - MENU COMPOSITION AND ANALYSIS

Analyze menu design and effectiveness for a diversity of local restaurant establishments. Topics to be covered include standardized recipes and cost cards, understanding the income statement and profit and loss statements, nutritional aspects of menu planning and design, and menu configuration. Students will analyze and critique industry menus and create menus from the perspective of concept, clarity, cost, price and efficiency. Students will also conduct an analysis of the sales mix for the Elevation Restaurant as part of a group assignment, evaluate the sales distribution of food and beverage items and conduct presentations to the Elevation staff as to how to make perspective design and offering improvements. Prerequisite: CUL 090.

Credits: 3 Lecture: 3

HM 240 - HOSPITALITY LAW

This course will acquaint the student with a managerial framework for well-founded operating decisions. Specific attention will be paid to the hotel/guest relationship, innkeeper's lien, crimes against innkeepers, overview of employment rights, policy formulation, duty to protect guests and their belongings, ejection of guests and non-guests, and will also cover an introduction to general business law dealing with torts and contracts. Issues concerning travel law will be included. Recommended preparation: WR 121, HM 101.

Credits: 4 Lecture: 4

HM 275 - MIXOLOGY AND BEVERAGE OPERATIONS

Students will have hands-on experience creating a wide variety of classic and everyday mixed drinks in a standard bar setting. Topics to be covered include bar glassware and equipment identification, pouring techniques, common cocktail mixing methods, history of distilled spirits, origin and characteristics of various distilled spirit brands, distillation process, bartenders job description and responsibilities, cost control, beverage pricing and responsible alcohol service. Required prior to registration: Oregon Liquor Control Commission (OLCC) Server Permit. Instructor approval required.

Credits: 4 Other: 8

HM 280 - HOSPITALITY MANAGEMENT INDUSTRY INTERNSHIP

Serves as a supervised work experience within the restaurant management/ hospitality industry designed to expand career knowledge and experiential confidence while increasing knowledge, speed, timing, organization and ability to execute industry skills on a repetitive basis. Students will receive a diverse work experience that is designed on a systematic rotation of different stations that relate to management functions within a restaurant or hospitality industry venue. Students can complete 100% of the experience in competencies that are relevant to the program curriculum, as it is outlined in the course syllabus and internship agreement. The internship is concluded by a final supervisor evaluation.

Credits: 6 Other: 20

HM 290 - CAREER SUCCESS AND E-FOLIO PRESENTATION

Serves as a culmination of the students' academic career at Cascade Culinary Institute. The goal of this course is to empower students as they transition across the threshold to the hospitality industry workforce and give them the tools to find and secure quality employment. During this course, students will finalize their CCI EFolio to include: updated, effective resumes, cover letters, reference letters, photos of projects and dishes prepared by the student, any class projects, final assignments and certificates received during their study at CCI and a 2-5 minute video of the student preparing/plating/decorating an item while expressing their culinary knowledge and understanding of technique. The class will meet weekly to discuss: professionalism, career opportunities, networking, volunteerism, planning and expectations, goal setting and interview techniques. Awarding of the ACF Certified Culinarian/Certified Pastry Culinarian Certificates will take place in this course to AAS degree completers. Instructor approval required. Prerequisite: CUL 170.

Credits: 2 Lecture: 2

HM 298 - INDEPENDENT STUDY: HOSPITALITY MANAGEMENT

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required. Credits: 1 to 4

HUMAN DEVELOPMENT

HD 100CS - COLLEGE SUCCESS

College Success is designed to give new students a broad overview of college and life success strategies. The course introduces students to college resources, students services and personal behaviors that support successful academic transition, growth and planning. Topics include personal responsibility, self-motivation, time management, academic planning, financial planning, decision making, health and learning styles. Credits: 3 Lecture: 3

HD 100PM - PROCRASTINATION & MOTIVATION

Introduces students to the characteristics of procrastinating behaviors. The class explores reasons for procrastination and how to self-negotiate to eliminate non-productive behaviors. Specific tools to address individual styles of procrastination will be introduced with an emphasis on identifying personal values to motivate one to action and achieve defined goals.

Credits: 1 Lecture: 1

HD 100TT - TEST TAKING

Designed for students challenged by tests or assessment materials. The class introduces students to the process of effective test taking including preparation for all types of tests and classroom assessment tools, study and relaxation techniques and actual test taking. Students will be introduced to pro-active strategies to address test anxiety, utilize test results for improved performance and access instructors for guidance and performance.

Credits: 1 Lecture: 1

HD 100VC - VALUES CLARIFICATION

Designed to assist students in defining the motivation behind their college investment and develop a compelling academic plan integrated with their personal life plan. Students will identify their key motivators (values), assess current life choices and roles in the framework of the defined values, develop a plan of action that realistically supports success, choose action steps resulting in the achievement of defined outcomes,

Course Descriptions

and develop strategies to continually reassess and measure academic/personal success.

Credits: 1 Lecture: 1

HD 101 - STUDY STRATEGIES

Emphasizes study skills, acquisition of college knowledge, resources and personal responsibility while building and using strategies for college and workplace success. Effective learning and study strategies are reviewed and practiced including text reading, note taking, test taking, listening strategies, and time management. Learning styles are identified and connected to pro-active behaviors. College resources, campus protocol and ethical student behavior are introduced and integrated with examination of self-talk and application of visualization processes to enhance confidence and self-esteem in the college environment.

Credits: 3 Lecture: 3

HD 102 - LEADERSHIP DEVELOPMENT

Teaches basic principles of leadership development and staff management in order to prepare student/staff leaders to effectively work in their assigned roles within Student Life and together as a team. Includes topics designed to increase knowledge and skills in the areas of diversity awareness, communication, conflict management, teambuilding, group development, personal awareness, time management and values clarification. As a result of this class, students will become familiar with the roles and expectations of the Student Life staff and be able to professionally represent COCC in their leadership roles on campus. Department approval required.

Credits: 2 Lecture: 2

HD 109 - EFFECTIVE JOB SEARCH STRATEGIES

Introduces students to an effective, comprehensive approach to the job search process. Students will learn how to develop a job search plan, accurately and effectively complete job applications, write resumes and cover letters accordingly, identify marketable skills, and prepare for job interviews.

Credits: 2 Lecture: 2

HD 110 - CAREER PLANNING

Provides tools and resources for making informed career decisions. Covers assessing skills, values, interests, personality, barriers, lifestyle, education and approaches to decision making. Covers how to research career information. Includes educational decision-making in determining a field or program of study, and college or training program.

Credits: 3 Lecture: 3

HD 188 - SPECIAL STUDIES: HUMAN DEVELOPMENT

Explores topics of current interest in the discipline.

Credits: 1 to 3

HD 190 - OLI LEADERSHIP SKILLS I

HD 190 is the first in a 3-quarter series. This first quarter lays the foundation for the series by providing high school students with activities that encourage them to: establish personal and team goals, develop effective teamwork skills, explore and articulate their cultural identity, explore aspects of leadership including varying styles, qualities and cultural implications. Interaction with college mentors prepares students of varying races and ethnicities to embrace post-secondary education as both desirable and attainable. Instructor approval required.

Credits: 1 Other: 2

HD 191 - OLI LEADERSHIP SKILLS II

HD 191 is the second in a three-quarter series. Building upon the foundation of leadership and teamwork considered in a cultural context, high school students explore issues of personal responsibility, strategies for advocacy and organizing, and opportunities for developing intercultural awareness. Interaction with college mentors expands to focus on the college challenges, requirements, tools for success and the application process. Instructor approval required.

Credits: 1 Other: 2

HD 192 - OLI LEADERSHIP SKILLS III

HD 192 is the third in a 3-quarter series. It provides high school students with opportunities to explore and attain skills in leadership, teamwork, communication and conflict resolution. Interaction with college mentors prepares students of varying races and ethnicities to embrace post-secondary education as a viable option. Instructor approval required.

Credits: 1 Other: 2

HD 199 - SELECTED TOPICS: HUMAN DEVELOPMENT

This course is in development.

Credits: 1 to 4

HD 298 - INDEPENDENT STUDY: HUMAN DEVELOPMENT

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

HUMAN SERVICES/ADDICTIONS STUDIES

HS 101 - ORIENTATION TO HUMAN SERVICES

Introduces the human services profession. Helps students evaluate their fit within the human services field. Highlights self-understanding and individual compatibility with human services occupations. Emphasizes prevention, early intervention concepts and programs, significance of social justice and multicultural equity.

Credits: 3 Lecture: 3

HS 161 - ETHICS FOR HUMAN SERVICES

Covers principles and issues of professionalism and ethics in human services. Students will explore how to set and maintain professional boundaries. Relates abstract ethical principles to tangible examples and will offer a practical framework for analyzing ethical issues. Prerequisites: HS 101, MTH 031 or higher and choose one of WR 121, WR 122 or WR 227.

Credits: 4 Lecture: 4

HS 162 - EFFECTIVE HELPING SKILLS I

Introductory course for people interested in pursuing a career in the helping professions or who may be working in a helping role now. Students practice basic interviewing skills, learn to create a helping climate and organize and conduct an informational interview. Introduces students to basic interaction, referral, interviewing and listening skills. Prerequisites: HS 101, MTH 031 or higher and choose one of WR 121, WR 122 or WR 227.

Credits: 4 Lecture: 4

HS 180 - HIV, AIDS AND ADDICTIONS

Provides a thorough investigation of HIV/AIDS epidemic and expectations of professionals in dealing with it. Covers epidemiology, HIV/AIDS related policy, effects of chemical dependency and chemical use in promoting the spread of HIV infection, routes of exposure to the virus and the manner in which various populations are infected and treated. Guidelines and directives for counseling individuals who are HIV seropositive and those at high risk for HIV infection.

Credits: 2 Lecture: 2

HS 199 - SELECTED TOPICS: HUMAN DEVELOPMENT

Credits: 1 to 4

HS 200 - ADDICTIVE BEHAVIOR

Provides a broad overview of the field of addictions through a look at the issues and treatments involved. Includes history, prevention regarding alcohol, drugs, nicotine, eating disorders, depression and relapse prevention. Recommended preparation or recommended to be taken with: WR 121.

Credits: 3 Lecture: 3

HS 201 - FAMILIES AND ADDICTIONS

Designed for people who are training to become chemical dependency counselors or for current counselors who are seeking to increase their knowledge base. Focuses on basic theory, technique and experience in doing family therapy with families of addicts. Primary models of family therapy used will be systemic and structural. Recommended preparation or recommended to be taken with: WR 121.

Credits: 3 Lecture: 3

HS 205 - YOUTH AND ADDICTIONS

Provides a beginning knowledge of child/adolescent development and results in an understanding of the effects of substance abuse on that development. Covers the signs of substance abuse and addiction, describes assessment, treatment, prevention philosophies, protocols and models, describes recovery and covers relapse prevention and the signs of relapse in young people. Recommended preparation: WR 121.

Credits: 3 Lecture: 3

HS 206 - GROUP COUNSELING SKILLS FOR HUMAN SERVICES

Provides strategies from accepted and culturally appropriate models for facilitating group counseling with clients with a variety of disorders including substance abuse. Focuses on the ethical use of groups as an effective therapeutic intervention. Addresses leadership behaviors, group formation, group stages; common and difficult therapeutic problems also addressed.

Credits: 4 Lecture: 4

HS 208 - MULTICULTURAL ISSUES IN HUMAN SERVICES

Highlights the impacts of cultural differences on both client and human service provider. Examines the major categories of diversity, heritage, biases and stereotypes and how these might impact client treatment. Identifies cultural expectations that may lead to value imposition. Examines how knowledge of diversity issues can be essential to the counselor in communications, treatment planning and implementation. Prerequisites: HS 101, MTH 031 or higher and choose one of WR 121, WR 122 or WR 227.

Credits: 4 Lecture: 4

HS 209 - INTRODUCTION TO PSYCHOLOGICAL TRAUMA: THEORY AND PRACTICE

Introduction to types, history, and impact of trauma on individuals, family and community. Explores the impact on those working with trauma survivors and inadvertent re-traumatization of victims that occurs by the social service system. Introduces crisis management strategies in the context of a trauma informed practice. Provides a framework for crisis recognition/response and intervention for people experiencing trauma symptoms. Students will analyze as well as practice using a trauma informed framework designed for multiple settings. Utilizes trauma informed and wellness informed approaches. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HS 210 - DUAL DIAGNOSIS

Introduces clinical presentation and management of dually diagnosed chemical abusers. The complex interplay of psychiatric illness and substance abuse in clients with depression, anxiety, schizophrenia, as well as other conditions, will be explored. Students will become familiar with diagnostic criteria as well as chemical dependency. Treatment strategies for addressing the needs of the dually diagnosed will be presented. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HS 224 - PSYCHOPHARMACOLOGY

This course covers the knowledge required to pass the pharmacology section of the Certified Alcohol and Drug Counselor I (CADC) exam. It includes the ways drugs are used, controlled and valued culturally, how the human body functions normally, including knowledge of cells, nerve cells and basic bodily systems (i.e. respiratory, circulatory, endocrine and digestive, how drugs are absorbed, distributed, metabolized and excreted and how drugs affect these systems).

Credits: 4 Lecture: 4

HS 250 - PROCESS ADDICTIONS

Provides a broad overview of process addictions including a look at the issues and treatments involved. Process addictions are defined as addiction to certain mood-altering behaviors, actions or routine of actions such as gambling, eating, shopping, working or sexual activities. Recommended preparation or must be taken with: WR 121.

Credits: 4 Lecture: 4

HS 260 - COUNSELING THEORIES

Introduces major counseling theories that have demonstrated effectiveness with a variety of mental health issues including substance abuse disorders. Includes an overview of 10 specific theories (including affective, behavioral and cognitive approaches), their founders, key concepts, techniques and appropriate applications. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HS 262 - EFFECTIVE HELPING SKILLS II

Introduces students to intentional interviewing/motivational interviewing as a foundation for developing basic counseling skills. Focus will be on developing more intensive counseling skills with significant opportunity for hands-on practice. Videotaping is used extensively. Recommended preparation: HS 162 or instructor approval.

Credits: 4 Lecture: 4

HS 263 - COUNSELING THE CHEMICALLY DEPENDENT CLIENT

Trains students in a systematic approach to screening, assessing and treatment planning. Goal is to determine the most appropriate course of action given the client's needs and characteristics and the available resources. This is a collaborative, ongoing process in which the counselor and the client develop desired treatment outcomes and identify strategies to achieve them.

Credits: 3 Lecture: 3

HS 266 - CASE MANAGEMENT FOR THE CHEMICALLY DEPENDENT CLIENT

Provides foundation skills to successfully manage client cases in a treatment setting. Includes skills in the ASAM Criteria including client assessment, treatment planning, treatment plan review, writing of clinical progress notes, treatment summary and discharge planning and coordination with other agencies. Recommended to be taken with WR 121.

Credits: 4 Lecture: 4

HS 290 - INTRODUCTION TO INTERNSHIP IN HUMAN SERVICES

This is an introduction to practicum and should be taken at least one term before the practicum. The goal of this course is to prepare students for a successful practicum. In this course students will develop their resume, job search and job interviewing techniques and research possible internship sites.

Credits: 1 Lecture: 1

HS 291 - PRACTICUM IN HUMAN SERVICES I

Practicum is closely supervised opportunity to implement professional skills, knowledge and attitudes presented in prior Human Services coursework. Provides experience working on-site in a human service agency to integrate field and classroom experience. Students also attend a weekly seminar and meet individually with both the practicum instructor and the site supervisor throughout the quarter. Students are required to have a placement confirmed prior to the term they decide to begin. Addiction Studies students must have completed HS 161, HS 162, HS 206 and HS 290 prior to enrolling in this class. Note: 1,000 hours supervised experience are required before taking the Oregon Certified Alcohol and Drug Counselor I (CADC) exam.

Credits: 4 Lecture: 1 Other: 9

HS 292 - PRACTICUM IN HUMAN SERVICES II

This second-term practicum is more comprehensive and provides an opportunity to develop more advanced skills. Addiction Studies students must have completed HS 161, HS 162, HS 206 and HS 291 prior to enrolling in this class. With instructor approval only, students may

co-enroll in HS 291. Note: 1,000 hours supervised experience are required before taking the Oregon Certified Alcohol and Drug Counselor I (CADC) exam.

Credits: 4 Lecture: 1 Other: 9

HS 293 - PRACTICUM IN HUMAN SERVICE III

This third-term practicum is more comprehensive and provides an opportunity to develop more advanced skills. Addiction Studies students must have completed HS 161, HS 162, HS 206, HS 291 and HS 292 prior to enrolling in this class. With instructor approval only, students may co-enroll in HS 292. Note: 1,000 hours supervised experience are required before taking the Oregon Certified Alcohol and Drug Counselor I (CADC) exam. Course may be repeated for credit.

Credits: 4 Lecture: 1 Other: 9

HS 298 - INDEPENDENT STUDY: HUMAN SERVICES

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

HS 299 - SELECTED TOPICS: HUMAN SERVICES

This course is in development.

Credits: 1 to 6

HUMANITIES

HUM 105 - ITALIAN LIFE AND CULTURE

Offered as a required course in the Florence Quarter study abroad program. The student will gain a broad overview of contemporary Italian society by examining cultural traditions and values. Besides topical lectures by native guest lecturers, the course engages students in experiential learning through field trips to such historic and cultural sites as Etruscan Fiesole, the Uffizi Gallery, the Accademia Museum and the Medici Pitti Palace. (Elective only: does not satisfy general education requirement.)

Credits: 2 Lecture: 2

HUM 106 - BRITISH LIFE AND CULTURE

Offered as a required course in the London Quarter study abroad program. The student will gain a broad overview of contemporary British culture and society by examining traditions and institutions that impact the British way of life in the twenty-first century. Besides topical presentations by native guest lecturers, the course engages students in experiential learning through field trips to such historic and cultural sites as the Museum of London, the National Gallery, Shakespeare's Globe Theatre and the Houses of Parliament.

Credits: 3 Lecture: 3

HUM 107 - SPANISH LIFE AND CULTURE

Offered as a required course in the Barcelona Quarter study abroad program. The student will gain a broad overview of contemporary Spanish society by examining cultural traditions and values. Besides topical lectures by native guest lecturers, the course engages students in experiential learning through field trips to such historic and cultural sites as Gaudi's Barcelona, the Gothic quarter and the Dali museum. (Elective credit only: does not satisfy general education requirements.)

Credits: 3 Lecture: 3

HUM 188 - SPECIAL STUDIES: HUMANITIES

Explores topics of current interest in the discipline.

Credits: 1 to 4

HUM 199 - SELECTED TOPICS: HUMANITIES

This course is in development.

Credits: 1 to 4

HUM 210 - CULTURE AND LITERATURE OF ASIA

Introductory study of representative literary texts, films and related language arts, in English or in translation, of Asian regions and countries,

such as China, India and Japan, examined in the context of their histories and cultural traditions. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HUM 211 - CULTURE AND LITERATURE OF AFRICA

Introductory study of representative oral arts, literature, film and related creative arts, in English or in translation, of sub-Saharan African peoples, examined in context of their histories and cultural traditions. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HUM 212 - CULTURE AND LITERATURE OF THE AMERICAS

Interdisciplinary study of representative literary and historical texts (and other media) from Hispanic and Afro-Caribbean cultures of traditional, colonial and post-colonial origin. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HUM 213 - CULTURE AND LITERATURE OF MIDDLE EAST

Introductory study of representative Arabic, Persian and Hebrew literary texts in translation, placed in the context of films and other cultural media of the Middle East and Northern Africa. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HUM 230 - IMMIGRANT EXPERIENCE AMERICAN LITERATURE

Introductory survey of the immigrant experience in the United States as reflected in literature, autobiography and film. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HUM 240 - NATIVE AMERICAN LITERATURE AND CULTURE

Introduction to traditional oral and contemporary Native American texts with an emphasis on cultural contexts and continuity. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HUM 255 - CULTURAL DIVERSITY IN CONTEMPORARY AMERICAN LITERATURE

This course examines cultural diversity as recorded in American literature since 1965, emphasizing literary and cultural values in poetry, fiction and drama. Readings focus on writers' views of life within historically marginalized groups based on ethnicity, gender and sexual identity. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HUM 256 - INTRODUCTION TO AFRICAN-AMERICAN LITERATURE

Survey of African-American literature (selected fiction, autobiography, poetry and drama of the 19th and 20th centuries), placed in the context of major African-American achievements in the visual arts, music and film. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HUM 261 - POPULAR CULTURE: SCIENCE FICTION

Focuses on the significance of science, technology and on such topics as the idea of the future and the "limits of the human" as revealed in popular culture through genres such as fiction, film, music, comics, anime and manga and advertising. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HUM 262 - POPULAR CULTURE: THE AMERICAN WESTERN

Historical study of the Western story and the cowboy hero in American culture through genres such as fiction, film, song, art and advertising. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HUM 263 - POPULAR CULTURE: DETECTIVE STORIES

Historical study of crime stories and the detective figure as revealed in popular culture through genres such as fiction, film, television, comics and journalism. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

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HUM 264 - POPULAR CULTURE: SPY THRILLER

Thematic study of espionage stories and the spy figure, as revealed in popular culture through genres such as fiction, film, advertising and journalism. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HUM 265 - POPULAR CULTURE: NOIR FILM AND FICTION

Historical, thematic and technical study of film noir and related fiction as a subversive force in popular culture. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HUM 266 - POPULAR CULTURE: TRAVEL LITERATURE

Cross-cultural study of travel as exploration, personal narrative, anthropological inquiry and social criticism of places and peoples represented as "other" or "exotic." Examines popular culture as depicted in genres such as travel memoirs, journalism, advertising, educational videos and feature films that critique touristic assumptions. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HUM 268 - DIGITAL GAMES CULTURE

This course will approach digital games through an academic sociocultural lens, identifying key elements of evolving game studies theory, which considers digital game design, digital games play and digital games as a cultural practice that, in addition to play/entertainment, offers a new and developing medium for story-telling and learning. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HUM 269 - POPULAR CULTURE GRAPHIC NOVELS

Examines the role of comic books and graphic novels as cultural and artistic creations in popular culture and literature. Identifies a vocabulary for discussing, explaining, writing and analyzing comics. Explores relevant social and historical events in the development of comics. May include comics to film comparisons or principal author studies. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

HUM 299 - SELECTED TOPICS: HUMANITIES

This course is in development.

Credits: 1 to 4

ITALIAN

IT 101 - FIRST YEAR ITALIAN I

Designed for beginners. Emphasizes active communication in Italian. Develops students' basic skills in listening, reading, writing and speaking in Italian. Successful completion of this sequence prepares students for entry into second-year level at COCC or any other university. Should be taken in sequence. Students who have previously learned Italian should contact the instructor for advice on which class to take. This class is intended for students who have no knowledge of Italian.

Credits: 4 Lecture: 4

IT 102 - FIRST YEAR ITALIAN II

Continues the development of reading, writing, listening and speaking skills. Students are expected to have completed IT 101 material, and are encouraged to review Italian 101 concepts and vocabulary prior to class. Recommended preparation: IT 101, one year of high school Italian, or instructor approval. Course should be taken in sequence. Students who have previously learned Italian should contact the instructor for advice on which class to take.

Credits: 4 Lecture: 4

IT 103 - FIRST YEAR ITALIAN III

Continues the development of reading, writing, listening and speaking skills. Students are expected to have completed IT 102 material, and are encouraged to review the concepts of IT 101 and 102 prior to class. Recommended preparation: IT 102, two years of high school Italian, or

instructor approval. Course should be taken in sequence. Students who have previously learned Italian should contact the instructor for advice on which class to take.

Credits: 4 Lecture: 4

IT 199 - SELECTED TOPICS: ITALIAN

This course is in development.

Credits: 4

IT 201 - SECOND YEAR ITALIAN I

Continues the work of first year Italian, reviewing, expanding and perfecting pronunciation, structure and vocabulary for the purpose of active oral and written communication. Increasing emphasis on writing and reading skills. Culture, regionalisms and history incorporated; course taught mostly in Italian. Recommended prerequisite: IT 103 or equivalent. Should be taken in sequence. May not be offered every year.

Credits: 4 Lecture: 4

IT 202 - SECOND YEAR ITALIAN II

Continues the work of IT 201, reviewing, expanding and perfecting pronunciation, structure and vocabulary for the purpose of active oral and written communication. Increasing emphasis on writing and reading skills. Culture, regionalisms and history incorporated, course taught mostly in Italian. Recommended prerequisite: IT 201 or equivalent. Should be taken in sequence. May not be offered every year.

Credits: 4 Lecture: 4

IT 203 - SECOND YEAR ITALIAN III

Continues the work of IT 202, reviewing, expanding and perfecting pronunciation, structure and vocabulary for the purpose of active oral and written communication. Increasing emphasis on writing and reading skills. Culture, regionalisms and history incorporated; course taught mostly in Italian. Recommended prerequisite: IT 202 or equivalent. Should be taken in sequence. May not be offered every year.

Credits: 4 Lecture: 4

IT 298 - INDEPENDENT STUDY: ITALIAN

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

IT 299 - SELECTED TOPICS: ITALIAN

This course is in development.

Credits: 4

JOURNALISM

J 188 - SPECIAL STUDIES: JOURNALISM

Explores topics of current interest in the discipline.

Credits: 1 to 3

J 199 - SELECTED TOPICS: JOURNALISM

This course is in development.

Credits: 1 to 4

J 215 - PUBLICATIONS LAB

Practical application of communications instruction through work on the student newspaper. Students are involved in all areas of production including reporting, photojournalism, advertising, production and distribution. Recommended prerequisite or recommended to be taken with: J 216.

Credits: 1 Lab: 3

J 216 - REPORTING 1

A beginning class in newswriting. Emphasis is placed on writing leads, developing the story and a sense for news. Character and communication of news and the rights and responsibilities of journalists explored. Open to all students. Recommended preparation: WR 121 or instructor approval.

Credits: 3 Lecture: 3

Course Descriptions

J 217 - REPORTING 2

A continuation of Reporting 1 with emphasis placed on comprehensive news story writing, covering speeches and meetings and interviewing. Recommended preparation: J 216 or instructor approval.

Credits: 3 Lecture: 3

J 280 - JOURNALISM PRACTICUM

Community work experience in journalism (may include internships in local media).

Credits: 1 to 3

J 298 - INDEPENDENT STUDY: JOURNALISM

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

J 299 - SELECTED TOPICS: JOURNALISM

This course is in development.

Credits: 1 to 4

KIKSHT

KIK 101 - FIRST YEAR KIKSHT NATIVE LANGUAGE I

Beginning Kiksht introduces students to the Kiksht language of the Wasco people. The first term will introduce students to alphabet characters, sounds and simple phrases. One of the techniques used to learn the language will be Total Physical Response© (TPR), which is an adopted method used by indigenous language teachers to hear and respond to verbal commands in the target language.

Credits: 4 Lecture: 4

KIK 102 - FISRT YEAR KIKSHT NATIVE LANGUAGE II

Beginning Kiksht introduces students to the Kiksht language of the Wasco people. The second term will build on student knowledge of alphabet characters, sounds and phrases. One of the techniques used to learn the language will be Total Physical Response© (TPR), which is an adopted method used by indigenous language teachers to hear and respond to verbal commands in the target language.

Credits: 4 Lecture: 4

KIK 103 - FISRT YEAR KIKSHT NATIVE LANGUAGE III

Beginning Kiksht introduces students to the Kiksht language of the Wasco people. The third term will focus on developing student ability to communicate meaningful phrases in predictable and culturally appropriate settings with particular attention to introducing students to verb affixes indicating aspect and tense. One of the techniques used to learn the language will be Total Physical Response© (TPR), which is an adopted method used by indigenous language teachers to hear and respond to verbal commands in the target language.

Credits: 4 Lecture: 4

KIK 298 - INDEPENDENT STUDY: KIKSHT

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

LIBRARY & INFORMATION SKILLS

LIB 100 - INTRODUCTION TO FINDING INFORMATION

Students will learn how to find, evaluate and responsibly use web-based and other information resources for college level research. This course is for those who want an introduction to information resources and research skills.

Credits: 1 Lecture: 1

LIB 127 - INFORMATION RESEARCH SKILLS

Library 127 teaches college-level research and information skills including finding and accessing resources in physical and digital formats; developing topics and research strategies; learning and applying advanced search techniques; exercising critical thinking to evaluate information and using the internet as a research tool.

Credits: 3 Lecture: 3

LIB 199 - SPECIAL TOPICS: LIBRARY

This course is in development.

Credits: 1 to 3

LIB 227 - MAPPING INFORMATION WORLD

This course familiarizes students with the world of information and research. Students become familiar with various issues related to the "information society" as well as the world of research. Specifically, the course addresses the impact of information in our lives, the life cycle and characteristics of information as it transforms in different publication formats, use and selection of information tools based on the nature of research need, the explosion and implications of web 2.0 technology and ethical issues in the use of information with specific reference to issues of plagiarism and proper citation.

Credits: 1 Lecture: 1

LIB 299 - SPECIAL TOPICS: LIBRARY

This course is in development.

Credits: 1 to 3

MANUFACTURING

MFG 100 - MANUFACTURING ORIENTATION

Provides new MATC students with the required information before participating in self-directed learning at MATC. Includes understanding MATC procedures, safety, manufacturing careers, introduction to lean manufacturing and computer login procedures.

Credits: 1 Lecture: 1

MFG 101 - BLUEPRINT READING

Provides student with training to read and interpret various types of industrial blueprints. Includes interpretation of line types, geometric tolerancing and dimensioning, surface finish callouts, auxiliary views and orthographic projection. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 102 - BLUEPRINT READING SHEET METAL

Provides student with training to read and interpret various types of sheet metal blueprints. Covers line and print development, sheet metal layout, pattern drafting and bend allowances, maximum utilization of material, identification of sheet metal types and grades, correct use of sheet metal for the application and sheet metal bend and shear strengths. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 103 - WELDING TECHNOLOGY I

Introductory course covering basic welding processes. Includes relevant safety topics and introduction to shielded metal arc welding and gas metal arc welding. Recommended preparation: MFG 100 and instructor approval.

Credits: 3 Lab: 9

MFG 105 - WELDING TECHNOLOGY II

Intermediary course focused on welding carbon steel plate in specific outof-position set-ups. Includes continuing practice in GMAW and SMAW welding and interpretation of inspection standards related to weld quality. Recommended preparation: MFG 100 and instructor approval.

Credits: 3 Lab: 9

MFG 107 - WELDING TECHNOLOGY III

Final course offered in the basic welding technology series. Includes welding practice utilizing electrodes F-1 through F-4 in the SMAW process

and introduction to gas tungsten arc welding and flux core arc welding. Recommended preparation: MFG 100 and instructor approval.

Credits: 3 Lab: 9

MFG 109 - LEAN PRACTICES

Lean practices are methods used to eliminate waste in any process to which they are applied. This course provides students with an understanding of lean practices commonly used in industry including: value stream mapping, standardized work, 5S, structured problem solving, visual factory, Kanban/pull systems other lean tools. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lecture: 2

MFG 110 - MANUFACTURING PROCESSES I

Overview of manufacturing theory and manual operation of machine tools. Includes safety, using hand tools, bandsaw, drill press, lathe and milling machine operations. Recommended preparation: MFG 100 and instructor approval.

Credits: 3 Lab: 9

MFG 112 - MANUFACTURING PROCESSES II

Continued student proficiency development in machining operation including speed and feed calculations, milling machine and lathe practice. Recommended preparation: MFG 100 and instructor approval.

Credits: 3 Lab: 9

MFG 114 - MANUFACTURING PROCESSES III

Final course in the basic manufacturing processes series. Continued student proficiency development in the operation of basic machine tools, introduction to computer numerical control programming and operations, and a capstone project to demonstrate machining proficiency. Recommended preparation: MFG 100 and instructor approval.

Credits: 3 Lab: 9

MFG 115 - DESIGN PROCESSES I

Introduction to computer-aided manufacturing. Includes interpretation and construction of technical drawings and technical sketching. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 116 - MANUFACTURING ELECTRICAL SYSTEMS

Studies electrical circuitry and components used in manufacturing applications. Includes introductory AC/DC electrical circuit construction and Ohm's Law. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 118 - FLUID POWER SYSTEMS I

Introductory fluid power class. Includes single/double-acting cylinder operations, directional control valve operations, fluid power symbols and the creating of operational hydraulic and pneumatic circuits. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 133 - QUALITY ASSURANCE

An introductory quality control course that includes precision and semi-precision measuring, digital measuring tool operations, measuring practice using digital gauges, micrometers, depth gauge and height gauge measuring tools. The course also includes an introduction to statistical process control and pneumatic gauging topics. Recommended preparation: MFG 100 and instructor approval.

Credits: 3 Lab: 9

MFG 160 - MATERIALS ENGINEERING

A continuation of Quality Assurance topics focused on materials. Includes shear, hardness, tensile and compression testing and other material analyzing techniques. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 199 - SELECTED TOPICS: MANUFACTURING

Offers selected topics of study through workshops and independent study format. Provides opportunities for students to investigate topics

of interest beyond what is covered in current degree. Instructor approval required.

Credits: 1 to 3

MFG 201 - BENCH WORK

Using hand tools, files, hacksaw, chisels and coated abrasives. Includes shop safety, hand tapping, thread measurement, arbor press operations, micrometer and vernier caliper reading. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 202 - METALS PREPARATION

Bandsaw, cold saw auto stop operations, ironworker hole punching and abrasive power tool operations. Includes safety, profile cutting, shearing, material identification, blade welding, blade selection and offhand grinding operations. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 203 - LAYOUT

Semi-precision and precision layout practices. Includes height gauge operations, surface plate set-ups, bolt circle layout and the use of hand and power tools to produce accurate workpiece profiles. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 205 - DRILL PRESS

Drill press operations training. Includes safety, machine nomenclature, measuring and sharpening drills, machine set-up, cutting tool selection, magnetic based drill, electric drill motor and radial arm drill operations. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 206 - SURFACE GRINDING I

Horizontal grinding machine operations. Includes machine nomenclature, chucking methods, wheel dressing, workpiece setups and cutting operations. Instructor approval required.

Credits: 2 Lab: 6

MFG 210 - VERTICAL MILLING

Vertical milling machine operations. Includes safety, work holding, table set-ups, power feeds, digital read-out operation, cutter selections, climb and conventional cutting and spindle speed changes. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 211 - CNC MILL OPERATOR

Computer numerical control machining center operator training. Includes safety, machine maintenance, tool offsets, controller editing and operations, cutting tool set-ups, carbide insert and holders and part running. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 213 - CNC TURNING OPERATOR

Computer numerical control turning center operator training. Includes safety, machine maintenance, coordinate systems, tool length offsets, controller editing and operations, overrides, tool set-ups and loading, carbide insert and holder selections, tool vectors and part running. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 214 - LATHE OPERATOR I

Introductory manual lathe operations training. Includes safety, machine maintenance, quick-change tooling, chuck set-ups, compound taper cutting, general turning and drilling operations. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 216 - LATHE OPERATOR II

Advanced lathe operations training. Four-jaw chucking, taper turning, carbide cutting tool selections, boring, single point threading, thread measurement and other precision turning operations. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 230 - CNC PROGRAMMING MILL

Programming computer numerical control mills and machining centers. Includes G & M programming, canned cycles, subroutines, profile milling, cutter diameter compensation, part proofing. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 232 - CNC PROGRAMMING LATHE

Programming computer numerical control turning center. Includes G & M manual programming, canned cycles, subroutines, profile shaping, TNR, tool vectors, cutter selection and part proofing. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 234 - CAD/CAM MILL

CAD/CAM operations related to programming a computer numerical control machining center. Includes drilling 2 1/2 D and 3-D milling operations using wire frame and solids model geometry. A student considering this course should be familiar with CNC milling machine operations and G & M programming. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 236 - CAD/CAM LATHE

CAD/CAM operations related to programming computer numerical control turning centers. Includes drilling, grooving and threading operations using wire frame and solids model geometry. A student considering this course should be familiar with CNC lathe operations and G & M programming. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 238 - OPTICAL COMPARATOR

Optical comparator operations. Includes operation of H-14 metrology controller, stage set-up and fixturing, inspection of rectangular and round workpieces. Recommended preparation: MFG 100 and instructor approval.

Credits: 1 Lab: 3

MFG 239 - COORDINATE MEASUREMENT MACHINE

Coordinate measuring machine operations. Includes establishment of part coordinate systems, touch probe calibration procedures and measuring workpiece geometry. Recommended preparation: MFG 100 and instructor approval.

Credits: 1 Lab: 3

MFG 241 - ELECTRIC MOTOR CONTROL

Peripheral devices used to control motors. Includes study of components used to control industrial motors and automated systems. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 242 - PROGRAMMABLE LOGIC CONTROLLERS I

Introduction to programmable logic controller programming. Includes ladder logic, sealing circuits and event sequencing. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 243 - INDUSTRIAL SENSORS

Study of mechanical, electronic and proximity sensor applications found in a typical manufacturing environment. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 244 - PROGRAMMABLE LOGIC CONTROLLERS II

Continuation of programmable logic controller training. Includes advanced programming problems, discrete IO interfacing, PLC timers and counters. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 245 - ELECTRICAL CONTROL/FLUID POWER

Electrical control of pneumatic and hydraulic circuits. Includes pressure valves, sensors, interfacing with PLC, control sequencing, timing and circuit design. Instructor approval required.

Credits: 2 Lab: 6

MFG 246 - MECHANICAL TROUBLESHOOTING

This course is an overview of mechanical drive systems and safety, key fasteners, power transmission systems, lubrication concepts, plain bearings, ball bearings, roller bearings, and gaskets and seals. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 250 - ADDITIVE MANUFACTURING

This course provides students with a basic understanding of additive manufacturing concepts including various processes used in rapid prototyping. Students will be able to design and create sample parts using a 3-D printing process. Recommended preparation: MFG 100, CIS 135S1 and instructor approval.

Credits: 2 Lab: 6

MFG 254 - MANUFACTURING JIGS AND FIXTURES

Jig and fixture design practices. Includes clamps, locators, degrees of freedom, radial and conical locators, templates, automated clamping and modular fixturing. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 262 - WELDING INSPECTION/QUALITY CONTROL

Studies quality control issues related to weld joint inspection. Includes student exposure to visual and nondestructive inspection techniques that are utilized by welders and inspectors to interpret and monitor AWS quality standards. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 264 - AUTOMATED WELDING AND CUTTING

Cutting and welding steel shapes using numerically controlled processes. Includes cutting torch settings, set-up, maintenance practices and plasma-cutting exercises. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 266 - MANUFACTURING COST ESTIMATION

Cost estimation techniques used in the analysis and planning of manufacturing projects. Includes software estimates, manufacturing costs, standard vs. actual costs, fixturing and welding-related topics. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 267 - OXYGEN-FUEL AND PLASMA CUTTING

Gas torch, air carbon arc and plasma gas cutting. Includes torch set-up and maintenance, flame setting, diagnostics, track torch operations, circle cutting and carbon arc scarfing practice. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 271 - SMAW I

Shielded metal arc welding. Includes machine set-up, fillet and groove welds on plain carbon steel in all positions. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 272 - GMAW I

Gas metal arc welding. Includes machine set-up for short-circuiting and spray transfer on plain carbon steel. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 273 - SMAW II

Shielded metal arc welding. Includes machine set-up, groove welds on plain carbon steel plate, stainless steel plate and pipe. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 274 - GMAW II

Gas metal arc welding. Includes machine set-up for groove welds on plain carbon steel pipe and plate and aluminum plate. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 275 - SMAW III

Shielded metal arc welding. Includes machine set-up, groove welds on plain carbon steel to a limited plate thickness of 3/4" and pipe in all positions. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 276 - GMAW III

Gas metal arc welding. Includes machine set-up, groove welds on plain carbon steel and stainless steel in all positions. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 280 - CO-OP WORK EXPERIENCE MANUFACTURING

Credit granted for applicable on-the-job work experience. Minimum of 90 hours of work for the three credits granted. Recommended preparation: MFG 100 and instructor approval.

Credits: 1 to 3

MFG 281 - GTAW I

Gas tungsten arc welding. Includes machine setup for fillet and groove welds on plain carbon steel in all positions. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 282 - FCAW I

Flux core arc welding. Includes machine set-up for fillet and groove welds on plain carbon steel in all positions. Limited thickness to 3/4" plate. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 283 - GTAW II
Gas tungsten arc welding. Includes machine set-up for fillet and groove welds on plain carbon steel, aluminum, stainless steel tubing and plate in all positions. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 284 - FCAW II

Flux core arc welding. Includes machine set-up for fillet and groove welds on pipe and plain carbon steel plate to a limited plate thickness to 3/4". Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 285 - GTAW III

Gas tungsten arc welding. Includes machine set-up, groove welds on plain carbon, aluminum and stainless steel pipe in all positions. Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 286 - FCAW III

Flux core arc welding. Includes machine set-up and groove welds on plain carbon steel plate and pipe in limited positions to a plate thickness of less than 3/4". Recommended preparation: MFG 100 and instructor approval.

Credits: 2 Lab: 6

MFG 287 - CNC PRESS BRAKE AND SHEARING

Covers safety and operation of equipment utilized in parting, forming and fabricating sheet metal. Recommended preparation: MFG 100 and instructor approval.

Credits: 3 Lab: 9

MFG 288 - INDUSTRIAL FABRICATION

Sheet metal fabrication focusing on proper fit techniques, length and width allowances, welding processes, utilization of jigs and fixtures, and the use of fasteners. Recommended preparation: MFG 100 and instructor approval.

Credits: 3 Lab: 9

MFG 289 - MATERIAL HANDLING-FORK LIFT SAFETY

Focuses on identifying and ordering sheet metal materials plus the safe storage and handling of those materials. Includes OSHA safety regulations and fork lift operation and safety. Recommended preparation: MFG 100 and instructor approval.

Credits: 1 Lab: 3

MFG 290 - CERTIFICATION TEST PREPARATION AWS I

Testing materials preparation for Level One Weld Certification Testing. Includes materials test sample preparation, set-up, testing, grinding samples and evaluation. Recommended preparation: MFG 100 and instructor approval.

Credits: 1 Lab: 3

MFG 291 - CERTIFICATION TEST PREPARATION NIMS I

Testing materials preparation for Level One NIMS Certification Testing. Includes materials test workpiece preparation, set-up, testing and evaluation activities. Recommended preparation: MFG 100 and instructor approval.

Credits: 1 Lab: 3

MASSAGE THERAPY

LMT 101 - INTRODUCTION MASSAGE THERAPY CAREER

Explore the education and academic requirements of the LMT program and the requirements for massage therapy licensure in Oregon.

Credits: 1 Lab: 2

LMT 113 - KINESIOLOGY FOR MASSAGE THERAPY I

Provides an introduction and overview of the basic principles of kinesiology. Emphasizes anatomical terminology, skeletal anatomy and function, the study of joints and their functions, and palpation skills. This is the first in a three-part series of kinesiology for massage therapists. Prerequisites: minimum placement scores resulting in WR 121 placement or completion of WR 065 or higher, placement into MTH 020 or completion of MTH 010 or higher and completion of one of BI 121 or BI 122 or BI 231. Corequisites: LMT 130, LMT 155, LMT 170.

Credits: 4 Lecture: 3 Lab: 3

LMT 118 - KINESIOLOGY FOR MASSAGE THERAPY II

Continues study of the muscles that will include attachments, actions, nerves, joints and the boney landmarks. Second course in a three-part series of kinesiology for massage therapist. Prerequisite: LMT 113.

Credits: 4 Lecture: 3 Lab: 3

LMT 124 - KINESIOLOGY FOR MASSAGE THERAPY III

Continues a study of muscles that will include attachments, actions, nerves, joints and the boney landmarks; emphasizes palpation skills. Third course in a three-part series of kinesiology for massage therapists. Prerequisite: LMT 118.

Credits: 4 Lecture: 3 Lab: 3

LMT 128 - KINESIOLOGY IV

This is the last of a four part series of kinesiology for massage therapists. A study of the muscles that will include attachments, actions, nerves and the boney landmarks. Palpation skills will be emphasized. Prerequisite: I MT 124

Credits: 3 Lecture: 2 Lab: 3

LMT 130 - MASSAGE FUNDAMENTALS

Introduction to the history of massage, self-care, proper body mechanics, basic medical terminology, universal sanitation precautions, draping, communication and the effects of Swedish massage strokes. Prerequisites: minimum placement scores resulting in WR 121 placement or completion of WR 065 or higher, placement into MTH 020 or completion of MTH 010 or higher and completion of one of BI 121 or BI 122 or BI 231. Corequisites: LMT 113, LMT 155, LMT 170.

Credits: 2 Lecture: 2

LMT 135 - MANAGING A MASSAGE PRACTICE

Managing a massage practice will explore business structures, legal and tax documentation requirements for a massage therapy practice. Students will formulate a marketing plan including advertising, market analysis and professional goals.

Credits: 3 Lecture: 3

LMT 140 - PATHOLOGY

The effects of massage therapy on the body systems will be discussed including the indications and contraindications to massage. The basic mechanisms of the disease process and medical terminology will be reviewed. Prerequisites: BI 121 and 122 or BI 231 and 232.

Credits: 4 Lecture: 4

LMT 145 - MASSAGE I

The theory of Swedish massage, physiological effects and the practical application will be incorporated into the development of a massage therapy routine. Basic Subjective Objective Action Plan (SOAP) charting skills are introduced. Prerequisites: LMT 130, LMT 170.

Credits: 4 Lecture: 2.5 Lab: 4.5

LMT 150 - MASSAGE II

The theory and practice of various modalities including deep tissue, trigger point therapy, muscle energy technique and stretching are introduced. Incorporates client assessment and treatment planning for a massage session is incorporated. Prerequisites: LMT 118, LMT 145.

Credits: 4 Lecture: 2.5 Lab: 4.5

LMT 155 - EASTERN THEORY & PRACTICE

This course is philosophically neutral and will focus on Chinese Medicine as the primary model which includes an introduction to eastern philosophy and its complementary healing techniques. Prerequisites: minimum placement scores resulting in WR 121 placement or completion of WR 065 or higher; placement into MTH 020 or completion of MTH 010 or higher; and completion of one of BI 121 or BI 122 or BI 231. Corequisites: LMT 113, LMT 130, LMT 170.

Credits: 2 Other: 4

LMT 160 - HYDROTHERAPY

The principles and techniques of water as it relates to a massage therapy session in its three forms; solid, liquid and vapor. Prerequisites: LMT 145.

Credits: 1 Other: 2

LMT 170 - PROFESSIONAL ETHICS AND RULES

The professional and ethical boundaries that govern the practice of massage therapy will be explored. The Oregon Administrative Rules and Statutes that apply to licensed massage therapists will be examined and discussed. Prerequisites: minimum placement scores resulting in WR 121 placement or completion of WR 065 or higher, placement into MTH 020 or completion of MTH 010 or higher and completion of one of BI 121 or BI 122 or BI 231. Corequisites: LMT 113, LMT 130, LMT 155.

Credits: 2 Lecture: 2

LMT 175 - SWEDISH RELAXATION CLINIC

Swedish Relaxation Clinic will perform basic Swedish relaxation massage therapy techniques on the general public while demonstrating professionalism, client communication and client consent during supervised public clinics. Prerequisites: LMT 145.

Credits: 2 Lecture: 1 Lab: 3

LMT 180 - THERAPEUTIC CLINIC

Therapeutic Clinic offers relaxation and treatment massage therapy techniques to the general public. Subjective Objective Action Plan (SOAP) charting, professionalism, client communication and client consent will be performed during supervised public clinics. Prerequisite: LMT 150.

Credits: 3 Lecture: 1 Lab: 6

LMT 188 - SPECIAL STUDIES: LICENSED MASSAGE THERAPY

Specific modules that relate to first year courses.

Credits: 1 to 4

LMT 199 - SELECTED TOPICS: LICENSED MASSAGE THERAPY

Selected topics related to massage therapy.

Credits: 4

LMT 205 - MOVEMENT FOR MASSAGE

The student will explore their body mechanics and body awareness through the practice of Qigong to meet the physical demands of a massage therapy career.

Credits: 1 Other: 2

LMT 206 - THE SPIRIT OF MASSAGE

The Spirit of Massage will explore a holistic view of massage and facilitate a self-awareness of one's personal connection to the massage therapy session and client goals.

Credits: 1 Lecture: 1

LMT 210 - COMMUNITY OUTREACH

Massage therapy research and case studies topics will be explored using methods of assessment of the benefits of massage. Internships and externships may be included. Recommended preparation: Massage Therapy certificate, LMT, or other related health care professional.

Credits: 2 Lecture: 1 Other: 3

LMT 216 - AROMATHERAPY I

An introduction to the properties and benefits of essential oils and their effects on the body when used in clinical and holistic settings.

Credits: 1 Other: 2

LMT 217 - AROMATHERAPY II

Advanced exploration of the essential oils examined in Aromatherapy I and utilization in a massage therapy session. Prerequisite: LMT 216.

Credits: 1 Other: 2

LMT 226 - THAI MASSAGE I

Traditional fundamentals of Thai bodywork techniques will be explored. A basic Thai floor massage routine will be practiced using traditional Thai equipment. Students should have the ability to kneel and move around on their feet and knees. Prerequisites: LMT 130, LMT 155.

Credits: 2 Lecture: 1 Other: 2

LMT 227 - THAI MASSAGE II

Students will explore the deeper roots of Thai bodywork and the "Sen." Advanced techniques and stretches will be practiced in a Thai bodywork routine using traditional Thai equipment. Students should have the ability to kneel and move around on their feet and knees. Prerequisite: LMT 226.

Credits: 2 Lecture: 1 Other: 2

LMT 228 - THAI FOOT REFLEXOLOGY

Students will practice Thai reflexology routines, pressure points and techniques that combine to make a unique foot massage like those enjoyed throughout Thailand.

Credits: 2 Lecture: 1 Other: 2

LMT 229 - JAPANESE FACIAL MASSAGE

Japanese Facial Massage combines massage and acupressure to reduce muscular tensions, increase blood and energy flow, while restoring elasticity to the skin.

Credits: 1 Other: 2

LMT 231 - THAI MASSAGE CLINIC

Students will practice traditional Thai bodywork techniques and sequences on the general public during the supervised clinic. Prerequsite: LMT 226.

Credits: 2 Lecture: 1 Lab: 3

LMT 240 - NEUROMUSCULAR TREATMENTS-TRUNK

This is advanced myofascial coursework that focuses on the treatment of specific injuries and conditions using massage therapy neuromuscular treatment protocols.

Credits: 5 Lecture: 4 Lab: 3

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LMT 241 - NEUROMUSCULAR TREATMENT-EXTREMETIES

This is advanced myofascial coursework that focuses on the treatment of specific injuries and conditions using massage therapy neuromuscular treatment protocols. Prerequisite: LMT 150.

Credits: 2 Lecture: 1 Other: 2

LMT 245 - EFFECTIVE OFFICE DECISIONS

This course will explore insurance billing, retail selling, target marketing, bookkeeping, credentialing and other issues a massage practice may encounter. Recommended preparation: Massage Therapy certificate, LMT, or other related health care professional.

Credits: 2 Lecture: 2

LMT 250 - CRANIAL SACRAL LEVEL I

This course will offer a cranio sacral approach to massage therapy with an emphasis on relevant anatomy. Recommended preparation: Massage Therapy certificate, LMT, or other related health care professional.

Credits: 5 Lecture: 4 Lab: 3

LMT 255 - ZEN SHIATSU

Zen Shiatsu history, basic theory and techniques used in this massage modality will be introduced. This class will offer hands-on experience while working with a clothed client in the style of Shizuto Masunaga. Recommended preparation: LMT 155, LMT 130.

Credits: 3 Lab: 6

LMT 256 - ADVANCED ZEN SHIATSU

The incorporation of advanced Shiatsu theory, assessment strategies and techniques using meridian therapy and psubo manipulation. Hands-on experience in the style of Shizuto Masunaga will be included. Prerequisite: LMT 255.

Credits: 3 Other: 6

LMT 257 - CHINESE MEDICINE THEORY

Chinese Medicine Theory will provide a deeper understanding of Eastern/Asian foundational elements and the application of the elements as it relates to therapeutic massage therapy and bodywork. Prerequisite: LMT 155.

Credits: 3 Lecture: 2 Other: 2

LMT 258 - SHIATSU CLINIC

Students will practice Shiatsu bodywork techniques on the general public during the supervised clinic. Prerequisite: LMT 255.

Credits: 2 Lecture: 1 Lab: 3

LMT 260 - SPA TREATMENTS

Spa treatment commonly used in spa facilities will be explored. A variety of spa treatments will be practiced in class. Contraindications, hygiene, sanitation and spa etiquette will be examined. Recommended preparation: Massage Therapy certificate, LMT, or other related health care professional.

Credits: 5 Lecture: 4 Lab: 3

LMT 261 - ANCIENT HAWAIIAN MASSAGE

Introduction to the history and the traditions of ancient Hawaiian precepts on bodywork and healing.

Credits: 1 Other: 2

LMT 265 - SPORTS MASSAGE

The principles of Deep Tissue, Myofasical Release, and Muscle Energy Techniques will be applied to target sports performance and exercise recovery and will be integrated in the rehabilitation of athletic related injuries. Prerequisite: LMT 150.

Credits: 3 Other: 6

LMT 266 - SPORTS MASSAGE CLINIC

Students will practice sports massage techniques targeting athletic performance, exercise recovery and soft tissue rehabilitation of athletic related injuries. Prerequisite: LMT 265.

Credits: 2 Lecture: 1 Lab: 3

LMT 270 - CLINICAL ASSESSMENTS

This is a nontreatment course that will evaluate and assess ROM, posture, gait and soft tissue injury when determining massage therapy treatment options. Students taking Advanced Treatment courses are advised to enroll. Recommended preparation: Massage Therapy certificate, LMT, or other related health care professional.

Credits: 4 Lecture: 3 Lab: 3

LMT 271 - PREGNANCY MASSAGE

Advanced massage training when working with pregnant clients that will include precautions, draping, positioning and how massage can support women in labor. Prerequisite: LMT 145.

Credits: 1 Other: 2

LMT 288 - SPECIAL STUDIES: LICENSED MASSAGE THERAPY

Specific coursework related to massage therapy. Recommended preparation: Massage Therapy certificate, LMT, or other related health care professional.

Credits: 4

LMT 295 - INTEGRATED THERAPIES

This course will explore the history and cultural aspects of Ayurveda principles and bodywork and how it may be integrated into a traditional massage therapy setting. Recommended preparation: Massage Therapy certificate, LMT, or other related health care professional.

Credits: 3 Lecture: 2 Lab: 3

LMT 299 - SELECTED TOPICS: LICENSED MASSAGE THERAPY

Selected topics related to massage therapy. Recommended preparation: Massage Therapy certificate, LMT, or other related health care professional. Credits: 7

MATHEMATICS

MTH 010 - DEVELOPMENTAL MATHEMATICS

Introduces mathematics and its application, explains language and symbols used in math, develops concepts in whole number, fraction and decimal operations and applications, and develops analytical thinking while emphasizing study and learning skills necessary for success in math courses and overcoming anxiety toward math.

Credits: 4 Lecture: 4

MTH 020 - PRE-ALGEBRA

Emphasizes applications of basic arithmetic skills. Equips students to handle everyday arithmetic problems and lays a foundation for algebra. Topics include ratio, proportion, percent, measurement, perimeter, area, volume and integers. Recommended preparation: MTH 010 or equivalent.

Credits: 4 Lecture: 4

MTH 029 - FRACTION REVIEW WORKSHOP

Provides a concentrated experience for students needing a review of fractions and associated number theory skills. This course is not a replacement for students who place into or need to take MTH 010. May be taken concurrently with another math class.

Credits: 2 Lecture: 2

MTH 031 - HEALTH CARE MATH

Designed for students majoring in Addiction Studies, Massage Therapy, Health Information Technology, among others. Includes topics from prealgebra and descriptive statistics. MTH 031 is not designed to serve as a prerequisite to MTH 060. Recommended preparation: MTH 010.

Credits: 3 Lecture: 3

MTH 058 - MATH LITERACY I

Presents mathematics in context. Introduces pattern recognition, estimation and number sense, working with units, linear equations and inequalities. Explores how to clearly communicate arguments supported by quantitative evidence using words, tables, graphs and mathematical equations. TI-83 or TI-84 calculator required. Recommended preparation: MTH 010 or placement score into MTH 020 or higher.

Credits: 4 Lecture: 4

MTH 060 - ALGEBRA I

Introduction to algebra, integers, rational and real numbers, algebraic expressions, linear equations and inequalities in one and two variables, and systems of equations and inequalities. Recommended preparation: MTH 020 or equivalent.

Credits: 4 Lecture: 4

MTH 065 - ALGEBRA II

Continues development of manipulative algebra skills from MTH 060. Includes algebraic expressions and polynomials, factoring algebraic expressions, rational expressions, roots and radicals and quadratic equations. Recommended preparation: MTH 060.

Credits: 4 Lecture: 4

MTH 085 - TECHNICAL MATHEMATICS I

First in a two-term sequence designed for majors in forest technology, fire science, CAD and GIS, among others. Includes introduction to algebra and geometry with a focus on units of measurement, formula manipulation, solving linear and literal equations, exponents, three-dimensional geometry and preparation for trigonometry. Real-world applications are emphasized. Recommended preparation: MTH 020 and/or MTH 060 equivalent.

Credits: 4 Lecture: 4

MTH 086 - TECHNICAL MATHEMATICS II

Second in a two-term sequence designed for majors in forest technology, fire science, CADD and GIS, among others. Includes a review of geometry and a thorough discussion of trigonometry with an introduction to vectors and their applications. The second half of the term includes an introduction to functions and their applications including graphing equations, developing equations from graphs, analysis of linear and non-linear functions and functions as models. Students will work in teams to develop and analyze a complex, real-world application and submit a technical report detailing the results. A graphing calculator is required. TI-83 or TI-84 recommended. Recommended preparation: MTH 085 or equivalent.

Credits: 4 Lecture: 4

MTH 095 - INTERMEDIATE ALGEBRA

Continues the algebra foundation necessary to study college-level mathematics and statistics. Includes systems of equations and inequalities, linear and quadratic regressions, functions and function notation, equation solving through manual and graphical means, inequalities and complex numbers. Recommended preparation: MTH 065 or equivalent. Graphing calculator required; a large percentage of the course will be learned using it. TI-83 or TI-84 recommended.

Credits: 4 Lecture: 4

MTH 098 - MATH LITERACY II

Introduces normal distribution and regression/curve fitting. Covers modeling, graphing and solving of linear and quadratic equations. Introduces problem solving with linear systems of equations. Explores how to clearly communicate sophisticated arguments supported by quantitative evidence using words, tables, graphs and mathematical equations as appropriate. TI-83 or TI-84 calculator required. Prerequisite: MTH 058. There is no placement directly into MTH 098.

Credits: 4 Lecture: 4

MTH 099 - SELECTED TOPICS: MATHEMATICS

Offers selected topics in mathematics for courses generally available only once. Topics and credits to be arranged.

Credits: 1 to 4

MTH 105 - MATH IN SOCIETY

Math in Society is a rigorous mathematics course designed for students in Liberal Arts and Humanities majors. The course provides a solid foundation in quantitative reasoning, symbolic reasoning and problem solving techniques needed to be a productive, contributing citizen in the 21st century. Prerequisite: MTH 095 or MTH 098, MTH 095 or MTH 098 equivalency met, appropriate placement exam score, or instructor approval.

Credits: 4 Lecture: 4

MTH 111 - COLLEGE ALGEBRA

Introduces graphs and functions (linear, quadratic, polynomial, rational, exponential and logarithmic) using a graphing calculator. First term of a precalculus sequence for science students. Recommended preparation: MTH 095 or equivalent. Graphing calculator required. TI-83 or TI-84 recommended.

Credits: 4 Lecture: 4

MTH 112 - TRIGONOMETRY

Examines the applied, real-world and theoretical mathematical implications of the trigonometric functions. The symbolic, numerical and graphical representations of these functions and their applications form the core of the course. Emphasizes solving problems symbolically, numerically and graphically and understanding the connections among these methods in interpreting and analyzing results. Recommended preparation: MTH 111 or equivalent. Graphing calculator required. TI-83 or TI-84 recommended.

Credits: 4 Lecture: 4

MTH 113 - TOPICS IN PRECALCULUS

Examines topics chosen from the applied, real-world and theoretical mathematical implications of analytic geometry, nonrectangular coordinate systems, vectors, matrices and sequences. The symbolic, numerical and graphical representations of these functions and their applications form the core of the course. Emphasizes solving problems symbolically, numerically and graphically and understanding the connections among these methods in interpreting and analyzing results. The primary focus is preparation for Calculus. Recommended preparation: MTH 112 or equivalent. Graphing calculator required. TI-83 or TI-84 recommended.

Credits: 4 Lecture: 4

MTH 188 - SPECIAL STUDIES: MATHEMATICS

Explores topics of current interest in the discipline.

Credits: 1 to 3

MTH 198 - PRACTICUM IN MATHEMATICS

Allows students to gain exposure to an elementary classroom setting, gain experience in teaching/tutoring math to elementary-school-age children and gain an understanding of learning theory and processes as they apply to mathematics education.

Credits: 2 Lecture: 1 Other: 3

MTH 199 - SELECTED TOPICS: MATHEMATICS

Offers selected topics in mathematics for courses generally available only once. Topics and credits to be arranged.

Credits: 1 to 4

MTH 211 - FUNDAMENTALS OF ELEMENTARY MATHEMATICS I

Introduces problem-solving, sets, natural and whole numbers, number theory and fractions. First term of a sequence for students planning to become elementary teachers but open to any students wanting to study the foundations of mathematics. Recommended preparation: MTH 095 or equivalent.

Credits: 4 Lecture: 4

MTH 212 - FUNDAMENTALS OF ELEMENTARY MATHEMATICS II

Covers decimals, percents, ratio and proportion, integers, rational and real numbers, and statistics and probability. Second term of a sequence for students planning to become elementary teachers but open to any student wanting to study the foundations of mathematics. Recommended preparation: MTH 211 or equivalent.

Credits: 4 Lecture: 4

MTH 213 - FUNDAMENTALS OF ELEMENTARY MATHEMATICS III

Covers geometric shapes, measurement, congruence and similarity, and coordinate and transformational geometry. Third term of a sequence for students planning to become elementary teachers but open to any student wanting to study the foundations of mathematics. Recommended preparation: MTH 211.

Credits: 4 Lecture: 4

MTH 231 - DISCRETE MATHEMATICS

Topics in the course will examine in detail the applied, real-world and theoretical mathematical implications of the mathematical concepts elementary logic and set theory, functions, direct proof techniques, contradiction and contraposition, mathematical induction and recursion, elementary combinatorics, basic graph theory, minimal spanning trees. The symbolic, numerical and graphical representations of the mathematical concepts will be expanded and explored. Emphasis will be on solving problems symbolically, numerically and graphically and understanding the connections among these methods in interpreting and analyzing results. Recommended preparation: MTH 112.

Credits: 4 Lecture: 4

MTH 241 - CALCULUS FOR MANAGEMENT/SOCIAL SCIENCE

Introduces basic concepts of differential and integral calculus for students majoring in management and social science. Includes elementary differential and integral calculus of polynomial, logarithmic and exponential functions, and their applications to business, management and social sciences. Recommended preparation: MTH 111. Graphing calculator required. TI-83 or TI-84 recommended.

Credits: 4 Lecture: 4

MTH 243 - INTRODUCTION TO PROBABILITY AND STATISTICS I

Introduces probability and descriptive statistics. Includes critical readings of graphs and data, basic probability theory, random variables and binomial and normal probability distributions. Culminates with the Central Limit Theorem. Recommended preparation: MTH 111 (for those needing MTH 241 or MTH 251), MTH 105, or instructor approval. Graphing calculator required. TI -83 or TI -84 recommended.

Credits: 4 Lecture: 4

MTH 244 - INTRODUCTION TO PROBABILITY AND STATISTICS 2

Introduces methods of inferential statistical analysis. Includes sampling techniques, confidence intervals, hypothesis testing, tests of association, linear regression and categorical analysis. Basic computer skills (especially spreadsheet knowledge) are desirable. Graphing calculator required. TI-83 or TI-84 recommended. Prerequisites: MTH 243 or MTH 243 equivalency or instructor approval.

Credits: 4 Lecture: 4

MTH 245 - MATHEMATICS FOR MANAGEMENT, LIFE AND SOCIAL SCIENCES

This is a Finite Math course that covers techniques of counting, probability and elements of statistics including binomial and normal distributions, introductory matrix algebra and elements of linear programming. Recommended preparation: MTH 111.

Credits: 4 Lecture: 4

MTH 251 - CALCULUS I

Introduces concepts of differential calculus for science, mathematics and engineering students. Includes limits and continuity, the derivative, rates of change, derivatives of polynomial, rational and trigonometric functions, applications including maximum-minimum problems, antiderivatives and definite integrals. Topic presentation includes group discovery activities. Real applications, technical writing, group activities and group projects are emphasized. Graphing calculator required. TI-83 or TI-84 recommended. Computer literacy recommended. Recommended preparation: MTH 112, MTH 113 or equivalent or instructor approval.

Credits: 4 Lecture: 3 Lab: 3

MTH 252 - CALCULUS II

Introduces concepts of integral calculus to science, mathematics and engineering students. Includes antidifferentiation, fundamental theorem, integration techniques, numerical methods, improper integrals and mathematical modeling with applications to geometry, physics, economics and population dynamics. Topic presentation includes group discovery activities. Real applications, technical writing, group activities and group projects are emphasized. Graphing calculator required. TI-83 or TI-84 recommended. Computer literacy recommended. Recommended preparation: MTH 251.

Credits: 4 Lecture: 3 Lab: 3

MTH 253 - CALCULUS III

Introduces further calculus concepts to science, mathematics and engineering students. Includes infinite sequences, infinite series, Taylor series, parametric equations and functions in polar coordinates and an introduction to linear algebra including systems of linear equations, vectors, matrices, linear independence/dependence, matrix inverses, determinants, eigenvalues, eigenvectors. Real applications, technical writing, group activities and group projects are emphasized. Graphing calculator required. TI-83 or TI-84 recommended. Computer literacy recommended. Recommended preparation: MTH 252.

Credits: 4 Lecture: 3 Lab: 3

MTH 254 - VECTOR CALCULUS I

Introduces concepts of vector calculus to science and engineering students. Includes vectors and vector functions, parametric curves, functions of several variables, partial derivatives, gradients, directional derivatives and optimization problems. Graphing calculator required. TI-83 or TI-84 recommended. Computer skills required. Recommended preparation: MTH 253.

Credits: 4 Lecture: 3 Lab: 3

MTH 255 - VECTOR CALCULUS II

Continuation of the study of vector analysis for science and engineering students. Includes double and triple integrals with applications to area, volume and center of mass, introduction to vector analysis including divergence, curl, line integrals and work, surface integrals, conservative fields and the theorems of Green and Stokes. Graphing calculator required. TI-83 or TI-84 recommended. Basic computer skills required. Recommended preparation: MTH 254.

Credits: 4 Lecture: 3 Lab: 3

MTH 256 - APPLIED DIFFERENTIAL EQUATIONS

Introduction to the application of differential equations for science and engineering students. Includes first- and second-order linear and nonlinear equations, systems of linear first-order differential equations and applications appropriate for science and engineering; numerical, graphical, series and analytical solutions are covered. Computer skills are recommended. Graphing calculator required. TI-83 or TI-84 recommended. Recommended preparation: MTH 253.

Credits: 4 Lecture: 3 Lab: 3

MEDICAL ASSISTANT

MA 110 - INTRODUCTION TO CLINICAL MEDICAL ASSISTING

First of two classes that introduce key cognitive, psychomotor and affective competencies related to the clinical responsibilities of the medical assistant as identified by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and the Medical Assisting Educational Review Board (MAERB). Covered concepts include application of standard precautions and infection control, patient preparation and education, performance of vital signs, delivery of oral and parenteral medications, vision screening and application of skills to begin assisting with medical exams and procedures. Math component includes basic skills in preparation for understanding and calculating medication dosage. Body structure, function, pathology and medical terminology are reviewed in relationship to their impact on various body systems. Prerequisites: AH 111, AH 112, AH 113, Choose either BI 121 and BI 122 or BI 231, BI 232 and BI 233, CIS 120 or Computer Competency Test, MTH 095 or higher, SP 218, WR 121. Corequisites: MA 111.

Credits: 7 Lecture: 5 Lab: 6

MA 111 - INTRODUCTION TO PROFESSIONAL MEDICAL ASSISTING

First of two classes that introduce key competencies related to office practices and administrative responsibilities of the medical assistant as defined by the CAAHEP and the MAERB. Includes concepts related to professionalism, diversity, confidentiality, written and oral communication, application of telephone techniques, legal concepts, introductory

Course Descriptions

scheduling and triage skills, and office safety. See MA 110 for Medical Assisting program prerequisites. Corequisites: MA 110.

Credits: 5 Lecture: 5

MA 120 - CLINCAL MEDICAL ASSISTING II

Second of two classes covering key cognitive, psychomotor and affective competencies related to clinical responsibilities of the medical assistant as identified by the CAAHEP and the MAERB. Students will expand skills required to assist with diagnostic testing, outpatient procedures, and office-based lab testing. Students will demonstrate greater mastery of concepts such as standard precautions, infection control, medical and surgical asepsis, patient preparation and delivery of oral and parenteral medications. Math components include basic skill review in preparation for understanding, calculating and delivering oral and parenteral medications. Body structure, function, pathology and medical terminology are reviewed in relationship to their impact on various body systems. Prerequisites: MA 110, MA 111. Corequisites: MA 121.

Credits: 7 Lecture: 5 Lab: 6

MA 121 - ADMINISTRATIVE MEDICAL ASSISTING

Second of two courses that cover key competencies related to office practices and administrative responsibilities of the medical assistant as identified by the CAAHEP and the MAERB. Includes concepts related to coding, billing, accounting, insurance, electronic medical records, practice management systems, office management and administrative communication. Prerequisites: MA 110, MA 111. Corequisites: MA 120.

Credits: 5 Lecture: 2 Other: 6

MA 137 - APPLICATION OF PROFESSIONAL MEDICAL ASSISTING

Final medical assisting lecture and lab class focusing on skills related to specialty practice, office management, national exam passage and job acquisition. Topics include assisting with specialty exams, pandemic response, management tools and specialty-specific diagnostic procedures and treatments. Students will prepare resumes and practice job interview skills. National exam material is reviewed. Prerequisites: MA 110, MA 111, MA 120, MA 121, MA 140, MA 150. Corequisites: MA 147.

Credits: 4 Lecture: 3 Lab: 3

MA 140 - NUTRITION, CPR AND FIRST AID FOR MEDICAL ASSISTANTS

This class is designed to cover key competencies for medical assistants related to nutritional interventions and office-based emergencies as identified by the CAAHEP and the MAERB. Students have the opportunity to obtain provider level CPR and first aid cards that meet Medical Assistant program requirements during the course of this class. Prerequisite with concurrency: MA 110.

Credits: 3 Lecture: 1 Other: 4

MA 147 - MEDICAL ASSISTANT PRACTICUM I

The clinical practicum is a required, supervised, unpaid learning experience, which takes place on site at a prearranged clinical facility. It provides students with the opportunity to perform clearly identified competencies within the clinical setting. Students must have a total of five clinical credits. A minimum of 160 hours in the clinical setting is required. Students must be available during all potential weekday hours indicated in the class schedule to attend practicum as placements become available. Students must be able to provide transportation to sites in Central Oregon. Students must have updated adult/infant/child CPR and First Aid cards as well as updated background checks and immunization required by practicum sites. Instructor approval required. See MA 137 for prerequisites. Corequisites: MA 137.

Credits: 5 Other: 16

MA 150 - PHARMACOLOGY FOR MEDICAL ASSISTANTS

This course introduces medical assistant students to the general principles of pharmacology as required by the standards adopted by the American Association of Medical Assistants (AAMA) and the CAAHEP. Drugs are discussed in the context of drug classes, mechanics of action, disease types and body systems. The goal is to provide medical assistants with sufficient background information so that they will be able

to play a key role avoiding errors, as well as a basic understanding of pharmacologic categories and factors affecting drug kinetics. Prerequisite with concurrency: MA 110.

Credits: 3 Lecture: 3

MA 199 - SELECTED TOPICS: MEDICAL ASSISTANT

This course is in development.

Credits: 1 to 4

MILITARY SCIENCE

MS 111 - LEADERSHIP AND PERSONAL DEVELOPMENT

This course introduces students to the personal challenges and competencies that are critical for effective leadership. Students will learn the basic skills related to leadership and the Army profession. The focus is on developing basic knowledge and comprehension of Army leadership dimensions while gaining a comprehensive understanding of the ROTC program, its purpose in the Army and its advantages for the student. This course is open to any student in any course of study.

Credits: 1 Lecture: 1

MS 112 - INTRODUCTION TO TACTICAL LEADERSHIP

This course introduces students to the personal challenges and competencies that are critical for effective leadership. Topics include developing life skills such as goal setting, time management, physical fitness and stress management relative to leadership, officership and the Army profession. Students will further explore Army leadership dimensions in depth, as they relate to tactical leadership. This class is open to any student in any course of study. Recommended preparation: MS 111

Credits: 1 Lecture: 1

MS 113 - ORIENTEERING AND LAND NAVIGATION

This course introduces students to basic orienteering and map reading. Students will gain confidence in their ability to read different types of maps, plan routes and find their location on the ground using a military map and compass. Students will learn to identify terrain features on a map and on the ground. Students will use these skills to move from one point to another by orienteering and terrain association. This class is open to any student in any course of study. Recommended preparation: MS 112.

Credits: 1 Lecture: 1

MS 180 - ARMY PHYSICAL FITNESS

The course familiarizes the students with the Army Physical Fitness Program and FM 21-20 through an individually-regimented physical fitness training program. Students will receive guidance on proper nutrition and fitness to excel in a physically demanding environment as well as being given the opportunity to plan and implement their own total fitness program. Class is open to any student in any course of study.

Credits: 1 Lab: 3

MS 211 - FOUNDATIONS IN LEADERSHIP

This course explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and effective communication techniques. Aspects of personal motivation and team building are practiced during the conduct of leadership coursework. The focus continues to build on developing knowledge of the skills that Army leaders need to excel, as well as broadening knowledge of operations of the current military. No military obligation is incurred through participation in the course. This class is open to any student in any course of study. Recommended preparation: MS 113.

Credits: 2 Other: 4

MS 212 - EFFECTIVE TEAM BUILDING

This course examines the challenges of leading tactical teams in the complex contemporary operating environment (COE). This course explores dimensions of terrain analysis and land navigation, small unit tactics and the fundamentals of patrolling. It continues to explore the dimension of creative and innovative tactical leadership strategies and

styles by examining team dynamics and effective time management techniques. Aspects of personal motivation and team building are practiced during the conduct of Leadership Labs. No military obligation is incurred through participation in the course. This course is open to any student in any course of study. Recommended preparation: MS 211.

Credits: 2 Other: 4

MS 213 - FUNDAMENTALS OF MILITARY OPERATIONS

This course introduces the fundamentals of military operations by exploring the military approach to conducting various operations, and the planning and procedures required to be successful in these operations. It continues to explore the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and effective time-management techniques. An introduction to squad-level tactics will focus on applying military decision-making processes and delivering military orders. No military obligation is incurred through participation in the course. Leadership coursework will be used to reinforce the tactical and operational concepts covered in the course. Recommended preparation: MS 212.

Credits: 2 Other: 4

MS 299 - SELECTED TOPICS: MILITARY SCIENCE

This course is in development.

Credits: 4 Lecture: 4 Lab: 12 Other: 12

MUSIC

MUS 101 - MUSIC FUNDAMENTALS

Presents the fundamentals of music making, including notation of pitch, rhythm, music terminology, scales, key signatures, intervals and chord spelling. Requires no previous musical experience. This course is an ideal preparation for students who intend to enroll in MUS 111. Students interested in learning about music history, styles and composers (Baroque, Classical, Romantic, etc.) should consider MUS 201, MUS 202 or MUS 203.

Credits: 3 Lecture: 3

MUS 111 - MUSIC THEORY IA

Harmony of the common-practice period with attention to part writing and analysis. An entrance placement exam will be given during the first class session. This sequence of courses should be taken by all students who intend to major or minor in music. Recommended preparation: MUS 101 or equivalent. Recommended to be taken with: MUS 114.

Credits: 3 Lecture: 3

MUS 112 - MUSIC THEORY IB

Harmony of the common-practice period with attention to part writing and analysis. Recommended preparation: MUS 111. Recommended to be taken with: MUS 115.

Credits: 3 Lecture: 3

MUS 113 - MUSIC THEORY IC

Harmony of the common-practice period with attention to part writing and analysis. Recommended preparation: MUS 112. Recommended to be taken with: MUS 116.

Credits: 3 Lecture: 3

MUS 114 - MUSICIANSHIP IA

Builds aural acuity through drill and practice in ear training, sight singing and dictation. Computer based exercises and tests are an important part of the work. Recommended to be taken with: MUS 111.

Credits: 2 Lecture: 2

MUS 115 - MUSICIANSHIP IB

Builds aural acuity through drill and practice in ear training, sight singing and dictation. Computer based exercises and tests are an important part of the work. Recommended to be taken with: MUS 112. Recommended preparation: MUS 114.

Credits: 2 Lecture: 2

MUS 116 - MUSICIANSHIP IC

Builds aural acuity through drill and practice in ear training, sight singing and dictation. Computer based exercises and tests are an important part of the work. Recommended to be taken with: MUS 113. Recommended preparation: MUS 115.

Credits: 2 Lecture: 2

MUS 123 - OPERA PERFORMANCE

Study, rehearsal and performance of operas for vocalists, instrumentalists and production technicians. An audition is required before enrollment. May be repeated, no limit. Not offered every year.

Credits: 1 Other: 3

MUS 131 - PIANO CLASS I

Teaches fundamentals of piano performance in a class format.

Credits: 2 Lecture: 2

MUS 132 - PIANO CLASS II

Teaches fundamental piano skills in a class format.

Credits: 2 Lecture: 2

MUS 133 - PIANO CLASS III

Teaches fundamental piano skills in a class format.

Credits: 2 Lecture: 2

MUS 134 - VOICE CLASS I

Teaches fundamentals of vocal performance in a class format.

Credits: 2 Lecture: 2

MUS 135 - VOICE CLASS II

Teaches fundamental vocal skills in a class format.

Credits: 2 Lecture: 2

MUS 136 - VOICE CLASS III

Teaches fundamental vocal skills in a class format.

Credits: 2 Lecture: 2

MUS 137 - CLASS GUITAR I

Teaches fundamentals of guitar performance in a class format.

Credits: 2 Lecture: 2

MUS 138 - CLASS GUITAR II

Teaches fundamental guitar skills in a class format.

Credits: 2 Lecture: 2

MUS 139 - CLASS GUITAR III

Teaches fundamental guitar skills in a class format.

Credits: 2 Lecture: 2

MUS 161 - JAZZ IMPROVISATION

Introduces students to jazz improvisation in a laboratory (performance) setting. No previous experience or knowledge about jazz or improvisation necessary. Students should have some previously developed proficiency on an instrument or voice. Not offered every year. May be repeated, no limit.

Credits: 2 Lecture: 2

MUS 188 - SPECIAL STUDIES: MUSIC

Credits: 1 to 3

MUS 194 - BIG BAND JAZZ

Study and performance of music for large jazz band. One major concert is presented each term. May be repeated, no limit. Contact ensemble conductor for information about required audition.

Credits: 1 Other: 3

MUS 195 - CONCERT BAND

Study and performance of music for the concert band. One major concert is presented each term. May be repeated, no limit. Contact ensemble conductor for information about required audition.

Credits: 1 Other: 3

Course Descriptions

MUS 196 - SYMPHONY

The study and performance of music for symphony orchestra. One major concert is presented each term. May be repeated, no limit. Contact ensemble conductor for information about required audition.

Credits: 1 Other: 3

MUS 197 - CASCADE CHORALE

Study, rehearsal and performance of choral literature. Meets Tuesday evenings and welcomes both college students and community members. Performs a major concert each term. May be repeated, no limit. Please note: purchase of concert dress outfit required. Contact choral program director for information about required audition.

Credits: 1 Other: 3

MUS 197A - COLLEGE CHOIR

Focuses on preparation and performance of choral literature from a wide variety of styles and periods. Performs one major concert each term and occasionally other concerts off campus. May be repeated, no limit.

Credits: 2 Lecture: 1 Lab: 3

MUS 199 - SELECTED TOPICS: MUSIC

This course is in development.

Credits: 1 to 3

MUS 201 - UNDERSTANDING MUSIC

Introduces the history of Western fine-art music and its literature. Encompasses the study of musical vocabulary, style, form, principal composers and the historical development of music in various style periods. The content of each course varies somewhat from term to term, but typically MUS 201 covers Medieval, Renaissance, Baroque and Classical era music while MUS 202 discusses music and composers from the Romantic, 20th century and Contemporary periods. MUS 203 typically diverges from Western fine-art music and focuses on various musical styles from around the world. The classes need not be taken in sequence and do not require any previous musical experience. Students interested in learning how to read musical notation (rhythm, notes) should enroll in MUS 101.

Credits: 3 Lecture: 3

MUS 202 - UNDERSTANDING MUSIC

Introduces the history of Western fine-art music and its literature. Encompasses the study of musical vocabulary, style, form, principal composers and the historical development of music in various style periods. The content of each course varies somewhat from term to term, but typically MUS 201 covers Medieval, Renaissance, Baroque and Classical era music while MUS 202 discusses music and composers from the Romantic, 20th century and Contemporary periods. MUS 203 typically diverges from Western fine-art music and focuses on various musical styles from around the world. The classes need not be taken in sequence and do not require any previous musical experience. Students interested in learning how to read musical notation (rhythm, notes) should enroll in MUS 101.

Credits: 3 Lecture: 3

MUS 203 - UNDERSTANDING MUSIC

Introduces the history of Western fine-art music and its literature. Encompasses the study of musical vocabulary, style, form, principal composers and the historical development of music in various style periods. The content of each course varies somewhat from term to term, but typically MUS 201 covers Medieval, Renaissance, Baroque and Classical era music while MUS 202 discusses music and composers from the Romantic, 20th century and Contemporary periods. MUS 203 typically diverges from Western fine-art music and focuses on various musical styles from around the world. The classes need not be taken in sequence and do not require any previous musical experience. Students interested in learning how to read musical notation (rhythm, notes) should enroll in MUS 101.

Credits: 3 Lecture: 3

MUS 205 - INTRODUCTION TO JAZZ HISTORY

Introduction to the history of jazz. Major styles and significant jazz artists are studied in depth. No previous musical knowledge required. Not offered every term.

Credits: 3 Lecture: 3

MUS 207 - HISTORY OF ROCK MUSIC

Students will learn the history of rock music from its beginnings in earlier forms of popular music to the present; to understand the relationship of this music to larger cultural, political and economic formations; and to become familiar with aspects of musical structure that have been used in rock music. Students will communicate their knowledge through participation with discussion groups, activities, listening examples, and a written project about an artist or rock band that came out of rock music.

Credits: 3 Lecture: 3

MUS 211 - MUSIC THEORY IIA

A continuation of common-practice period harmony (Music Theory I) with stress on chromatic resources, musical form, and style analysis including an introduction to harmonic practices of the 20th and 21st centuries. Recommended preparation: MUS 113. Recommended to be taken with: MUS 214.

Credits: 3 Lecture: 3

MUS 212 - MUSIC THEORY IIB

A continuation of common-practice period harmony (Music Theory I) with stress on chromatic resources, musical form and style analysis including an introduction to harmonic practices of the 20th and 21st centuries. Recommended preparation: MUS 211. Recommended to be taken with: MUS 215.

Credits: 3 Lecture: 3

MUS 213 - MUSIC THEORY IIC

A continuation of common-practice period harmony (Music Theory I) with stress on chromatic resources, musical form and style analysis including an introduction to harmonic practices of the 20th and 21st centuries. Recommended preparation: MUS 212. Recommended to be taken with: MUS 216.

Credits: 3 Lecture: 3

MUS 214 - MUSICIANSHIP IIA

Builds aural acuity through drill and practice in ear training, sight singing and dictation. Computer based exercises and tests are an important part of the work. Recommended preparation: MUS 116. Recommended to be taken with: MUS 211.

Credits: 2 Lecture: 2

MUS 215 - MUSICIANSHIP IIB

Builds aural acuity through drill and practice in ear training, sight singing and dictation. Computer based exercises and tests are an important part of the work. Recommended preparation: MUS 214. Recommended to be taken with: MUS 212.

Credits: 2 Lecture: 2

MUS 216 - MUSICIANSHIP IIC

Builds aural acuity through drill and practice in ear training, sight singing and dictation. Computer based exercises and tests are an important part of the work. Recommended preparation: MUS 215. Recommended to be taken with: MUS 213.

Credits: 2 Lecture: 2

MUS 298 - INDEPENDENT STUDY: MUSIC

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

MUSIC -SMALL ENSEMBLES/LESSONS

MUP 105 - JAZZ COMBO

Performance of wide range of jazz styles in a small-group setting with an emphasis on developing knowledge and skills in improvising. Students should have some previously developed proficiency on an instrument or voice. May be repeated, no limit.

Credits: 2 Lecture: 2

MUP 111 - WOODWIND ENSEMBLE

The study and performance of chamber music for woodwind instruments in an ensemble such as a woodwind or a clarinet quartet. Instructor approval required. Not offered every year. May be repeated, no limit.

Credits: 2 Lecture: 2

MUP 114 - VOCAL ENSEMBLE

A select group of singers that focuses on various jazz idioms: blues, funk, Latin and straight-ahead. Enrollment is by audition. Recommended to be taken with MUS 197A. Contact choral program director for information about required audition. May be repeated, no limit.

Credits: 2 Lecture: 2

MUP 146 - STRING ENSEMBLE

Study and performance of chamber music for bowed string instruments in a group such as string quartet or for string ensembles including a keyboard instrument. Instructor approval required. Not offered every year. May be repeated, no limit.

Credits: 2 Lecture: 2

MUP 171 - APPLIED PIANO

Private lessons provide individual instruction in techniques of performance for voice, guitar, keyboard and all standard string, woodwind, brass and percussion instruments. Instructor's permission and additional fee required. Contact the department chair or administrative assistant for additional information. May be repeated, no limit.

Credits: 1 Other: .5

MUP 174 - APPLIED VOICE

Credits: 1 Other: .5

MUP 175 - APPLIED VIOLIN

Credits: 1 Other: .5

MUP 176 - APPLIED VIOLA

Credits: 1 Other: .5

MUP 177 - APPLIED CELLO

Credits: 1 Other: .5

MUP 178 - APPLIED BASS

Credits: 1 Other: .5

MUP 180 - APPLIED GUITAR

Credits: 1 Other: .5

MUP 181 - APPLIED FLUTE

Credits: 1 Other: .5

MUP 182 - APPLIED OBOE

Credits: 1 Other: .5

MUP 186 - APPLIED TRUMPET

Credits: 1 Other: .5

MUP 187 - APPLIED FRENCH HORN

Credits: 1 Other: .5

MUP 188 - APPLIED TROMBONE

Credits: 1 Other: .5

MUP 271 - APPLIED PIANO

Private lessons provide individual instruction in techniques of performance for voice, guitar, keyboard and all standard string, woodwind, brass and

percussion instruments. Additional fee required. Contact the department chair or administrative assistant for additional information. May be repeated, no limit. Instructor approval required.

Credits: 1 Other: .5

MUP 274 - APPLIED VOICE

Credits: 1 Other: .5

MUP 276 - APPLIED VIOLA

Credits: 1 Other: .5

MUP 277 - APPLIED CELLO

Credits: 1 Other: .5

MUP 280 - APPLIED GUITAR

Credits: 1 Other: .5

NURSING

NUR 088 - SPECIAL STUDIES: NURSING

Allows nursing students to pursue special content area. Special study arrangements must be made through the Nursing program coordinator.

Credits: 1 to 8

NUR 099 - SPECIAL TOPICS: NURSING

This course is in development.

Credits: 1 to 8

NUR 103 - NURSING ASSISTANT

Covers basic nursing assistant level one care and effective communication skills for clients in acute and longterm care facilities. Issues of confidentiality, client rights and role of the nursing assistant are discussed. Students are eligible to sit for the Oregon State Board of Nursing-sanctioned certified nursing assistant level one examination upon satisfactory performance of course outcomes and assessments, and completion of the minimum 155 mandatory student contact hours: 80 hours of lecture/lab and 75 hours of clinical experience. Clinic takes place in acute and long-term care facilities. To enroll in the course, students must hold a current American Heart Association, Health Care Provider CPR card, pass a criminal history check, pass a urine drug screen and meet immunization and TB test requirements. CNA program director approval required.

Credits: 7 Lecture: 3.2 Lab: 4.8 Other: 7.5

NUR 104 - CERTIFIED NURSING ASSISTANT: LEVEL 2

Provides an Oregon State Board of Nursing-approved standardized curriculum and competency evaluation for the designation of Level 2 Nursing Assistant in Acute Care. This course focuses on technical skills, interpersonal skills and communication, safety, infection control and documentation with the outcome of demonstrated proficiency in knowledge, skills and abilities in these areas. The course has a clinical component to be scheduled at an acute-care facility. To enroll in the course, students must hold a current, unencumbered Oregon CNA 1 certificate, hold a current Healthcare Provider CPR card, pass a criminal history check, and meet immunization and TB test requirements. Department approval required.

Credits: 6 Lecture: 4 Lab: 3 Other: 3

NUR 106 - NURSING I

Introduces basic concepts of nursing practice including nursing process, critical thinking, therapeutic communication, grief, loss and cultural considerations. Students will have the opportunity to begin learning about patients with altered states of health. Students will become familiar with the major drug classifications and develop working knowledge of pharmacological principles. Lab skills focus on a core set of beginning level nursing skills in the areas of physical assessment and wound care management. The clinical practicum provides students with the opportunity to apply knowledge and clinical skills to the adult patient with basic nursing care needs. First term of the Practical Nursing sequence and of the Nursing program. Requires admission to the Nursing program.

Credits: 12 Lecture: 7 Lab: 6 Other: 9

NUR 107 - NURSING II

Continues to introduce the knowledge and skills that are necessary in providing nursing care to individual patients experiencing an altered state of health. The clinical lab focuses on developing skills in the areas of medication administration and urinary catheterization. The clinical practicum provides students with the opportunity to apply knowledge and clinical skills to the adult patient with medical-surgical nursing needs. Second term of the PN sequence and the Nursing program. Requires admission to the Nursing program.

Credits: 10 Lecture: 4 Lab: 4.5 Other: 13.5

NUR 108 - NURSING III

Provides students with the opportunity to obtain the knowledge and skills that are necessary to implement the role of a practical nurse in providing care to acutely ill patients across the lifespan. Concepts of mental health and maternal child nursing are introduced. The ability to communicate effectively, therapeutically and professionally is emphasized. Students will transfer pharmacological knowledge and concepts of safe, patient medication administration to the Learning Resource Center and clinical setting. The clinical skills lab provides a comprehensive assessment of the student's complete set of core nursing skills from the first year of the Nursing program. The clinical practicum provides the opportunity for patient-centered care based on established standards and contributes to nursing care delivery at the practical nurse level. Final term of the practical nursing sequence and the third term of the Nursing program. Requires admission to the Nursing program.

Credits: 11 Lecture: 6 Lab: 3 Other: 12

NUR 188 - SPECIAL STUDIES: NURSING I

Allows first-year nursing students to pursue a special content area in nursing. Special study arrangements must be made through the designated Nursing department special studies coordinator.

Credits: 1 to 8

NUR 199 - SELECTED TOPICS: NURSING I

Presents selected topics of study in the field of nursing offered on a temporary or experimental basis for first year Nursing students.

Credits: 1 to 8

NUR 206 - NURSING IV

Focuses on the integration of knowledge and skills acquired in the first year of the Nursing program as the student transitions from the practical nurse to the registered nurse role. Nursing curriculum expands on the concepts of nursing process, caring, holism and professionalism at the registered nurse level. Emphasis is on the development of critical thinking and caring interventions toward individuals and their significant others. Clinical skills lab focuses on the development of higher-level clinical skills and decision making in regards to intravenous medication, fluid therapy and assessment skills. Clinical practicum provides the students with an opportunity to provide holistic, individualized nursing care for complex medical-surgical patients and mentally ill clients. Fourth term of the Nursing program, first term of the RN sequence. Requires completion of the first-year Nursing program or admission with advanced placement.

Credits: 11 Lecture: 6 Lab: 4.5 Other: 10.5

NUR 207 - NURSING V

Focuses on the concepts of community-based nursing care of individuals and significant others, care of the critically ill patient, as well as maternal child care of the high risk childbearing family. The nursing curriculum continues to expand on the role of the RN and to promote critical thinking and clinical decision making. Students further develop their skills in patient teaching, patient care planning and patient care management skills. Clinical skills lab provides students with opportunities to simulate the care of complex, acutely ill patients. The clinical practicum focuses on applying the nursing process to provide and direct holistic, individualized patient care. Students are provided additional experiences in community-based and mental health clinical settings. Fifth term of the Nursing program, second term of the RN sequence of the program. Requires admission to the Nursing program.

Credits: 10 Lecture: 5 Other: 15

NUR 208 - NURSING VI

Focuses on refining clinical, decision-making skills related to the complex health care needs of patients across the lifespan in a variety of health care settings. The holistic, individualized needs of the individual and family are the focus for collaborative care management decisions. Theoretical concepts of quality management, legal and ethical issues, leadership and management of care; and nursing care of patients with life-threatening conditions are addressed in relation to clinical practice. Students participate in a four-week, full-time capstone clinical experience focusing on managing groups of patients or individual patients with high-level needs. The course includes a capstone case study presentation. Sixth term of the Nursing program, third term of the RN sequence. Requires admission to the Nursing program.

Credits: 9 Lecture: 4 Other: 15

NUR 218 - BASIC EKG

Basic three-lead electrocardiograph interpretation. Open to Allied Health, Excercise Science/Kinesiology and Nursing students.

Credits: 1 Lecture: 1

NUR 280A - CWE NURSING I

Provides an opportunity for first year Nursing students who also possess their CNA license to obtain college credit while providing direct patient care in acute or long-term care facility. Requires admission to the Nursing program, status as a certified nursing assistant and approval from the Nursing department work experience coordinator.

Credits: 1 to 4

NUR 280B - CWE NURSING II

Provides an opportunity for second year Nursing students who also possess their LPN license to obtain college credit for providing direct patient care while employed in a long-term or acute-care facility. Requires admission to the Nursing program, LPN status and approval from the Nursing department work experience coordinator.

Credits: 1 to 4

NUR 288 - SPECIAL STUDIES: NURSING

Allows second-year nursing students to pursue a special content area in nursing. Special study arrangements must be made through the Nurse administrator.

Credits: 1 to 4

NUR 298 - INDEPENDENT STUDY: NURSING

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required. Credits: 1 to 4

NUR 299 - SELECTED TOPICS: NURSING

Presents selected topics of study in the field of nursing offered on a temporary or experimental basis for second year Nursing students.

Credits: 1 to 3

OUTDOOR LEADERSHIP

OL 111 - INTRODUCTION TO OUTDOOR LEADERSHIP

Designed to introduce students to the field of outdoor recreation, outdoor education, adventure education, therapeutic recreation and experiential education. Upon completion of this course, students should have a good understanding of the differences between the subspecialties in the field. Includes the history of programs, an introduction to theories, current topics, career options and preparation needed for those careers. Course may help students decide if an educational path in outdoor leadership is something they wish to pursue. Guest speakers representing various careers/areas will present their experiences to the class. This is a foundation course and a recommended prerequisite to outdoor leadership program courses. Prerequisite: WR 065.

Credits: 3 Lecture: 3

OL 160 - PROCESSING THE EXPERIENCE

Students will be introduced to a variety of creative processing tools to be used either during or after the experience. The use of a field journal for reflection notes, as well as for processing through creative pursuits like sketching or painting will be introduced, as will group-based processing tools like formal debriefs, creating skits and collaborative art projects.

Credits: 2 Lecture: 2

OL 171 - TECHNICAL SKILLS FOR OUTDOOR LEADERSHIP

This course focuses on introducing students to a variety of basic skills, gear and systems necessary for a variety of outdoor pursuits, including alpine mountaineering, challenge course and rock climbing. Students are introduced to a variety of skills, with the intention of moving into more guide-oriented courses later in their program. This class will present students with various technical skills that will serve as a foundation for the advanced training in specific outdoor disciplines. Students will be introduced to gear, such as software (ropes, webbing, harnesses) and hardware (carabiners, friction devices), skills, such as knots, belaying, rappelling and systems such as anchors, raises, lowers.

Credits: 2 Other: 4

OL 194AA - AVALANCHE LEVEL I

This course is designed to introduce the student to the various factors that contribute to avalanche hazard including terrain, weather, snowpack and the human component (good vs. bad decision making). Avalanche safety equipment such as transceivers, probes and shovels are also presented, with instruction on how to use each of these critical pieces of safety gear. Additional field time is spent on practicing transceiver search techniques (single and multiple burial), snowpack assessment (through a 'Test-pit Plus'), and safe travel practices/group travel skills. The course includes one or more mock avalanche rescues.

Credits: 1 Other: 2

OL 194AB - AVALANCHE LEVEL I REFRESHER

This course is designed to review the materials from Avalanche Level I, including the various factors that contribute to avalanche hazard including terrain, weather, snowpack and the human component (good vs. bad decision making). Avalanche safety equipment such as transceivers, probes and shovels are also reviewed, along with how to use each of these critical pieces of safety gear. Field time is spent practicing transceiver search techniques (single and multiple burial), snowpack assessment (through a 'Test-pit Plus'), and safe travel practices and group travel skills. Students must have completed an Avalanche Level I course within the past five years. Recommended preparation: OL 194AA or instructor approval.

Credits: 1 Other: 2

OL 194AC - AVALANCHE LEVEL II

This course is designed to build on the skills developed in an Avalanche Level I course. The various factors that contribute to avalanche hazard including terrain, weather, snowpack and the human component (good vs. bad decision making) will be reviewed, as will avalanche safety equipment such as transceivers, probes and shovels and their correct use. New material will include use of a field notebook and standardized data recording, as well as completing full pit profiles. Field time is spent practicing and reviewing transceiver search techniques (single and multiple burial), snowpack assessment (through 'Test-pit,' 'Test-pit Plus' and 'Full-pit'), and safe travel practices and group travel skills. Students must have completed an Avalanche Level I or Level I Refresher course within the past five years. Recommended preparation: OL 194AA or OL 194AB or instructor approval.

Credits: 2 Lecture: 1 Other: 2

OL 199 - SELECTED TOPICS: OUTDOOR LEADERSHIP

This course is in development.

Credits: 1 to 4

OL 207 - SEMINAR IN OUTDOOR LEADERSHIP

This course will help prepare students for entering the job market and/ or setting up a professional practicum through the following: where to search for jobs, how to apply and how to interview and how to prepare professional resumes, cover letters, experience resumes and professional portfolios. Professional development opportunities such as conferences, certifications, trainings, etc. will be discussed, as will current research and trends in employment in fields related to outdoor leadership.

Credits: 2 Lecture: 2

OL 244 - PSYCHOLOGY OF RISK AND ADVENTURE

Introduces students to psychological theories and topics relevant to adventure and risk, including perception, motivation, anxiety, arousal and risk-taking. This course will provide a theoretical and skills-based approach to understanding why the psychological components of risk and adventure play a pivotal role in outdoor leadership. Recommended preparation or recommended to be taken with: WR 121.

Credits: 3 Lecture: 3

OL 251 - WILDERNESS FIRST AID

Designed to provide the student with the necessary knowledge and skills to care for an injured or suddenly ill person in a remote location. The methods and protocols presented follow the Wilderness Medical Society guidelines for a 16 hour certification and are specific to a wilderness setting. The Wilderness Medical Society defines wilderness as a remote geographical location more than one hour from definitive care. Open to all and counts as an elective for Outdoor Leadership students.

Credits: 1 Lecture: 1 Lab: 1

OL 253 - WILDERNESS ADVANCED FIRST AID

This course is designed to provide the student with the necessary knowledge and skills to care for an injured or suddenly ill person in a remote location. The methods and protocols presented in this class follow the Wilderness Medical Society guidelines for a 36 hour certification and are specific to a wilderness setting. The Wilderness Medical Society defines wilderness as a remote geographical location more than one hour from definitive care.

Credits: 3 Lecture: 2 Other: 2

OL 255 - OUTDOOR LIVING SKILLS

Educates the student on how to travel safely for extended periods in the backcountry. Presents essentials of life (water, food and shelter/clothing) and how they can be provided in an outdoors setting. Also discusses navigation, backcountry medicine and wilderness use/wilderness concepts. Lecture, discussion and lab (demonstration, practical application and practice) used. Students conduct one solo overnight and one group weekend outing. This is a foundation course and recommended preparation to Outdoor Leadership program courses.

Credits: 5 Lecture: 4 Lab: 3.6

OL 263 - BASIC WILDERNESS LIFE SUPPORT

Basic Wilderness Life Support is a wilderness first responder course designed to provide an individual with an in-depth knowledge of wilderness medicine and the basic skills to treat the most common injuries and illnesses encountered in the wilderness. This course is appropriate for those who spend a lot of time in remote locations (professionally or recreationally). The methods and protocols presented in this class follow the Wilderness Medical Society guidelines for a 74 hour certification and are specific to a wilderness setting. The Wilderness Medical Society defines wilderness as a remote geographical location more than one hour from definitive care. Students are required to complete a 1 credit CPR course with certification in order to satisfy the BWLS certification. A specific section of the American Heart Association's Healthcare Provider CPR course will be offered exclusively for BWLS students. Registration for the CPR class will be separate from registration for the BWLS class.

Credits: 5 Lecture: 3 Other: 4

OL 271 - FACILITATING GROUP EXPERIENCES

Introduces the broad concepts of group facilitation and presents the various "generations" of adventure facilitation. Students will become familiar with various models of the facilitation process and how each relates to experiential learning. Coursework integrates introductory concepts of leadership, foundational experiential education theory and the practice of facilitation in a variety of modes, including both high and low elements. Students are responsible for facilitating various group initiatives as a way to further comprehend the concepts presented.

Successful students will be prepared to effectively and confidently facilitate groups in a variety of learning environments. This is a foundation course and a recommended preparation for other Outdoor Leadership program courses. Prerequisites: OL 111, OL 255, OL 263, WR 121.

Credits: 5 Lecture: 4 Lab: 3

OL 273 - OUTDOOR RECREATION LEADERSHIP

This course is designed to provide both theoretical and practical knowledge of group leadership in an outdoor setting. Topics will be presented in lecture, discussed in various leadership scenarios and then applied in group outings that the students will plan and lead. Special emphasis will be placed on group safety issues and risk assessment/risk management. Prerequisites: OL 111, OL 255, OL 263, WR 121.

Credits: 5 Lecture: 4 Lab: 3.6

OL 280 - CO-OP WORK EXPERIENCE-OL

Provides practicums by the department in conjunction with the community in outdoor recreation, outdoor education, adventure education, environmental education, experiential education and wilderness therapy. Students must be approved for enrollment by an HHP-OL advisor before registering for this course. Recommended preparation: complete a minimum of three OL classes with at "C" grade or better prior to taking a practicum and must be approved for enrollment by an HHP/Outdoor Leadership advisor before registering.

Credits: 2 Other: 6

OL 294AC - ALPINE CLIMBING

Designed to introduce the student to guiding, teaching and leading technical mountain travel with specific emphasis on rock, snow and ice anchors, glacier travel and crevasse rescue, and climbing steeper snow and ice. Additional relevant topics may also be introduced (e.g., avalanche safety, high altitude). Prerequisites: OL 171, OL 271, OL 273.

Credits: 3 Lecture: 1.5 Lab: 4.5

OL 294CA - CANOE PROGRAM INSTRUCTION AND GUIDING

Introduces students to guiding, teaching and leading flat and moving water canoe programs. May also be introduced (swift water rescue, whitewater techniques, etc.). Students will be instructed on the use of a variety of canoeing equipment and techniques used for travel by canoe within instructing/guiding situations (this course will teach much of the preliminary level material). Topics will include such areas as: water dynamics, rescue, client care and welfare, managing a group setting, risk assessment, as well as specific technical skills. Emphasis will be placed on advanced technical skill development and practical application. Although some time will be spent canoeing, this is not an activity course. All aspects of the course will be designed to teach the basic concepts of leading others in a variety of canoeing situations. Prerequisites with concurrency: OL 271, OL 273.

Credits: 3 Lecture: 2 Other: 4

OL 294MB - MOUNTAIN BIKE GUIDING AND TRAIL STEWARDSHIP

This course is designed to instruct the student how to provide a fun and safe guided mountain bike experience to people of all ages through a combination of field lecture and hands-on practice. Students will learn how to teach basic mountain bike skills, design and lead group trips, diagnose trailside mechanical issues and perform basic trailside bike maintenance, and understand the characteristics and importance of sustainable mountain bike trail development and stewardship. The majority of the class time for this course will be spent in the field. Prerequisites: OL 271, OL 273.

Credits: 3 Lecture: 1 Lab: 6

OL 294RC - TEACHING ROCK CLIMBING

This course is designed as an introduction to guiding/teaching rock climbing. Students will be instructed on the use of a variety of climbing equipment and techniques used for top-roped and lead climbing in guiding/teaching situations (this course will not teach beginning level material except in how to teach such material to a beginner student/client/friend). Topics will include such areas as: client care and welfare, managing a group setting, risk assessment, as well as technical skills. Emphasis will be placed on group work, discussion and practical

application. Although some time will be spent climbing, this is not an activity course. All aspects of the course will be designed to teach the basic concepts of leading others in a variety of rock climbing situations. Prerequisites: OL 171, OL 271, OL 273.

Credits: 3 Lecture: 1.5 Lab: 4.5

OL 294WG - WHITEWATER RAFT GUIDING

This course is designed to instruct the student on how to provide a fun and safe whitewater raft experience to people of all ages through a combination of lecture and hands-on practice. Students will learn how to guide paddle rafts and oar rafts, read whitewater, lead group trips and execute various whitewater rescue techniques. The majority of the class time for this course will be spent in the field, including overnight camping and a variety of weather conditions may be encountered. A background in camping or outdoor living skills is strongly recommended. Please dress appropriately. Prerequisites: OL 171, OL 271, OL 273.

Credits: 3 Lecture: 1.5 Lab: 4.5

OL 298 - INDEPENDENT STUDY: OUTDOOR LEADERSHIP

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

PHARMACY TECHNICIAN

PHM 100 - PHARMACY TECHNICIAN PRACTICE I

This course teaches pharmacy technician students information, techniques and procedures needed to assist the pharmacist in delivery of pharmaceutical products and services. The main objective is to provide the students with a working knowledge of the many aspects of pharmacy in community, institution and other practice settings. Progressive learning takes place as new information and skill sets are studied throughout the course. Students will understand the regulatory agencies and laws that affect pharmacy practice. Emphasis is placed on the duties and responsibilities of the pharmacy technician to assist the pharmacist. This course explores employment opportunities, interpretation and processing of prescriptions, pharmacy law, standards of practice and orientation to the skills required for the occupation of a pharmacy technician. Prerequisites: choose either WR 065, WR 095, or higher or placement into WR 121 and MTH 058 or MTH 065 or higher, or minimum placement into MTH 095. Corequisites: PHM 101, PHM 120.

Credits: 5 Lecture: 5

PHM 101 - PHARMACY TECH LAW AND ETHICS

This course orients students to the work of pharmacy technicians. Students learn the concept of direct patient care and the technician's role in its delivery with emphasis on the complementary roles of pharmacists and technicians in both the community and institutional pharmacy setting. Students are introduced to the federal and state laws as well as the standards of practice which govern the practice of pharmacy. Students will be able to identify examples of professionalism in pharmacy and discuss the important areas of the Health Insurance Portability and Accountability Act (HIPAA) as it relates to patient confidentiality. Corequisites: PHM 100, PHM 120.

Credits: 3 Lecture: 3

PHM 110 - PHARMACY CALCULATIONS

This online course reviews basic mathematics related to the application of math concepts to the duties of the pharmacy technician. This course covers the systems of weight, measurement and temperature and the conversion from one system to the other. Emphasis is placed on the math skills needed to calculate doses, drug quantity or volume, intravenous flow rates and percentage concentrations and to learn the mechanics of proportions related to pharmaceutical dosing. The basics of retail pricing and accounting are introduced. Prerequisites: PHM 100, PHM 101, PHM 120. Corequisites: PHM 130, 140.

Credits: 3 Lecture: 3

PHM 115 - RETAIL SIMULATION LAB

Laboratory instruction complements the lecture with hands-on experience in medication preparation, dispensing, calculations and business applications.

Credits: 2 Other: 4

PHM 120 - PHARMACOLOGY I

This online course introduces students to trade and generic names of commonly prescribed drugs used in prevention and treatment of various disease entities. Emphasis is placed on important contraindications, side effects, precautions and interaction of drugs and the process of drug utilization review. The course will provide a basic understanding of pharmacological categories and factors than can affect drug kinetics. Corequisites: PHM 100, PHM 101.

Credits: 5 Lecture: 5

PHM 130 - PHARMACOLOGY II

This online course continues the introduction to trade and generic names of commonly prescribed drugs used in prevention and treatment of various disease entities. Emphasis is placed on important contraindications, side effects, precautions and interaction of drugs and the process of drug utilization review. The course will provide a basic understanding of pharmacological categories and factors than can affect drug kinetics. Corequisites: PHM 110, PHM 140.

Credits: 5 Lecture: 5

PHM 140 - PHARMACY TECHNICIAN PRACTICE II

Teaches the information, techniques and procedures needed to assist the pharmacist in delivery of pharmaceutical products and services. Provides a working knowledge of the many aspects of pharmacy in a community, institution and other practice settings. Progressive learning takes place as new information and skill sets are studied throughout the course. Students will understand the regulatory agencies and laws that affect pharmacy practice. Emphasis is placed on the duties and responsibilities of the pharmacy technician. This course explores employment opportunities, interpretation and processing of prescriptions, pharmacy law, standards of practice and orientation to the skills required for the occupation of a pharmacy technician. Application of skills in a practical setting will be covered. This is a four-credit hybrid course and students should expect to spend nine to 12 hours per week completing the required course work. In addition to the online section, this course requires a one-credit (20 hour) lecture-lab session. Lab sessions are 1.5 hours once a week (days and times to be determined). The labs will be held on the COCC Bend campus and students are responsible for all travel expenses. Corequisites: PHM 110, PHM 130.

Credits: 5 Lecture: 5

PHM 145 - INSTITUTIONAL SIMULATION LAB

Laboratory instruction completes the lecture with hands-on experience in intravenous medication preparation, sterile compounding, calculations and maintaining drug stocks.

Credits: 2 Other: 4

PHM 181 - PHARMACY TECHNICIAN SEMINAR

This online seminar presents discussions on various aspects of the practicum. Students will share work related experiences with the instructor and their peers. Students will prepare to take the Pharmacy Technician National Certification exam. Covers employment opportunities, resume writing, completing job applications and interviewing skills. Prerequisites: PHM 110, PHM 130, PHM 140. Corequisites: PHM 190, PHM 191.

Credits: 2 Lecture: 2

PHM 190 - PHARMACY TECHNICIAN PRACTICUM I: HOSPITAL/INSTITUTIONAL

This course is an unpaid learning experience which takes place on site at a prearranged clinical facility and is supervised by a registered pharmacist. Each credit is equivalent to 30 hours participation in the clinical worksite. Passing grade will require completion of 120 hours of practice at a facility registered with the Central Oregon Community College Pharmacy Technician program. You must keep a notebook to log experiences at the worksite and report in the Journal Section of the Pharmacy Seminar Course (PHM 181). A satisfactory evaluation must be

submitted by your preceptor that you have successfully exhibited skills in a hospital (institutional) pharmacy. Corequisites: PHM 181, PHM 191.

Credits: 4 Other: 12

PHM 191 - PHARMACY TECHNICIAN PRACTICUM II: RETAIL/COMMUNITY

This course is an unpaid learning experience which takes place on-site at a prearranged clinical facility and is supervised by a registered pharmacist. Each credit is equivalent to 30 hours participation in the clinical setting. Passing grade will require completion of 120 hours of practice at a facility registered with the Central Oregon Community College Pharmacy Technician program. You must keep a notebook to log experiences at the worksite and report in the Journal Section of the Pharmacy Seminar Course (PHM 181). A satisfactory evaluation must be submitted by your preceptor that you have successfully exhibited skills in a retail (community) pharmacy. Corequisites: PHM 181, PHM 190.

Credits: 4 Other: 12

PHILOSOPHY

PHL 170 - PHILOSOPHY OF LOVE AND SEX

Provides an overview of the primary historical and contemporary Western views on the nature and meaning of romantic love. Students will analyze the links philosophers have found among beauty, friendship, passion, loyalty and transcendence and will also create their own philosophies of romantic love.

Credits: 3 Lecture: 3

PHL 199 - SELECTED TOPICS: PHILOSOPHY

This course is in development.

Credits: 1 to 3

PHL 200 - FUNDAMENTALS OF PHILOSOPHY

Explores some of the major questions and philosophical subject areas of the Western World. Includes questions such as the existence of God, or not; how we know what we think we know; social and political philosophy; ethics; free will and determinism; the existence of other minds; questions concerning the existence of a mind-independent external world; and philosophical underpinnings of science. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

PHL 201 - PROBLEMS OF PHILOSOPHY - EPISTEMOLOGY

Explores basic problems and different theories of knowledge along with related issues in metaphysics, for example: how to define the nature and limits of knowledge; rationalist vs. empiricist perspectives; assumptions about reality and existence; and arguments for and against the existence of God. Recommended preparation: WR 121 or equivalent skills.

Credits: 3 Lecture: 3

PHL 202 - PROBLEMS OF PHILOSOPHY - ETHICS

Explores basic problems in moral and social philosophy along with issues related to human nature, for example: how to define a good life or a good society, what is the nature of happiness, pleasure, virtue and justice, consequence vs. duty-based theories, the role of reason and/or passion and arguments for and against natural law. Recommended preparation: WR 121 or equivalent skills.

Credits: 3 Lecture: 3

PHL 203 - PROBLEMS OF PHILOSOPHY - LOGIC

Introduction to the study of reasoning and critical thinking. This involves identifying and evaluating deductive and inductive forms, distinguishing validity from truth/soundness, examining informal fallacies and the limits of language, constructing different types of arguments and applying these tools to issues in science, politics, morality and everyday life. Recommended preparation: MTH 095 or Math placement scores that place a student in MTH 105, WR 121 or equivalent skills.

Credits: 3 Lecture: 3

PHL 298 - INDEPENDENT STUDY: PHILOSOPHY

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required. Credits: 1 to 4

PHYSICS

PH 201 - GENERAL PHYSICS I

Studies Newtonian Mechanics beginning with basic math concepts and continuing into kinematics, dynamics, uniform circular motion, energy, momentum and rotational equivalents of some of these topics. Lab addresses experiments and applied settings of Newtonian Mechanics along with explorations of diverse methods for analyzing and interpreting scientific data. Meets the basic requirements for many pre-health and life science programs. Should be taken in sequence. Recommended to be taken with: MTH 111.

Credits: 5 Lecture: 4 Lab: 3

PH 202 - GENERAL PHYSICS II

Studies basic electrostatic and magnetic interactions. Builds on concepts from PH 201 and continues into electrostatic forces, electric field concepts, electric potential, basic DC circuit concepts, magnetic interactions and forces, sources of magnetic fields and Faraday's Law. Lab addresses concepts and measurements in thermal physics and continues to explore the processes by which science seeks answers to questions. Meets the basic requirements for many pre-health and life science programs. Should be taken in sequence. Recommended to be taken with: MTH 112.

Credits: 5 Lecture: 4 Lab: 3

PH 203 - GENERAL PHYSICS III

Studies periodic behavior and topics from modern physics. Builds on concepts from previous terms and considers the physics of periodic motion, mechanical waves, wave interference, standing waves, acoustic waves, electromagnetic waves, geometric optics, diffractions and topics from special relativity to quantum mechanics. Lab includes basic optical experiences along with a long-term project to affirm student abilities to integrate investigative lab concepts from previous terms. Meets the basic requirements for many pre-health and life science programs. Should be taken in sequence.

Credits: 5 Lecture: 4 Lab: 3

PH 211 - GENERAL PHYSICS I

Studies Newtonian Mechanics beginning with basic math concepts and continuing into kinematics, dynamics, uniform circular motion, energy, momentum and rotational equivalents of some of these topics. At all stages, applications of calculus to the solving of problems will be explored. Lab addresses experiments and applied settings of Newtonian Mechanics along with explorations of diverse methods for analyzing and interpreting scientific data. Required for engineering students and most students planning programs in the physical sciences. Should be taken in sequence. Recommended preparation: MTH 251.

Credits: 5 Lecture: 4 Lab: 3

PH 212 - GENERAL PHYSICS II

Studies basic electrostatic and magnetic interactions. Builds on concepts from PH 211 and continues into electrostatic forces, electric field concepts, electric potential, basic DC circuit concepts, magnetic interactions and forces, sources of magnetic fields and Faraday's Law. At all stages, applications of calculus to the solving of problems will be explored. Lab addresses concepts and measurements in thermal physics and continues to explore the processes by which science seeks answers to questions. Required for engineering students and most students planning programs in the physical sciences. Should be taken in sequence. Recommended preparation: MTH 252, PH 211.

Credits: 5 Lecture: 4 Lab: 3

PH 213 - GENERAL PHYSICS III

Studies periodic behavior and topics from modern physics. Builds on concepts from previous terms and considers the physics of periodic motion, mechanical waves, wave interference, standing waves, acoustic waves, electromagnetic waves, geometric optics, diffractions and topics from special relativity to quantum mechanics. At all stages, applications of calculus to the solving of problems will be explored. Lab includes basic optical experiences along with a long-term project to affirm student abilities to integrate investigative lab concepts from previous terms. Required for engineering students and most students planning programs in the physical sciences. Should be taken in sequence. Recommended preparation: MTH 253, PH 212. Recommended to be taken with: MTH 256.

Credits: 5 Lecture: 4 Lab: 3

PH 299 - SELECTED TOPICS: PHYSICS

This course is in development.

Credits: 1 to 5

POLITICAL SCIENCE

PS 188 - SPECIAL STUDIES: POLITICAL SCIENCE

Explores topics of current interest in the discipline.

Credits: 1 to 3

PS 198 - CO-OP WORK EXPERIENCE POLITICAL SCIENCE INTERNSHIP

Credits: 1 to 15

PS 199 - SELECTED TOPICS: POLITICAL SCIENCE

This course is in development.

Credits: 1 to 4

PS 201 - INTRODUCTION TO US GOVERNMENT AND POLITICS

Examines the American political system with its separation of powers, limited authority and guarantee of individual liberty. Includes a study of political ideology, parties, voting, media and interest groups. Special emphasis will be placed on a detailed study of the Constitution and its application in today's America. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

PS 203 - STATE/LOCAL GOVERNMENT

Examines the thousands of governments located at the state and local levels. Explores separation of powers between governors, legislatures and state court systems. Opportunity for individual involvement in the administration, innovation and promotion of democracy is investigated. Recommended preparation or recommended to be taken with: WR 121.

Credits: 3 Lecture: 3

PS 204 - INTRODUCTION TO COMPARATIVE POLITICS

Surveys the field of comparative politics through in-depth analyses of countries in Europe, the Middle East, Asia, Africa and the Americas. Comparative structures of these governments will be explored and analyzed in light of separation of powers, limited authority and individual rights. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

PS 205 - INTRODUCTION TO INTERNATIONAL RELATIONS

Introduces complex relations among the nations of a rapidly changing world. Focuses on the nature of the international system and factors affecting conflict and cooperation within the system. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

PS 206 - INTRODUCTION TO POLITICAL THOUGHT

Introduces the broad range of issues and approaches in political theory. Examines the diversity of the field, as it includes both classic and historical texts as well as contemporary thought. From Plato to

Machiavelli, and from Locke to Nietzsche, this course examines the major political themes of justice, equality, democracy, power and liberty. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

PS 207 - POLITICS OF THE MIDDLE EAST

This course is intended as an introduction to politics in the Middle East and therefore provides a general overview of some of the chief issues of contemporary Middle Eastern politics. These include the impact of colonialism, nationalism and nation-state formation, regional crisis, the Arab-Israeli conflict, the politics of oil, Islamism, democratization, political economy, globalization and human rights.

Credits: 4 Lecture: 4

PS 250 - TERRORISM AND THE AMERICAN PUBLIC

The course defines terrorism, considers the motivations of terrorists, considers policy proposals that might be taken to reduce the likelihood of terrorism and investigates the tensions inherent in democracies between civil liberties and national security. Recommended preparation: WR121

Credits: 4 Lecture: 4

PS 280 - CO-OP WORK EXPERIENCE POLITICAL SCIENCE

Provides experience in which students apply previous classroom learning in an occupational setting. Credits depend on the number of hours worked. P/NP grading. Instructor approval required.

Credits: 1 to 3

PS 298 - INDEPENDENT STUDY: POLITICAL SCIENCE

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

PS 299 - SELECTED TOPICS: POLITICAL SCIENCE

This course is in development.

Credits: 4 Lecture: 4 Lab: 12 Other: 12

PSYCHOLOGY

PSY 101 - APPLIED PSYCHOLOGY

This course introduces the basic foundation of psychology to degree-seeking students and career and technical students. Focuses on practical applications of psychological principles in the workplace and everyday life. Topics include motivation, emotions, individual development, identifying problem behavior, coping resources, group dynamics and communication skills. This course is considered a human relations component.

Credits: 3 Lecture: 3

PSY 188 - SPECIAL STUDIES: PSYCHOLOGY

Explores topics of current interest in the discipline.

Credits: 1 to 3

PSY 199 - SELECTED TOPICS: PSYCHOLOGY

This course is in development.

Credits: 1 to 4

PSY 201 - MIND AND BRAIN

Introduces psychology as a scientific study of the biological bases of behavior. Includes history of psychology as a science and surveys methods of inquiry, statistics, sensation, perception, states of consciousness including drug effects, motivation, emotion, learning, memory, language, thinking and intelligence. The major theoretical approaches to psychology are included. Recommended preparation: placement scores that allow enrollment into college-level reading.

Credits: 4 Lecture: 4

PSY 202 - MIND AND SOCIETY

Emphasizes psychology as a scientific process, surveying methods of inquiry. Overview of selected areas of psychological study including: human development through the life span, human sexuality, health psychology, personality theories and assessment, psychological

disorders, intervention and therapy, social psychology and human factors psychology. The major theoretical approaches to psychology are included. Recommended preparation: placement scores that allow enrollment into college level reading.

Credits: 4 Lecture: 4

PSY 204 - RESEARCH METHODS: DESIGN AND ANALYSIS

Learn scientific method and deepen your appreciation of why it is a valuable method for learning about the world. Teaches scientific concepts and terminology, how the scientific literature is used to generate hypotheses and interpret research findings, how research studies are designed, how data are collected and managed, and how statistics are used to understand data. Class will include discussions of parametric and nonparametric analyses, between subject designs, within subject designs, differences between experimental and correlational research and the differences between qualitative and quantitative data. Recommended preparation: placement scores that allow enrollment into college level reading.

Credits: 4 Lecture: 3 Lab: 3

PSY 213 - INTRODUCTION TO PHYSIOLOGICAL PSYCHOLOGY

This course provides a scientific introduction to the brain's anatomy and function. It builds a foundation for understanding sensory and motor systems, brain rhythms and brain plasticity. Essential neurophysiological processes that underlie topics such as human development, cognitive and emotional behavior, gender and psychological disorders will be presented. Recommended preparation: BI 121, BI 122, BI 231, BI 232, BI 233 or PSY 201.

Credits: 4 Lecture: 3 Lab: 3

PSY 214 - PERSONALITY PSYCHOLOGY

Examines the major theoretical perspectives on personality formation, including biological, psychodynamic, humanistic, cognitive, behavioral and sociocultural influences. Personality tests and measures are also discussed. The major theoretical approaches to psychology are included. Recommended preparation: placement scores that allow enrollment into college-level reading and PSY 201 or PSY 202.

Credits: 4 Lecture: 4

PSY 215 - DEVELOPMENTAL PSYCHOLOGY

Comprehensive study of human development over the life span from prenatal through late adult development. Focuses on physical, cognitive and psychosocial changes throughout the human life cycle and emphasizes an interactionist approach to explain developmental processes and outcomes. The major theoretical approaches to psychology are included. Recommended preparation: placement scores that allow enrollment into college-level reading.

Credits: 4 Lecture: 4

PSY 216 - SOCIAL PSYCHOLOGY

Surveys influence of psychological processes on groups and the influence of culture, society and groups on individuals. Includes analysis and exploration of behavior from a social psychology perspective. Topics include aggression, prejudice, conformity, affiliation, altruism, persuasion, interpersonal attraction, social cognition, conflict resolution, attitude formation and change, and applied social psychology. Recommended preparation: placement scores that allow enrollment into college-level reading, PSY 202 or SOC 201.

Credits: 4 Lecture: 4

PSY 219 - ABNORMAL PSYCHOLOGY

Introductory survey of the variety of emotional, mental and behavioral disorders experienced by humans. History, theoretical perspectives, diagnostic criteria and issues, etiology and treatment strategies are covered for the major forms of psychopathology. Recommended preparation: placement scores that allow enrollment into college-level reading.

Credits: 4 Lecture: 4

PSY 225 - EATING DISORDERS

This course explores eating behavior, weight regulation and body image in contemporary society. Cultural, familial, social, personal and biological factors in eating and weight problems will be examined. The course will

cover the full continuum from normal, healthy eating to clinical eating disorders and related behaviors, which include chronic dieting, excessive exercise, emotional eating, binge eating, obesity or poor body image. Recommended preparation: placement scores that allow enrollment into college-level writing.

Credits: 3 Lecture: 3

PSY 227 - ANIMAL BEHAVIOR

This course will cover the fundamental aspects of animal behavior: how and why animals behave and how animal behavior is studied. Topics include mechanisms of behavior, behavioral ecology, feeding, predation, mating, parenting, communication and social behavior.

Credits: 4 Lecture: 3 Lab: 3

PSY 228 - POSITIVE PSYCHOLOGY

This course explores the components necessary to help a person flourish in their environment by addressing the biopsychosocial aspects that contribute to positive behaviors and human strengths. Material will provide an overview of the theories of happiness, importance of self-care and positive social cognitions, utilizing strengths in personal and professional venues, and means of achieving healthy relationships personally and with one's community. Recommended preparation: placement scores that allow enrollment into college level reading.

Credits: 4 Lecture: 4

PSY 233 - PSYCHOLOGY OF VIOLENCE & AGGRESSION

Addresses the developmental, social, physiological and cultural aspects that contribute to violence and aggression as well as the legal issues involved. Includes an overview of the theories of aggression, as well as factors influencing family violence, violent children, mob mentality, hate crimes, war and terrorism, stalking, sex crimes and murder. Recommended preparation: placement scores that allow enrollment into college-level reading.

Credits: 4 Lecture: 4

PSY 280 - CO-OP WORK EXPERIENCE PSYCHOLOGY

Provides experience in which students apply previous classroom learning in an occupational setting. Credits depend on the number of hours worked. P/NP grading. Instructor approval required.

Credits: 1 to 4

PSY 298 - INDEPENDENT STUDY: PSYCHOLOGY

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

PSY 299 - SELECTED TOPICS: PSYCHOLOGY

This course is in development.

Credits: 1 to 4

READING

RD 099 - SELECTED TOPICS: READING

This course is in development.

Credits: 1 to 4

RD 117 - COLLEGE READING

Offers instruction in flexible reading skills. Focuses on building reading speed and comprehension, and acquiring a repertoire of reading strategies suitable for understanding and retaining information acquired in typical college reading.

Credits: 3 Lecture: 3

RD 199 - SELECTED TOPICS: READING

This course is in development.

Credits: 1 to 3

SOCIOLOGY

SOC 141 - FILM & SOCIETY: RACE, GENDER AND CLASS

Examines the representation of race, social class and gender in film. Special attention is given to how particular representations reflect the broader historical context surrounding when the films were produced and culturally based audience sentiments. Anthropological and sociological analyses of the films will be provided to give a multi-disciplinary account of how films reflect, create and support various ideological positions regarding race, class and gender. This course is also offered as ANTH 141, students can not use credit from both courses.

Credits: 2 Lecture: 1 Lab: 3

SOC 142 - FILM & SOCIETY: GLOBAL CULTURES

Examines global issues in both foreign and domestic films from sociological and anthropological perspectives. Selected films cover topics that are relevant to understanding global processes such as global economy and Islam in the contemporary world, as well as films that address the more regionally localized processes of community and family. The purpose of the course is to use film to expose students to diverse perspectives and to encourage the critical awareness of the global interconnections that influence and constrain our modern lives. Films will include documentaries as well as feature films.

Credits: 2 Lecture: 1 Lab: 3

SOC 143 - FILM & SOCIETY: CONTEMPORARY ISSUES

Examines contemporary issues in film from sociological and anthropological perspectives. Selected films cover such topics as youth culture, nationalism, local culture and poverty, mental health or other social problems. The content of the films, as well as issues of film production, historical context and audience reception will be the major focus of analysis.

Credits: 2 Lecture: 1 Lab: 3

SOC 199 - SELECTED TOPICS: SOCIOLOGY

This course is in development.

Credits: 1 to 4

SOC 201 - INTRODUCTION TO SOCIOLOGY

Provides conceptual tools for analyzing and understanding social forces that shape our lives. The relationships among socialization and social groups, as well as economic, political and religious systems are investigated. This course is considered a human relations component. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

SOC 208 - SPORT AND SOCIETY

While we use sociology to help make sense of sport, we also use sport to develop the ability to think sociologically about society. Subjects include sport and: values, socialization, deviance, social problems and social inequities. Recommended preparation: SOC 201.

Credits: 4 Lecture: 4

SOC 211 - SOCIAL DEVIANCE

Examines the definition of deviant behavior. Focuses on deviant behavior of societies as well as individuals including issues such as drugs, organized crime, government deviance and crimes against women. Recommended preparation: WR 121, SOC 201 or instructor approval.

Credits: 4 Lecture: 4

SOC 212 - RACE, CLASS AND GENDER

Analyzes the relationship between race, class and gender and political and economic systems. Critically examines the interrelationship between race, class and gender and societal structures and history. Recommended preparation: WR 121, SOC 201 or instructor approval.

Credits: 4 Lecture: 4

SOC 215 - SOCIAL ISSUES AND SOCIAL MOVEMENTS

Applies sociological analysis to contemporary issues and movements. Examples include the environmental crisis, race and ethnic relations, sexual deviancy, drug abuse, health care and violence. Recommended preparation: WR 121, SOC 201 or instructor approval.

Credits: 4 Lecture: 4

SOC 219 - SOCIOLOGY OF RELIGION

Surveys a variety of religious traditions and introduces the sociological perspective for the study of religion as part of a larger social order. Explores the nature of religious beliefs and practices, both historically and in contemporary context. Examines the relationship between religious traditions and the current globalization of the institution of religion in culture and society. Recommended preparation: SOC 201.

Credits: 4 Lecture: 4

SOC 222 - SOCIOLOGY OF FAMILY

The course examines the interrelationships between family life and society. By focusing on the interaction between family and society, the course addresses the impact of economic, social and political conditions on the institution of family past and present. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

SOC 250 - SOCIOLOGY OF POPULAR CULTURE

Course applies a sociological perspective to the study of films, music, advertising and other forms of popular culture. Three separate elements of popular culture are examined: the production of culture, the reception of culture and the text or symbols themselves. Recommended preparation: WR 121

Credits: 4 Lecture: 4

SOC 298 - INDEPENDENT STUDY: SOCIOLOGY

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 40

SOC 299 - SELECTED TOPICS: SOCIOLOGY

This course is in development.

Credits: 1 to 4

SPANISH

SPAN 101 - FIRST YEAR SPANISH I

Course designed for beginners, students with prior Spanish experience should contact COCC Spanish instructors to determine which Spanish course is appropriate for them. Begins the development of reading, writing, listening and speaking skills. Focuses on the concepts of pronunciation, gender, descriptions, possessives, present tense -ar verbs, numbers, question words and vocabulary that includes the following categories: alphabet, people, greetings, school items, family and activities.

Credits: 4 Lecture: 4

SPAN 102 - FIRST YEAR SPANISH II

Continues the development of reading, writing, listening and speaking skills. Focuses on the concepts of weather, time & date, clothing, colors, regular -er/-ir verbs, the verb gustar, interrogatives, stem-changing verbs (i-ie, e-i, o-ue), the city, the home, furniture & appliances, the verb estar (used with prepositions, adjectives, the present progressive and contrasted with the verb ser), the verb ir and the phrase ir + inifinitivo (used to refer to the future) and adjectives referring to physical and emotional states. Students are encouraged to review SPAN 101 concepts and vocabulary prior to class. Recommended preparation: SPAN 101 or one year of high school Spanish.

Credits: 4 Lecture: 4

SPAN 103 - FIRST YEAR SPANISH III

Final course in the first-year sequence. Continues the development of reading, writing, listening and speaking skills. Focuses on the concepts of professions, verbs with changes in the first person (yo), saber/conocer, body parts, reflexive verbs, adverbs of time and frequency, sports and outdoor activities, the preterite tense (including regular, stem-changing, and irregular verbs), food vocabulary, por/para, vocabulary related to meals and table settings and direct object pronouns. Students are encouraged to review the concepts of SPAN 101 and SPAN 102 prior to class. Recommended preparation: SPAN 102, two years of high school Spanish or instructor approval.

Credits: 4 Lecture: 4

SPAN 188 - SPECIAL STUDIES: SPANISH

Explores topics of current interest in the discipline.

Credits: 1 to 4

SPAN 199 - SELECTED TOPICS: SPANISH

This course is in development.

Credits: 4

SPAN 201 - SECOND YEAR SPANISH I

First course of the second-year sequence. Continues, after SPAN 103, with the intermediate development of reading, writing, listening and speaking skills. Includes review of the preterite tense and vocabulary from SPAN 103. Focuses on the imperfect tense, (usages with and in conjunction with the preterite), indirect, direct and double object pronouns, indefinite and negative words, por/para, creating adverbs and vocabulary including the following categories: chores and housework, fiestas and other celebrations, pastimes and diversion, and accidents. Recommended preparation: SPAN 103, three years of high school Spanish or instructor approval.

Credits: 4 Lecture: 4

SPAN 202 - SECOND YEAR SPANISH II

Continues with the intermediate development of reading, writing, listening and speaking skills. Focuses on the concepts of relative pronouns, the imperative (commands: formal, informal, plural and singular), the use of pronouns with the imperative, the impersonal and passive se, comparisons, using se to describe unplanned occurrences or accidents, the simple future tense and vocabulary including the following categories: travel, shopping, fine art, nature and the environment. Recommended preparation: SPAN 201, four years of high school Spanish or instructor approval.

Credits: 4 Lecture: 4

SPAN 203 - SECOND YEAR SPANISH III

Final course in the second-year sequence. Continues with the intermediate development of reading, writing, listening and speaking skills. Focuses on the concepts of estar used with past participles, the presente perfecto, the present subjunctive (used with: impersonal expressions, expressions of doubt, expressions of desire, expressions of emotion, adjective clauses, adverbial clauses and conjunctions), reciprocal verbs, the conditional tense, the past subjunctive, the past perfect tense and vocabulary covering the following: animals, personal relationships, popular culture, health and medical emergencies, and nationalities and political terms. Recommended preparation: SPAN 202, four years of high school Spanish or instructor approval.

Credits: 4 Lecture: 4

SPAN 211 - SPANISH CONVERSATION AND CULTURE I

Designed for students who wish to continue mastering fluency in the speaking of Spanish. Objective is to study various Spanish-speaking cultures. Taught exclusively in Spanish and some student participation is required. Does not meet baccalaureate degree language requirements. Recommended preparation or recommended to be taken with: SPAN 203 or instructor approval.

Credits: 3 Lecture: 3

SPAN 212 - SPANISH CONVERSATION AND CULTURE II

Designed for students who wish to continue mastering fluency in the speaking of Spanish. Objective is to study various Spanish-speaking cultures. Taught exclusively in Spanish and some student participation is required. Does not meet baccalaureate degree language requirements. Recommended preparation or recommended to be taken with: SPAN 203 or instructor approval.

Credits: 3 Lecture: 3

SPAN 213 - SPANISH COVERSATION AND CULTURE III

Designed for students who wish to continue mastering fluency in the speaking of Spanish. Objective is to study various Spanish-speaking cultures. Taught exclusively in Spanish and some student participation is required. Does not meet baccalaureate degree language requirements. Recommended preparation or recommended to be taken with: SPAN 203 or instructor approval.

Credits: 3 Lecture: 3

SPAN 288 - SPECIAL STUDIES: SPANISH

Explores topics of current interest in the discipline.

Credits: 1 to 4

SPAN 298 - INDEPENDENT STUDY: SPANISH

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

SPAN 299 - SELECTED TOPICS: SPANISH

This course is in development.

Credits: 1 to 4

SPEECH

SP 111 - FUNDAMENTALS OF PUBLIC SPEAKING

Emphasizes enhancing the relationship between speaker and audience through the content, organization and delivery of short oral presentations. Helps relieve student speech anxiety.

Credits: 4 Lecture: 4

SP 114 - ARGUMENTATION AND CRITICAL DISCOURSE

Explores theories of argumentation. Students will develop skills of inquiry and advocacy through oral and written discourse, including critical analysis and rules of evidence. Students will also practice planning, constructing and delivering persuasive arguments in a variety of extemporaneous formats. Through this course, students will learn how to more effectively influence others as well as raise their awareness of others trying to influence them.

Credits: 3 Lecture: 3

SP 115 - INTRODUCTION TO INTERCULTURAL COMMUNICATION

Explores the influence of cultural differences in communication styles and social values and their impact on work, family, legal and economic systems.

Credits: 4 Lecture: 4

SP 188 - SPECIAL STUDIES: SPEECH

Explores topics of current interest in the discipline.

Credits: 1 to 3

SP 199 - SELECTED TOPICS: SPEECH

This course is in development.

Credits: 1 to 3

SP 218 - INTERPERSONAL COMMUNICATION

Promotes enhanced personal and work relationships by presenting the theoretical concepts and practical skills used in effective one-to-one communication.

Credits: 3 Lecture: 3

SP 219 - SMALL GROUP COMMUNICATION

Provides theory and practice in teamwork, leadership and conflict management through participation in small group situations. The emphasis will be on task-oriented, decision-making groups.

Credits: 4 Lecture: 4

SP 220 - GENDER COMMUNICATION

Introduces students to the differences between masculine and feminine communication styles and gives them the tools to manage those differences. Also reviews how communication is used to create, structure and maintain gender identities in a variety of contexts.

Credits: 3 Lecture: 3

SP 230 - INTRODUCTION TO THE RHETORIC OF FILM

Introduces students to the visual and aural languages of moving pictures (film and video) and gives them the tools necessary to analyze the social impact of both overt persuasion (in propaganda and commercials)

and covert persuasion (in entertainment). Films that manage audience perceptions of race, class, gender, religion and the environment will be discussed. Recommended preparation: WR 121.

Credits: 3 Lecture: 3

SP 234 - INTRODUCTION TO VISUAL RHETORIC

Analyzes the power of visual communication and persuasion, including composition, color and content, and how such concepts produce both overt and covert influence on the ideas, attitudes and behaviors of others. Recommended preparation: WR 121.

Credits: 3 Lecture: 3

SP 241 - MEDIA, COMMUNICATION, SOCIETY

Analyzes the social and cultural impact of media, including broadcast, print, film and digital communication. Also examines careers and entrepreneurship in selected areas of media. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

SP 242 - INTRODUCTION TO AUDIO BROADCASTING AND PODCASTING

Learn audio production for broadcast or podcast. Create original PSAs and news-stories while developing on-air and pre-recorded audio delivery techniques.

Credits: 4 Lecture: 4

SP 250 - LISTENING

Gives students a deeper understanding of and more practical skills in listening to increase understanding and to help others.

Credits: 1 Lecture: 1

SP 251 - EMOTIONAL INTELLIGENCE

Gives students a basic understanding of the biological roots of emotion and the skills needed for the appropriate management and sharing of their feelings. This one-credit course is currently available on request.

Credits: 1 Lecture: 1

SP 252 - TEAM SKILLS

Gives students an understanding of the systems nature of small groups and gives them the skills needed to manage decision-making, leadership and the communication climate of the team setting.

Credits: 1 Lecture: 1

SP 253 - CONFLICT MANAGEMENT

Gives students an understanding of conflict management and the skills needed to become more successful in the conflict situation.

Credits: 1 Lecture: 1

SP 254 - FREE EXPRESSION AND PUBLIC ASSEMBLY

Learn and practice civic rights and responsibilities under Federal and State laws pertaining to free expression and public demonstrations.

Credits: 1 Lecture: 1

SP 270 - COMMUNICATING LOVE

Provides an overview of the bio-psychological roots of romantic/erotic love, a critique of media images of love and offers practical training in communication skills that maintain and enhance long-term love relationships. Recommended preparation: WR 121.

Credits: 3 Lecture: 3

SP 280 - CO-OP WORK EXPERIENCE SPEECH INTERNSHIP

Provides experience in which students apply previous classroom learning in an occupational setting. Credits depend on the number of hours worked. P/NP grading. Instructor approval required.

Credits: 1 to 3

SP 298 - INDEPENDENT STUDY: SPEECH

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

SP 299 - SELECTED TOPICS: SPEECH

Explores an area of communication not included in the regular curriculum. Possible topics include gender communication, media issues and relational communication.

Credits: 1 to 3

STRUCTURAL FIRE SCIENCE

SFS 101 - INTRODUCTION TO EMERGENCY SERVICES

Provides an overview to fire protection and EMS, career opportunities, related fields, philosophy and history, organization and function of public and private agencies, nomenclature, functions. In addition, provides new students a broad overview of college and life success strategies as related to this field.

Credits: 4 Lecture: 4

SFS 102 - FIRE SERVICE SAFETY AND SURVIVAL

This course broadens the scope of the national firefighter life-safety initiatives and emphasizes their importance to firefighters and on up the ranks through management levels. It is designed to create a positive attitude toward firefighter safety, to have the student recognize how serious the firefighter injury and death problem is, to recognize their responsibility for reducing future injuries and deaths, to provide information for improving safety considerations and to demonstrate that most firefighter injuries and deaths are preventable.

Credits: 3 Lecture: 3

SFS 105 - FIRE BEHAVIOR AND COMBUSTION I

Explores the theories and fundamentals of how and why fires start, spread and how they are controlled. Department approval required. Prerequisite with concurring: GS 105 or CH 104 or higher.

Credits: 3 Lecture: 3

SFS 110 - BUILDING CONSTRUCTION FOR FIRE PERSONNEL

Studies building construction with emphasis on how buildings fail when subjected to fire. Case studies used to illustrate points. Studies of roof and wall construction enable the student to predict failure points and adapt fire fighting strategies accordingly. Buildings under construction and those subjected to external forces will also be studied. Field trips take students into the community to study various construction techniques. Recommended preparation: SFS 101, SFS 102.

Credits: 3 Lecture: 3

SFS 112 - PUBLIC EDUCATION AND FIRE PREVENTION

Studies fundamentals of public relations pertaining to fire service including emergency operations, general public appearances, writing news releases, articles and speeches and general media contact. Students work in developing an effective public education campaign for delivery. Audience type and message content is carefully analyzed. Recommended to be taken with SFS 101, SFS 102, WR 121.

Credits: 3 Lecture: 3

SFS 120 - FIXED SYSTEMS AND EXTINGUISHERS

Studies portable and fixed extinguisher equipment, fire alarm and detection systems, sprinkler systems and standpipes, and special hazard protection systems. Covers extinguishing agents, system design and maintenance procedures. Field exercises expose students to systems discussed in class. Recommended preparation: SFS 101, SFS 102.

Credits: 3 Lecture: 3

SFS 121 - FIRE LAW

Introduces the modern legal system with emphasis on cases related to fire service. Case law is studied to understand underlying concepts. Reviews case law affecting modern fire service agencies. Explores laws relating to medical treatment of patients, fire protection, codes, emergency response and department activities on the fire ground. Recommended preparation: SFS 101, SFS 102.

Credits: 1 Lecture: 1

SFS 122 - FIRE DEPARTMENT BUDGET

Outlines the budget process as required by Oregon laws to include types of budgets, the process of preparing the budget and classifying expenditures.

Credits: 1 Lecture: 1

SFS 123 - HAZMAT AWARENESS & OPERATIONS

Designed to prepare individuals to safely respond to hazardous materials emergencies. Individuals will learn to analyze an incident, detect the presence of hazardous materials, survey the scene, collect hazard information from the DOT Emergency Response Guidebook, implement actions consistent with standard operating procedures, initiate protective actions and initiate the notification process. Students complete all training and education requirements for Hazardous Materials Awareness and Operations level certification, per National Fire Protection Association (NFPA) Standard 472 and State certification requirements per Oregon Department of Public Safety Standards and Training (DPSST).

Credits: 3 Lecture: 2 Other: 2

SFS 133 - FIRE ENTRY EXAMS

Introduces and prepares student for employment testing in a structural fire agency, beneficial for both initial employment testing and promotional examinations within their agency. Exposure to testing in a variety of methods currently in use in the fire service hiring processes, offers strategies for improving test performance as well as job search skills.

Credits: 3 Lecture: 3

SFS 188 - SPECIAL STUDIES: STRUCTURAL FIRE SCIENCE

Explores topics of current interest in the discipline.

Credits: 1 to 4

SFS 199 - SELECTED TOPICS: STRUCTURAL FIRE SCIENCE

This course is in development.

Credits: 1 to 4

SFS 205 - FIRE BEHAVIOR AND COMBUSTION II

Builds on the foundational knowledge and skills objectives developed in SFS 105 and Firefighter I academy. Due to safety and OSHA requirements, students must be affiliated with a fire department and have passed within the previous year an SCBA Fit test. This course is designed for second year students to be taken the year of graduation. Department approval required. Required prior to registration: Firefighter I Academy. Prerequisite: SFS 105.

Credits: 3 Lecture: 2 Lab: 3

SFS 210 - FIRE INVESTIGATION

Provides basic information in fire cause determination. Studies arson detection, protection of point of origin, fire indicators, motives and vehicle fire investigation. Field trips and classroom props aid the student in understanding the science of fire investigation. Department approval required. Recommended preparation: SFS 101, SFS 102.

Credits: 3 Lecture: 3

SFS 212 - FIRE CODES AND ORDINANCES

Introduces the International Fire and Building Code (IFC) and laws promulgated by the Office of the State Fire Marshal relating to fire safety and prevention. Includes overview of administrative provisions and many of the applicable standards in the codes. Students apply the codes to specific situations to illustrate understanding and application of the codes and related laws. Students also identify applicable sections of the codes in response to scenarios presented in the classroom or in the field. Recommended preparation: SFS 101, SFS 102.

Credits: 3 Lecture: 3

SFS 230 - RESCUE PRACTICES

Explores techniques and applications of specialized rescue practices in modern fire service. Focuses on vehicle rescue, steep-angle rescue and swift-water rescue with basic overviews of ice rescue, electrical rescue and trench rescue techniques. Using modern tools and techniques, students apply classroom learning in several comprehensive and dynamic field exercises. Emergency Medical Technician - Basic training allows

Course Descriptions

students to integrate fire and EMS activities at an emergency rescue scene. Department approval required. Recommended to be taken with SFS 101, SFS 102.

Credits: 3 Lecture: 2 Lab: 3

SFS 232 - FIRE PROTECTION HYDRAULICS AND WATER SUPPLY

This course provides a foundation of theoretical knowledge in conjunction with hands-on labs in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems. Department approval required. Recommended preparation: MTH 065 or higher, GS 104, GS 105, SFS 105 and access to engines or affiliation are highly recommended for students' success in the class.

Credits: 4 Lecture: 3 Lab: 3

SFS 263 - HUMAN BEHAVIOR IN FIRE

Provides fundamental information on human behavior as it relates to fire and mass casualties. Understanding human behavior is important as it relates to building design, evacuation and fire department operations. It is especially important where populations are large or include the disabled or persons having limited mobility. Prerequisites: SFS 101, SFS 102, SFS 110, SFS 112, SFS 120, MTH 060 or higher or placement into MTH 065.

Credits: 3 Lecture: 3

SFS 275 - CAPSTONE: TACTICS AND STRATEGIES

Provides a capstone experience to the Structural Fire AAS program with an in-depth analysis of the principles of fire control through the utilization of personnel, equipment, and extinguishing agents on the fire ground. Taken in the final term prior to program completion. Department approval required.

Credits: 3 Lecture: 2 Other: 2

SFS 288 - SPECIAL STUDIES: STRUCTURAL FIRE SCIENCE

Explores topics of current interest in the discipline.

Credits: 1 to 3

SFS 299 - SELECTED TOPICS: STRUCTURAL FIRE SCIENCE

This course is in development.

Credits: 1 to 4

THEATER ARTS

TA 101 - INTRODUCTION TO THEATRE

Credits: 3 Lecture: 3

TA 141 - ACTING I

Acquaints students with fundamental principles of acting. In-class performance of memorized material required. Grading based primarily on in-class participation. Attendance is mandatory.

Credits: 3 Lecture: 3

TA 142 - ACTING II

Emphasizes in-depth character study and textual analysis through preparation of scenes from modern American plays. Attendance is mandatory. Repeatable for credit. Recommended preparation: TA 141.

Credits: 3 Lecture: 3

TA 143 - ACTING III

Further in-depth character study and scene work. Attendance is mandatory. Repeatable for credit. Recommended preparation: TA 141, TA 142.

Credits: 3 Lecture: 3

TA 153 - REHEARSAL/PERFORMANCE

Practical application of classroom theory through participation in Magic Circle Theatre and Magic Circle Dance Theatre productions. Credit can be earned in three areas: dance, technical theater and acting. Required prior to registration: instructor approval through audition or interview.

Credits: 1 to 3

TA 188 - SPECIAL STUDIES: THEATER

Explores topics of current interest in the discipline.

Credits: 1 to 3

TA 200 - INTRODUCTION TO THEATER

Introduces student to the world of theater. Combines overview of historical facts and theory with contemporary practice. Explores career options in theatrical production.

Credits: 3 Lecture: 3

TA 207 - READINGS IN THEATER

Offers a study of selected plays, loosely grouped by country of origin, theme, era or playwrights. Emphasis placed on texts in performance rather than on literary analysis. Repeatable for credit.

Credits: 3 Lecture: 3

TA 280 - CO-OP WORK EXPERIENCE THEATER

Provides experience in which students apply previous classroom learning in an occupational setting. Credits depend on the number of hours worked. P/NP grading. Instructor approval required.

Credits: 1 to 3

TA 298 - INDEPENDENT STUDY: THEATER ART

Individualized, advanced study to focus on outcomes not addressed in existing courses or of special interest to a student. Recommended preparation: prior coursework in the discipline. Instructor approval required.

Credits: 1 to 4

VETERINARY TECHNICIAN

VT 101 - INTRODUCTION TO VETERINARY TECHNICIAN

Introduces the role of the veterinary technician within the veterinary health care team, career opportunities for veterinary technicians, the history of veterinary medicine, ethics, common small animal breeds and effective communication techniques within the veterinary teams and with clientele. Prerequisites: BI 101 or BI 211, GS 105 or CH 104, MTH 095, 111 or higher, SP 218, WR 121. Corequisites: VT 102, VT 103, VT 117.

Credits: 3 Lecture: 3

VT 102 - VETERINARY TERMINOLOGY

Introduces veterinary medical terminology, including medical word parts, common medical terms, and a basic knowledge of word construction. Corequisites: VT 101, VT 103, VT 117.

Credits: 3 Lecture: 3

VT 103 - ANIMAL HOSPITAL AND OFFICE PROCEDURES

Introduces veterinary medical records, admitting procedures and record maintenance. Covers basic bookkeeping skills, inventory control measures, marketing and the use of computer software specifically designed for use in a veterinary hospital. Corequisites: VT 101, VT 102, VT 117.

Credits: 2 Lecture: 2.4

VT 108 - SMALL ANIMAL NURSING

Introduces basic techniques necessary for the provision of nursing care to small animals, including small animal restraint, husbandry, behavior, physical examination, medication administration and grooming. Includes kennel duty experience in the care of a variety of companion animals. Prerequisites: VT 101, VT 102, VT 103, VT 117 with a grade of "C" or better. Corequisites: VT 110, VT 114, VT 118.

Credits: 4 Lecture: 3 Lab: 3

VT 110 - PARASITOLOGY AND PATHOLOGY

Explores the life cycles, modes of transmission and diseases associated with common parasites of animals. Lab introduces diagnostic procedures and covers identification of parasites using prepared slides and collected specimens. Prerequisites: VT 101, VT 102, VT 103, VT 117 with a grade of "C"or better. Corequisites: VT 108, VT 114, VT 118.

Credits: 4 Lecture: 3 Lab: 3

VT 111 - HEMATOLOGY AND URINALYSIS

Covers laboratory techniques of hematology, serum chemistry and urinalysis. Also explores special commercial laboratory test procedures. Prerequisites: VT 108, VT 110, VT 114, VT 118 with a grade of "C"or better. Corequisites: VT 112, VT 113, VT 116.

Credits: 5 Lecture: 4 Lab: 3.6

VT 112 - ADVANCED SMALL ANIMAL NURSING

Covers advanced nursing techniques including parenteral administration of medication, bandaging and wound care, cardiopulmonary resuscitation (CPR), physical rehabilitation, diagnostic sample collection and vaccination of small animals. Prerequisites: VT 108, VT 110, VT 114, VT 118 with a grade of "C" or better. Corequisites: VT 111, VT 113, VT 116.

Credits: 4 Lecture: 3 Lab: 3

VT 113 - EXOTIC AND LAB ANIMAL MEDICINE

Provides an overview of the anatomy and physiology, the care and handling, and diseases of common laboratory and exotic small animals. Covers the principles of lab animal use in research with an emphasis on animal welfare. Prerequisites: VT 108, VT 110, VT 114, VT 118 with a greade of "C" or better. Corequisites: VT 111, VT 112, VT 116.

Credits: 3 Lecture: 2 Lab: 3

VT 114 - PHARMACEUTICAL MATH

Covers pharmacological mathematics, including drug dosage calculations and fluid calculations. Introduces prescription terminology and labeling. Prerequisites: VT 101, VT 102, VT 103, VT 117 with a grade of "C" or better. Corequisites: VT 108, VT 110, VT 118.

Credits: 3 Lecture: 3

VT 116 - PHARMACOLOGY

Explores pharmacological principles, including classes, mechanisms and side effects of drugs used in veterinary medicine. Prerequisites: VT 108, VT 110, VT 114 and VT 118 with a grade of "C" or better. Corequisites: VT 111, VT 112, VT 113.

Credits: 4 Lecture: 4

VT 117 - VETERINARY ANATOMY & PHYSIOLOGY I

This is the first of two courses covering the structure and function of animal bodies and the anatomical and physiological differences between selected species. Examines body organization, cellular biology, histology and gross anatomy and physiology of the integumentary, skeletal, muscular and nervous systems. Concurrent labs include the use of skeletons, models, virtual anatomy tools and dissection of cadavers. Corequisites: VT 101, VT 102, VT 103.

Credits: 6 Lecture: 4 Lab: 6

VT 118 - VETERINARY ANATOMY & PHYSIOLOGY II

This is the second of two courses covering the structure and function of animal bodies and the anatomical and physiological differences between domestic species. Continues the study of the interrelationship of organ systems, including the endocrine, reproductive, cardiovascular, lymphatic, digestive, respiratory and urinary systems. Prerequisites: VT 101, VT 102, VT 103, VT 117 with a grade of "C" or better. Corequisites: VT 108, VT 110, VT 114.

Credits: 5 Lecture: 4 Lab: 3

VT 188 - SPECIAL STUDIES: VETERINARY TECHNICIAN

Special studies for veterinary technician.

Credits: 1 to 4

VT 200 - RADIATION SAFETY

Covers the physics of x-ray photon production, radiation safety, quality control measures, federal and state radiation regulations, film processing, radiographic technique evaluation, positioning of animals and proper identification and storage of radiographic images. Prerequisites: VT 111, VT 112, VT 113, VT 116 with a grade of "C" or better. Corequisites: VT 201, VT 203, VT 208, VT 212.

Credits: 2 Lecture: 2

VT 201 - ANESTHESIOLOGY AND SURGERY TECHNIQUES

Covers the principles and practices of veterinary anesthesia and surgical assistance. Prerequisites: VT 111, VT 112, VT 113, VT 116 with a grade of "C" or better. Corequisites: VT 200, VT 203, VT 208, VT 212.

Credits: 4 Lecture: 3 Lab: 3

VT 202 - SURGICAL NURSING AND DENTISTRY

Covers common dental problems and dental prophylaxis. Explores pre-operative, operative and post-operative protocols for routine surgical procedures. Provides hands-on experience in anesthesiology, surgical patient preparation, surgical assistance and dentistry. Prerequisites: VT 200, VT 201, VT 203, VT 208, and VT 212 with a grade of "C" or better. Corequisites: VT 204, VT 206, VT 209.

Credits: 4 Lecture: 2 Lab: 6

VT 203 - LARGE ANIMAL NURSING

Covers common large animal breeds (ruminant, equine, swine, and chickens). Introduces techniques necessary for the provision of nursing care to large animals, including restraint, husbandry, behavior, physical examination, medication administration, diagnostic sample collection, grooming, bandaging, nutrition and vaccination. Includes animal husbandry experience in the care of large animals. Prerequisites: VT 111, VT 112, VT 113, VT 116 with a grade of "C" or better. Corequisites: VT 200, VT 201, VT 208, VT 212.

Credits: 4 Lecture: 3 Lab: 3

VT 204 - DIAGNOSTIC IMAGING

Covers the operation and use of fixed, portable and dental x-ray machines; the care and development of films; radiographic positioning of animals; and evaluation of radiographic technique. Explores additional diagnostic imaging modalities, such as ultrasound, MRI, CT and endoscopy. Prerequisites: VT 200, VT 201, VT 203, VT 208, VT 212 with a grade of "C" or better. Corequisites: VT 202, VT 206, VT 209.

Credits: 3 Lecture: 2 Lab: 3

VT 206 - SMALL ANIMAL DISEASES

Covers preventative medicine and diseases of small animals including the public health significance of relevant small animal diseases. Examines the role of the veterinary technician in performing diagnostics, nursing care and client education. Prerequisites: VT 200, VT 201, VT 203, VT 208, VT 212 with a grade of "C" or better. Corequisites: VT 202, VT 204, VT 209.

Credits: 4 Lecture: 4

VT 208 - ANIMAL NUTRITION

Covers the basic principles of nutrition, the development of nutrition protocols based on the life stage and health status of the patient and explores special prescription diets used in veterinary medicine. Prerequisites: VT 111, VT 112, VT 113, VT 116 with a grade of "C" or better. Corequisites: VT 200, VT 201, VT 203, VT 212.

Credits: 2 Lecture: 2

VT 209 - LARGE ANIMAL DISEASES

Covers preventative medicine and diseases of large animals including the public health significance of relevant large animal diseases. Examines the role of the veterinary technician in performing diagnostics, nursing care and client education. Prerequisites: VT 200, VT 201, VT 203, VT 208, VT 212 with a grade of "C" or better. Corequisites: VT 202, VT 204, VT 206.

Credits: 3 Lecture: 3

VT 212 - VETERINARY MICROBIOLOGY

Explores clinical microbiology and cytology as it relates to veterinary technology. Covers the basic principles of microbial classification, growth and pathogenicity as well as various laboratory methods used in identification of microorganisms. Prerequisites: VT 111, VT 112, VT 113, VT 116 with a grade of "C" or better. Corequisites: VT 200, VT 201, VT 203, VT 208.

Credits: 4 Lecture: 3 Lab: 3

VT 280 - CLINICAL PRACTICUM I

Provides hands-on experience working with actual animal cases in a clinical veterinary setting. Links prior coursework with off-campus learning experiences providing development of increased proficiency of essential

skills necessary for a career as a veterinary technician. In this first practicum course, students are matched to two different practicum sites, each for a three-week period. Each student is expected to attend 120 total hours for each three-week period at a clinical site. Prerequisites: VT 202, VT 204, VT 206, VT 209 with a grade of "C" or better. Corequisites: VT 281.

Credits: 6 Other: 21.6

VT 281 - CLINICAL PRACTICUM II

Provides hands-on experience working with actual animal cases in a clinical veterinary setting. Links prior coursework with off-campus learning experiences providing development of increased proficiency of essential skills necessary for a career as a veterinary technician. In this second practicum course, students will be matched to a practicum site for a three-week period. Each student is expected to attend 120 total hours for the three-week period at the clinical site. Reflection upon the practicum experiences will occur during the final week of the course. Prerequisites: VT 202, VT 204, VT 206, VT 209 with a grade of "C" or better.

Credits: 4 Other: 14.4

VT 288 - SPECIAL STUDIES VETERINARY TECHNICIAN

Special studies for veterinary technician.

Credits: 4

VT 299 - SPECIAL TOPICS VETERINARY TECHNICIAN

Special topics for veterinary technician.

Credits: 4 Lecture: 4 Lab: 12 Other: 8

WILDLAND FIRE

WF 101 - FIREFIGHTER TYPE II TRAINING

The purpose of this course is to train new firefighters in basic firefighting skills and the basic fire behavior factors that will aid them in the safe and effective control of wildland fires. Students will receive NWCG certification in S-130, S-190, L-180 and S-133.

Credits: 3 Other: 6

WF 103 - SAFETY FOR SURVIVAL

Provides the fundamentals and technical knowledge needed for fire line safety as it pertains to: entrapment avoidance, fire shelter deployment, hazards, injuries and safety issues, mental and physical health, fitness and current issues. Meets the NWCG requirement for RT-130.

Credits: 3 Lecture: 3

WF 111 - TACTICAL DECISION SIMULATIONS

The course uses classroom and simulations to focus on the fire environment and the indicators fireline personnel should recognize in order to anticipate or predict problem fire behavior during fireline operations while utilizing lookouts, communications, escape routes and safety zones. Upon completion of the course and given a Fireline Handbook, Incident Response Pocket Guide (IRPG) and specific problem situations related to fire assignments, student will be provided with the knowledge and practice in decision making necessary to effectively apply tactical decision making in wildland fire.

Credits: 2 Lecture: 1 Other: 2

WF 131 - S-131, FIREFIGHTER TYPE I

Firefighter Type 1, S-131, is designed to meet the training needs of the Firefighter Type 1 (FFT1). This course is designed to be interactive in nature. It contains several tactical decision games designed to facilitate learning the objectives and class discussion. Topics include fireline reference materials, communications and tactical decision making. Recommended preparation: WF 100, WF 101.

Credits: 2 Lecture: 2

WF 134 - S-134 LOOKOUTS, COMMUNICATION, ESCAPE ROUTES, SAFETY ZONES

Students become engaged in the process of designing their own safety program. The small group exercises will discuss and develop the L, C, E, S, creating a list of performance standards. The entire class will then

work together to produce and edit a contract, based on consensus, which quides performance.

Credits: 2 Lecture: 2

WF 188 - SPECIAL STUDIES: WILDLAND FIRE Explores topics of current interest in the discipline.

Credits: 1 to 4

WF 199 - SELECTED TOPICS: WILDLAND FIRE

This course is in development.

Credits: 4

WF 200 - S-200 INITIAL ATTACK INCIDENT COMMAND

Designed to meet the training needs of the ICT4. Presented in a lecture/ discussion format and supplemented with group exercises. The six instructional units cover: readiness and mobilization, size up, planning and ordering, deployment and containment, administrative requirements and post-fire evaluation.

Credits: 2 Lecture: 2

WF 201 - NFPA INSTRUCTOR 1

NFPA Instructor 1 is an intensive, instructional methodology program. It addresses the job performance requirement of the National Fire Protection Agency, 1041 Standard for Fire Service Instructor Professional Qualifications and the National Wildfire Coordinating Group. The course prepares students for planning instruction, using a variety of instructional methods, teaching diverse learners and evaluating course outcomes. The course also provides guidelines for addressing the critical issues of safety and the legal issues of training, and it provides opportunities for participants to participate in application activities.

Credits: 3 Lecture: 3

WF 203 - S-203 INTRODUCTION TO INCIDENT INFORMATION

Provides students with the knowledge and skills they need to serve as public information officers (PIOF). Touches on virtually all aspects of establishing and maintaining an incident information operation, from communicating with internal and external audiences to handling special situations. Format of the course is lecture and exercises with a final simulation.

Credits: 3 Lecture: 3

WF 210 - FI-210 WILDFIRE ORIGIN/CAUSE

The primary purpose of this course is to provide a consistent knowledge and skill base for the wildland fire origin and cause determination investigator (INVF). The concepts taught in this course will help an INVF perform at an acceptable level on a national basis without regard to geographic boundaries. The course is presented by lectures, electronic presentations, field exercises and class discussion.

Credits: 3 Lecture: 3

WF 211 - S-211 PORTABLE PUMPS

This is an instructor-led course intended to be presented at the local level. The course consists of three skill areas: supply, delivery and application of water. Students will be required to demonstrate their knowledge of correct water use, basic hydraulics and equipment care. The field exercise requires set up, operation and maintenance of pump equipment. To receive credit for this course, students must have field work observed and approved, and take a closed-book written final examination. Recommended preparation: WF 100, WF 101.

Credits: 2 Lecture: 2

WF 215 - S-215 FIRE OPERATIONS IN THE URBAN INTERFACE

This course is designed to assist structure and wildland firefighters who will be making tactical decisions when confronting wildland fire that threatens life, property and improvements, in the wildland/urban interface. Instructional units include interface awareness, size-up, initial strategy and incident action plan, structure triage, structure protection tactics, incident action plan assessment and update, follow-up and public relations, and firefighter safety in the interface. Recommended preparation: WF 100, WF 101.

Credits: 3 Lecture: 3

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WF 219 - S-219 FIRE OPERATIONS

The course introduces the roles and responsibilities of a firing boss (FIRB) and outlines duties of other personnel who may engage firing operations. The course discusses and illustrates common firing devices and techniques. Although comprehensive in nature, the course work is not a substitute for the dynamic fire environment. Department approval required.

Credits: 2 Lecture: 2

WF 230 - S-230 CREW BOSS

Designed to produce student proficiency in the performance of duties associated with the single resource boss position from initial dispatch through demobilization to the home unit. Topics include: operational leadership, preparation and mobilization, assignment preparation, risk management, entrapment avoidance, safety and tactics, offline duties, demobilization and post incident responsibilities.

Credits: 3 Lecture: 3

WF 231 - S-231 ENGINE BOSS

Skill course designed to produce student proficiency in the performance of all duties associated with the single resource engine boss. Topics include tactical use and safety precautions required to establish an effective engine operation on a large incident.

Credits: 1 Lecture: 1

WF 236 - S-236 HEAVY EQUIPMENT BOSS

This is a skill course designed to meet the training needs of a Heavy Equipment Boss on an incident as outlined in the PMS 310-1 and the Position Task Book developed for the position. Primary considerations are tactical use and safety precautions required to establish and maintain an effective dozer operation. Department approval required.

Credits: 2 Lecture: 2

WF 244 - S-244 FIELD OBSERVER

Provides students with the necessary skills to perform as a field observer (FOBS) and/or a prescribed fire effects monitor (FEMO). Topics include: identifying and interpreting maps, making map calculations, using observation aids and instruments, performing field observations and communicating information. There will be a day-long field trip.

Credits: 2 Lecture: 2

WF 248 - S-248 STATUS/CHECK-IN RECORDER

This course is designed to introduce students to the tools and techniques used to perform the duties of a status check-in recorder (SCKN). The course provides an overview of what a student can expect if dispatched to an incident. Department approval required.

Credits: 2 Lecture: 2

WF 261 - S-261 APPLIED INTERAGENCY INCIDENT BUSINESS MANAGEMENT

This course is designed to provide the prerequisite skills/knowledge necessary to perform the tasks of the entry-level finance positions, i.e., commissary manager, personnel time recorder, equipment time recorder, compensation for injury specialist and claims specialist, in the Incident Command System (ICS). It is designed to be taken after completion of Interagency Incident Business Management (S-260).

Credits: 2 Lecture: 2

WF 270 - S-270 BASIC AIR OPERATIONS

Covers aircraft types and capabilities, aviation management and safety, tactical and logistical uses of aircraft, and requirements for helicopter take-off and landing areas. Recommended preparation: WF 131, WF 134.

Credits: 2 Lecture: 2

WF 281 - L-280 FOLLOWERSHIP/LEADERSHIP

Training course designed as a self-assessment opportunity for individuals preparing to step into a leadership role. There is one day of classroom instruction followed by a day in the field with small teams of students working through a series of problem-solving events (Field Leadership Assessment Course). Topic areas include: leadership values and principles, transition challenges for new leaders, situational leadership, team cohesion factors and ethical decision making.

Credits: 2 Lecture: 2

WF 286 - PACIFIC NORTHWEST ENGINE ACADEMY

Students attending the Pacific Northwest Engine Academy will receive training utilizing a variety of methods and techniques, which will provide information about water handling and will improve engine operation skills. These skills are applicable to both fuels management and fire suppression activities. The student will be instructed using ICS terminology.

Credits: 3 Lecture: 2 Lab: 3

WF 288 - SPECIAL STUDIES: WILDLAND FIRE

Explores topics of current interest in the discipline.

Credits: 1 to 4

WF 290 - S-290 INTERMEDIATE WILDFIRE BEHAVIOR

This is a classroom-based skills course designed to prepare the prospective fireline supervisor to undertake safe and effective fire management operations. It is the second course in a series that collectively serves to develop fire behavior prediction knowledge and skills. Fire environment differences are discussed as necessary; instructor should stress local conditions. Recommended preparation: WF 131, WF 134, WF 260.

Credits: 3 Lecture: 3

WF 293 - RX-340 (RX-310) FIRE EFFECTS

Provides the student with the knowledge and skills to recognize basic fire regimes, the results of fire treatment on first order fire and fire effects, and to manipulate fire treatments to achieve desired first order fire effects.

Credits: 3 Lecture: 3

WF 294 - S-300 IC EXTENDED ATTACK

Meets the training needs of the incident commander, type 3 (ICT3). Presented in a lecture/discussion format and supplemented with group exercises. There are six instructional units that cover information gathering, planning, supporting organization, operations, transitioning, and demobilization/administrative requirement.

Credits: 2 Lecture: 2

WF 295 - S-330 TASK FORCE/STRIKE TEAM LEADER

Prepares the student to perform in the role of task force leader (TFLD) or any strike team leader. Examples and exercises are specific to wildland fire suppression. If the student is expected to perform in another risk area, applicable examples and exercises area will be added.

Credits: 3 Lecture: 3

WF 297 - S-339 DIVISION GROUP SUPERVISOR

Prepares student to perform in the role of division/group supervisor. Provides instruction in support of the specific tasks of division/group supervisor, but will not instruct the student in general management/supervision or in the incident command system (ICS). Topics include: division/group management, organizational interaction and division operations.

Credits: 2 Lecture: 2

WF 298 - S-390 FIRE BEHAVIOR CALCULATION

This is an NWCG (National Wildfire Coordinating Group) certified course. This course is designed to introduce fire behavior calculations by manual methods, using nomograms and the Fire Behavior Handbook Apendix B. Students gain an understanding of the determinants of fire behavior through studying Inputs (weather, slope, fuels and fuel moisture). Students also learn how to interpret fire behavior outputs, documentation processes, and fire behavior briefing components. Department approval required.

Credits: 3 Lecture: 3.2

WF 299 - SELECTED TOPICS: WILDLAND FIRE

This course is in development.

Credits: 1 to 4

WOMEN'S STUDIES

WS 101 - INTRODUCTION TO WOMEN'S AND GENDER STUDIES

Explores the impact of women's and gender studies in many academic fields. Examines women's status and achievements, and the issues raised for men and women by feminism and the women's movement. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

WRITING

WR 060 - RHETORIC AND CRITICAL THINKING I

First course in a two-course series of instruction in developmental writing and reading. The writing process is examined from invention to final draft; reading instruction includes vocabulary development, distinguishing between ideas and evidence, and summarizing. Students read, analyze and evaluate texts of varying lengths that show each stage of the process. The course focuses on expository essays. Recommended preparation: placement test scores that place the student in WR 060.

Credits: 4 Lecture: 4

WR 065 - RHETORIC AND CRITICAL THINKING II

Second course in a two-course series of instruction in developmental writing and reading. Students will study one long text and shorter selections from varying points of view representing the three major academic disciplines of humanities, science, and social science. Mirroring the reading and writing skills used in college, students read and write about the primary ways of thinking across the disciplines. Recommended preparation: placement test scores that place the student in WR 065, or a grade of "C" or better in WR 060.

Credits: 4 Lecture: 4

WR 095 - BASIC WRITING II

Provides instruction and practice in basic essay structures and development. Students learn effective options for introductions, transitions, body paragraphs and conclusions. Includes brief review of sentence mechanics and paragraphing principles within the context of student's own writing. Also provides practice and instruction in the writing process, including peer review and analysis. WR 095 is an optional course in the developmental writing sequence for students who need or want additional preparation for WR 121. This course is not suitable for students who place into WR 060 or WR 065. Recommended preparation: placement test scores that place a student in WR 121, or a grade of "C" or better in WR 065.

Credits: 3 Lecture: 3

WR 099 - SELECTED TOPICS: WRITING

This course is in development.

Credits: 1 to 4

WR 121 - ACADEMIC COMPOSITION

WR 121 focuses on rhetorical reading, thinking and writing as a means of inquiry. Students will gain fluency with key rhetorical concepts and utilize these in a flexible and collaborative writing process, reflecting on their writing process with the goal of developing metacognitive awareness. They will employ conventions, including formal citations, appropriate for a given writing task, attending to the constraints of audience, purpose, genre and discourse community. Students will compose in two or more genres. Prerequisite: WR 065 or WR 095 or a placement test score placing student in WR 121.

Credits: 4 Lecture: 4

WR 122 - ARGUMENT, RESEARCH AND MULTIMODAL COMPOSITION

WR 122 continues the focus of WR 121 in its review of rhetorical concepts and vocabulary, in the development of reading, thinking and writing skills, along with metacognitive competencies understood through the lens of a rhetorical vocabulary. Specifically, students will identify, evaluate and construct chains of reasoning, a process that includes an

ability to distinguish assertion from evidence, recognize and evaluate assumptions, and select sources appropriate for a rhetorical task. Students will employ a flexible, collaborative and appropriate composing process, working in multiple genres and utilizing at least two modalities. Prerequisite: WR 121.

Credits: 4 Lecture: 4

WR 170 - DOCUMENTATION

Instruction emphasizes what constitutes plagiarism and how to avoid it by applying college-level documentation practices, using accepted discipline-appropriate academic and professional styles, in research-based writing assignments across the curriculum.

Credits: 1 Lecture: 1

WR 188 - SPECIAL STUDIES: WRITING

Explores topics of current interest in the discipline.

Credits: 1 to 3

WR 199 - SELECTED TOPICS: WRITING

This course is in development.

Credits: 1 to 3

WR 227 - TECHNICAL WRITING

This transfer course emphasizes forms of writing appropriate in the workplace rather than academic essays. This course addresses the following topics: evaluation of audiences, writing situations and sources, document design, research processes, visual aids all contributing to a major research project. Prerequisite: a grade of "C" or better in WR 121.

Credits: 4 Lecture: 4

WR 240 - INTRODUCTION TO CREATIVE WRITING: NONFICTION

Introduces students to writing creative nonfiction, adapting the personal essay to multiple purposes, such as science or nature writing, travel writing, memoir, biography and journalistic essay. Prose craft exercises, critical reading of published authors and responding constructively to other student work are essential learning processes. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

WR 241 - INTRODUCTION TO CREATIVE WRITING: FICTION

Practical study of effective strategies for creating vivid, dramatic stories. Students learn the basic craft of generating conflict and plot, openings that grab the reader, complications that build tension and details that reveal character. Critical reading of published authors, prose craft exercises and responding constructively to other student work are essential learning processes. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

WR 242 - INTRODUCTION TO CREATIVE WRITING: POETRY

Introduces students to the craft of poetry through study of the poetry and notebooks of established writers for writing techniques, forms, styles and work processes and through the writing and submission of approximately one complete poem per week for class discussion and analysis. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

WR 243 - INTRODUCTION TO CREATIVE WRITING: SCRIPTWRITING

Introduces students to dramatic writing for both stage and screen. Essential learning processes in the course include scene and dialogue craft exercises, developing strong characters and viable narrative structures, critical reading of plays, screenplays and/or teleplays and responding constructively to other student work. Recommended preparation: WR 121.

Credits: 4 Lecture: 4

WR 288 - SPECIAL STUDIES: MAGAZINE WRITING

Explores topics of current interest in the discipline.

Credits: 1 to 3

WR 299 - SELECTED TOPICS: WRITING

This course is in development.

Credits: 1 to 4

OSU BACCALAUREATE CORE

This information reflects an accurate picture of OSU requirements at the time of approval, using the OSU catalog, advisors and web resources for consultation. However, degree requirements can and do change. Students can verify transfer information at the OSU website: oregonstate.edu/admissions/main/baccalaureate-core-course-equivalencies-central-oregon-community-college.

BACCALAUREATE CORE		
SKILLS COU	RSES	
Writing I	WR 121	Academic Composition 4
Writing II	WR 122	Argmt, Rsrch & Multimodal Comp 4
	or WR 227	Technical Writing 4
	or WR 214	Business Communication 3
	or WR 240	Intro Creative Writing: Nonfiction 4
	or WR 241	Intro Creative Writing: Fiction 4
	or WR 242	Intro Creative Writing: Poetry 4
	or WR 243	Intro Creative Writing: Scriptwriting 4
Writing III	SP 111	Fundamentals of Public Speaking 3
	or SP 114	Argumentation and Critical Discourse 3
	or SP 115	Intro Intercultural Communication 3
	or SP 218	Interpersonal Communication 3
	or SP 219	Small Group Communication 3
Mathematics	MTH 105	Intro to Contemporary Math 4
	or MTH 111	College Algebra 4
•	or MTH 112	Trigonometry 4
	or MTH 113	Topics in Precalculus 4
	or MTH 211	Fundamentals of Elementary Math I 4
•	or MTH 241	Calculus for Mangt/Social Science 4
•	or MTH 245	Math for Mgmt/Social Science 4
•	or MTH 251	Calculus I 4
Fitness	HHP 295	Health and Fitness 3

PERSPECTIVES COURSES

No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core. GEO courses listed under Physical Science are considered to be from a different department than GEO courses listed under any other Perspective category. Choose one Biological Science lecture/lab combination, one Cultural Diversity, one Literature and the Arts, one Physical Science lecture/lab combination, one Social Processes and Institutions, one Western Culture, one Difference, Power and Discrimination, plus one additional lecture/lab combination from either Physical Science or Biological Science.

Physical Science

CH 104	Intro Chemistry I 5
or CH 105	Intro Chemistry II 5
or CH 106	Intro Chemistry III 5
or CH 221	General Chemistry I 5
or CH 222	General Chemistry II 5
or CH 223	General Chemistry III 5
or FOR 208	Soils: Sustainable Ecosystems 4
or FOR 265	Wood Technology & Utilization 4
or G 148	Volcanoes and Earthquakes 4
or G 201	Geology I 4
or G 202	Geology II 4
or G 203	Geology III 4

or GEOG 265	Geographic Information Systems 4
or GEOG 278	Physical Geography-Landforms, Water 4
or GEOG 279	Physical Geography-Weather & Climate 4
or GS 104	Physical Science: Physics 4
or GS 105	Physical Science: Chemistry 4
or GS 106	Physical Science: Geology 4
or GS 107	Physical Science: Astronomy 4
or GS 108	Physical Science: Oceanography 4
or PH 201	General Physics I 5
or PH 202	General Physics II 5
or PH 203	General Physics III 5
or PH 211	General Physics I 5
or PH 212	General Physics II 5
or PH 213	General Physics III 5
Biological Science	
BI 101	General Biology I 4
or BI 102	General Biology II 4
or BI 103	General Biology III 4
or BI 211	Principles of Biology I 5
or BI 212	Biology of Plants II 5
or BI 213	Biology of Animals III 5
or BI 214	Biochemistry and Genetics 5
or BI234	Microbiology 4
or BOT 203	General Botany 4
or FOR 208	Soils: Sustainable Ecosystems 4

Physical or Biological Science

Choose one additional course from the Physical Science or Biological Science lists above

Western Culture

	uiture
Intro Art History 4	ARH 201
Intro Art History 4	or ARH 202
Intro Art History 4	or ARH 203
Modern Art History 4	or ARH 206
Western World Lit: Ancient	or ENG 107
Western World Lit: Middle Ages 4	or ENG 108
Western World Lit: Modern 4	or ENG 109
Shakespeare 4	or ENG 201
Shakespeare 4	or ENG 202
Survey British Literature 4	or ENG 204
Survey British Literature II 4	or ENG 205
Survey American Literature I 4	or ENG 253
Survey American Literature II 4	or ENG 254
Literature into Film 3	or FA 257
World Regional Geography I 4	or GEOG 201
History of Western Civilization 4	or HST 101
History of Western Civilization 4	or HST 102
History of Western Civilization 4	or HST 103
World History 4	or HST 104
World History 4	or HST 105

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OSU BACCALAUREATE CORE (continued)

or HST 106 or HST 201 or HST 202 or HST 202 or HST 203 United States History 1820-1920 4 or HST 270 or HST 270 Or HUM 106 or PHL 170 or PHL 200 or PHL 201 or PHL 201 or PS 206 Introduction to Political Thought 4 Cultural Diversity ANTH 283 or ARH 207 or HST 106 or HST 107 Or HST 108 Or HST 209 Or HST 209 Or PHL 200 or PS 206 Introduction to Political Thought 4 Cultural Diversity ANTH 283 Or ARH 207 Or HST 208 And Aregional Geography 4 Or HST 104 Or HST 105 Or HST 106 Or HST 207 Or HST 207 Or HST 207 Or HST 207 Or HST 208 Or HST 207 Or HST 207 Or HST 208 Or HST 209 Or HST 209 Or HST 259 Or HST 259 Or HST 290 Or HST 291 Or HST 291 Or HST 292 Or HUM 210 Or HST 292 Or HUM 210 Or HST 291 Or HUM 210 Or HUM 211 Or HUM 213 Or HUM 213 Or HUM 230 Or HUM 230 Or HUM 240 Or HUM 230 Or HUM 240 Or HUM 255 Culture and Literature of Africa 4 Or HUM 213 Or HUM 230 Or ARH 203 Or ARH 204 Or HST 205 Or HUM 210 Or HUM 240 Or HUM 250 Or HUM 250 Or ARH 200 Or ARH 200 Or ARH 201 Or ARH 202 Or ARH 203 Or ARH 206 Or ARH 207 Or ARH 207 Or ART 101 Intro Ot Literature of Arica 4 Or HUR 100 Or ARH 207 Or ART 101 Intro to Literature: Fiction 4	<u> </u>	701	SALAGREATE CO
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or ENG 104 Intro to Literature: Fiction 4			,
	or EN	NG 104	
	or EN	NG 105	Intro to Literature: Drama 4

or ENG 106

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or ENG 232C

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260 Intro Women Writ	ters 4
01 Introduction to F	ilm 3
25 World Cine	ma 4
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230 Immigrant Experience American	Lit 4
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256 Intro to African-American Literat	ure 4
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202 Understanding Mu	ısic 3
203 Understanding Mu	ısic 3
205 Introduction to Jazz Hist	ory 3
200 Introduction to Thec	ıter 3

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Cultural Anthropology 4	ANTH 103
Microeconomics 4	or EC 201
Macroeconomics 4	or EC 202
Economic Geography 4	or GEOG 106
Intro to the Health Care System 3	or HHP 210
Human Sexuality 3	or HHP 231
Human Psychology 4	or HHP 248
History of Western Civilization 4	or HST 101
History of Western Civilization 4	or HST 102
History of Western Civilization 4	or HST 103
Intro US Government and Politics 4	or PS 201
Intro Comparative Politics 4	or PS 204
Intro International Relations 4	or PS 205
Mind and Brain 4	or PSY 201
Mind and Society 4	or PSY 202
Introduction to Sociology 4	or SOC 201
Social Psychology 4	or SOC 206

Difference, Power and Discrimination

HST 201 United States History to 1820 4	or HST 201
HST 202 United States History 1820-1920	or HST 202
HST 203 United States History 1920-Present 4	or HST 203
HST 225 US Women's History 4	or HST 225
SOC 212 Race, Class, Ethnicity 4	or SOC 212
SOC 215 Social Issues and Social Movements 4	or SOC 215
WS 101 Introduction to Women's and Gender Studies 4	or WS 101

Intro to Literature: Poetry 4

Intro to Literature: Ancient 4

Intro to Literature: Modern 4

Survey British Literature I 4

Survey British Literature II 4

Intro Folklore and Mythology

Survey American Literature I 4

Shakespeare 4

Shakespeare 4

Intro to Literature: Middle Ages 4

Topics in Am Lit: Contemp Fiction 4

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JENNIFER CRUICKSHANK

Assistant Professor II, Health and Human Performance

B.S. in Exercise Sport Science, Colorado State University; M.S. in Human Movement, A.T. Still University. At COCC since 2004.

DEBORAH S. DAVIES

Professor of Dental Assisting

A.A. in Dental Hygiene, Pueblo Community College; B.S. in Biology, University of Southern Colorado; Oregon Dental Hygiene License and certification by the National Dental Hygiene Board. At COCC since 1997.

MICHELE D. DECKER

Professor of Nursing/Program Director

B.S. in Community Health Education, Oregon State University; B.S. in Nursing and M.S. in Nursing Education and Administration, Oregon Health Sciences University; M.Ed. in Adult Education, Oregon State University. At COCC since 2005.

JANE DENISON-FURNESS

Assistant Professor I of English, Developmental Literacy

A.A. in Liberal Arts, Rock Valley College; B.A. in English, Northern Illinois University; M.A. in English, Northern Illinois University. At COCC since 2015.

TRISH DENNEY

Temporary Instructor of Medical Assisting

A.G.S, Certificate in Medical Assisting, Central Oregon Community College. At COCC since 2009.

STACEY L. DONOHUE

Professor of English

B.A. in English, University Center at Binghamton, State University of New York; Ph.D. in English, City University of New York. At COCC since 1995.

KRISTIN DORSEY

Assistant Professor II of English

B.A. in English Literature, Reed College; M.A. in Children's Literature, Simmons College; M.A. in English Literature, Portland State University. At COCC since 2014.

WENDY EARTHSONG

Assistant Professor I of Health Information Technology

B.A. in Healthcare Administration, Ashford University. At COCC 2001-2004 and since 2015.

MARK W. EBERLE

Professor of Biological Sciences

B.A. in Bacteriology, University of California, Davis; Ph.D. in Entomology, University of California, Davis. At COCC since 1988.

JAMES H. ELLIS

Associate Professor of Accounting/General Business

B.S. in Behavioral Science, Westminster College; A.A. in Accounting, Salt Lake City Community College; B.S. in Accounting, and M.B.A. in Business, Westminster College; M.S. in International Business, Southern New Hampshire University. At COCC since 2006.

BRUCE L. EMERSON

Professor of Physics

B.S. in Physics, Montana State University; Ph.D. in Physics, University of Utah. At COCC since 1992.

THOR ERICKSON

Assistant Professor I of Culinary Arts

 $\mbox{A.A.}$ in Hospitality Management, Columbia Community College. At COCC since 2011.

JOSHUA EVANS

Associate Professor of Spanish

B.A. in International Studies, Bowling Green State University; M.A. in Spanish, Bowling Green State University. At COCC since 2010.

SHERRY FARLEY

Assistant Professor I of Biology

B.S. in Ecology, University of Georgia; Ph.D. in Nutrition, Oregon State University. At COCC since 2016.

CATHERINE L. FINNEY

Professor, Associate College Librarian, Collections and Acquisitions

B.A. in English, Carleton College; M.L.S. in Library Science, University of Washington. At COCC since 1992.

REBECCA FRANKLIN

Assistant Professor I of Forest Resources Technology

B.S. in Forestry, Humboldt State University; Ph.D. in Geosciences, University of Arizona. At COCC since 2013.

THERESA FREIHOEFER

Associate Professor of Business

B.A. in Business Economics, UCLA; M.B.A., Pepperdine University. At COCC since 2007.

SARAH FULLER

Assistant Professor II of Biology

A.A. in Math/Science, Bryn Athyn College; B.S. in Botany, University of Maryland; M.S. in Ecology, Evolution and Behavior, University of Minnesota. At COCC since 2011.

MICHAEL C. GESME

Professor of Music

B.A. in Music, Luther College; M.M. in Orchestral Conducting, University of Missouri-Columbia; M.A. in Music History, University of Missouri-Columbia. At COCC since 1996.

JESSICA GIGLIO

Assistant Professor II of Mathematics

B.A. in Mathematics, Lake Forest College; M.S. in Mathematics, Oregon State University. At COCC since 2013.

MURRAY GODFREY

Assistant Professor II of History

A.A.S. in Intelligence Operations, Cochise College; B.A. in History, Texas State University; M.A. in History, Texas State University. At COCC since 2012.

KEVIN D. GROVE

Associate Professor of Physical Science/Physics

B.S. in Civil Engineering, Montana State University; M.S. in Chemical Engineering, Montana State University. At COCC since 2005.

LAURA HAGEN

Temporary Instructor of Culinary

B.A. in English, Western Washington University. At COCC since 2013.

ANNEMARIE HAMLIN

Associate Professor of English

B.A. in English and French, Pacific Union College; M.A. in English, Claremont Graduate School; Ph.D. in English, Claremont Graduate School. At COCC since 2010.

JESSICA HAMMERMAN

Assistant Professor II of History

B.A. in History and Comparative Literature, Washington University in St. Louis; M.A. in Philosophy, Modern European History and Jewish History, City University of New York; Ph.D. in Modern European History and Jewish History, City University of New York. At COCC since 2013.

MICHAEL HANSEN

Assistant Professor II of Business

B.S. in Business Administration, California State University, Sacramento; M.B.A., California State University, Sacramento. At COCC since 2014.

AMY E. HARPER

Professor of Anthropology

B.A. in Anthropology and Germanic Languages and Literature, University of Montana; M.A. in Anthropology, University of Massachusetts; Ph.D. in Anthropology, University of Massachusetts. At COCC since 2002.

CARSON E. HAURY

Professor of Computer and Information Systems

B.A. in Biology, State University of New York; M.S. in Information Systems, Naval Postgraduate School. At COCC since 1998.

M. SCOTT HAYS

Professor of Business Administration

A.A. in Business Administration, Bakersfield Community College; B.S. in Business Administration/Accounting, California State University, Chico; M.B.A., California State University, Bakersfield; Ph.D. in Education, University of Idaho. At COCC since 2002.

CHRISTOPHER HAZLETT

Assistant Professor I of English

B.A. in English, Western Illinois University; M.A. in English, Western Illinois University; Ph.D. in English, University of Florida. At COCC since 2015.

KAREN HECKERT

Assistant Professor II of Health and Human Performance

B.A. in French Literature and Political Science, Colorado University; M.S.W. in Human Services Management and Community Organization, University of Michigan; M.P.H. in Health Education and Health Behavior, University of Michigan; Ph.D. in Health Systems and International Health Promotion, Walden University. At COCC since 2014.

SARA HENSON

Assistant Professor II of Human Development/Program Director

B.A. in Asian & International Studies, University of Oregon; M.Ed. in Higher Education & Student Affairs Administration, University of Vermont. At COCC since 2011.

CAROL HIGGINBOTHAM

Professor of Chemistry

B.A. in Chemistry, Central College; Ph.D. in Biochemistry, Montana State University. At COCC since 1999.

DAN HOLLAND

Temporary Instructor of Manufacturing Technology

At COCC since 2015.

LIN HONG

Assistant Professor II of Chinese

B.A. in Chinese Language and Literature, Mudanjiang Normal College; M.A. in Chinese Linguistics, Liaoning Normal University. At COCC since 2015.

WILLIAM HOPPE

Professor of Art

B.A. in Art, St. John's University; M.F.A. in Art/Painting, University of Washington. At COCC since 2000.

KIRSTEN HOSTETLER

Instruction and Outreach Librarian

B.A in English, University of Evansville; MLSIS, Old Dominion University. At COCC since 2014.

AMY VAN DUSEN HOWELL

Associate Professor of Education/Early Childhood Education Program Director

B.A. in Psychology, Willamette University; Ph.D. in Educational Psychological Studies, University of Colorado. At COCC since 2004.

MERIDETH HUMPHRIES

Assistant Professor II of Biology

B.S. in Zoology, Oregon State University; M.S. in Entomology, University of California, Davis; Ph.D. in Biochemistry, University of Queensland. At COCC since 2014

CHARLES R. HUTCHINGS

Associate Professor of Spanish

B.A. in Spanish, California State University, Stanislaus; M.A. in Spanish, California State University, Fresno. At COCC since 1992.

ELIZABETH HYLTON

Assistant Professor II of Mathematics

B.S. in Mathematics and M.Ed. and M.S.T. in Mathematics, Portland State University. At COCC since 2016.

EDWARD W. JOHNSON

Professor of Human Biology

B.S. in Biology, City College of New York; M.S. in Zoology, University of Vermont; Ph.D. in Anatomy and Neurobiology, Colorado State University. At COCC since 2002.

JULIE A. KEENER

Professor of Mathematics

B.S. in Elementary Education, Oregon College of Education, now Western Oregon State College; M.S.T. in Mathematics, Portland State University. At COCC since 1990.

JAMES W. KNOX

Associate Professor of Music

B.S. in Music, Portland State University; M.M. in Choral Conducting, Portland State University. At COCC since 2003.

SAMUEL LA DUCA

Temporary Instructor of Culinary

A.S. in Hospitality Management, Valencia College; B.S. in Business Management, Western Governors University. At COCC since 2011.

JASON I AMB

Assistant Professor II of Art History

B.F.A. in Painting, University of Illinois, Urbana-Champaign; B.F.A. in Art History, University of Illinois, Urbana-Champaign; M.A. in Art History, Northern Illinois University. At COCC since 2013.

MATTHEW LACHANCE

Assistant Professor I of Emergency Medical Services

A.S. in Emergency Medical Services, Central Oregon Community College; B.S. in Natural Resource Management and Policy, Paul Smith's College. At COCC since 2016.

AMANDA LAYTON

Assistant Professor I of Biology

B.A. in Exercise Science, Willamette University; M.S. in Exercise Science, Central Washington University. At COCC in 2013 and since 2015.

JOHN LICCARDO

Associate Professor of Health and Human Performance

B.S. in Exercise Physiology and Anthropology, University of Utah; M.S. in Exercise Physiology and Anthropology, University of Utah. At COCC since 2012.

LILLI ANN LINFORD-FOREMAN

Professor of Speech/Theatre

A.B. in Drama, Stanford University; M.F.A. in Theatre, Pennsylvania State University. At COCC since 1987.

DAVID H. LIU

Associate Professor of Mathematics

B.A. in Chinese Language and Literature, Beijing Normal University; M.A. in Teaching, Pacific University. At COCC since 2006.

ERIC MAGIDSON

Associate Professor of Computer Information Systems

A.A.S. in Computer and Information Systems, Central Oregon Community College; B.S. in Information Technology, Oregon Institute of Technology; M.B.A., Concordia University. At COCC since 2008.

DEBORAH MALONE

Assistant Professor II of Medical Assisting/Program Director

B.S. in Nursing, University of Washington; M.S. in Women's Health Care Nurse Practitioner, Oregon Health & Science University. At COCC since 2009.

KENNETH W. MAYS

Professor of Automotive Technology/Program Director

A.S. in Automotive Technology, Southwestern College. At COCC since 1990.

KATHLEEN M. McCABE

Professor of Criminal Justice/Program Director

B.A. in Criminal Justice, Michigan State University; M.A. in Guidance and Counseling, Oakland University. At COCC since 2004.

MICHAEL McCANN

Assistant Professor II of Geography

B.A. in Foreign Language, Berry College; M.A. in Geography, Georgia State University. At COCC since 2007.

KARI McDANIEL

Assistant Professor I of Nursing/Nurse Administrator (CNA)

B.S. in Nursing, Oregon Health Sciences University. At COCC since 2016.

BRET L. MICHALSKI

Professor of Forest Resource Technology/Program Director

B.S. in Wildlife Management, Humboldt State University; M.S. in Wildlife Science, Oregon State University. At COCC since 1994.

SUSAN MILLER

Assistant Professor I of Nursing

B.S. in Nursing, Medical College of Georgia; M.S. in Nursing, Emory University. At COCC since 2013.

JAMES D. MOODIE

Professor of General Biology

B.S. in Biology, Saint John's University; M.S. in Zoology, University of Idaho; Ph.D. in Zoology, University of Oklahoma, Norman. At COCC since 2001.

JANE MORROW

Professor of Nursing

B.A. in Nursing, Augustana College; M.N. and F.N.P., Washington State University. At COCC since 2003.

OWEN MURPHY

Assistant Professor II of Health & Human Performance

B.S. in Exercise Physiology, California State University, Chico; M.S. in Health & Human Development, Montana State University, Bozeman. At COCC since 2011.

LYNN L. MURRAY

Associate Professor of Dental Assisting/Program Director

B.S. in Applied Health Studies, Pennsylvania College of Technology; M.Ed. in Educational Leadership, Concordia University. Registered Dental Assistant License, Radiation Certification, Certified Dental Assistant, Expanded Functions Dental Assistant. At COCC since 1997.

DOUGLAS D. NELSON

Professor of Mathematics

B.S. in Wood Science and Technology, Colorado State University; M.S. in Pure Mathematics, Northern Arizona University. At COCC since 1998.

MATTHEW NOVAK

Assistant Professor II of Psychology

B.S in Psychology, University of Washington; Ph.D. in Developmental Psychology, University of Washington. At COCC since 2011.

ALAN NUNES

Assistant Professor I of Licensed Massage Therapy

A.S. in Massage Therapy, Central Oregon Community College. At COCC since 2009.

SANDOR D. (SEAN) PALAGYI

Professor of Computer and Information Systems

Coursework in Drafting Technology and GIS, Central Oregon Community College; B.S. in Political Science, University of Oregon. At COCC since 1998.

BETH PALMER

Assistant Professor II of Veterinary Technology/Program Director

A.A.S. in Veterinary Technology, Portland Community College. At COCC since 2013.

PAUL PELLY

Assistant Professor II of Automotive Technology

A.S. in Automotive Technology, Portland Community College. At COCC since 2008

TIM PETERSON

Associate Professor of Outdoor Leadership/

Health and Human Performance

B.A. in History, Bucknell University; Outdoor Leadership Certificate, Greenfield Community College. At COCC since 2008.

RALPH R. PHILLIPS

Associate Professor of Computer and Information Systems

B.A. in Finance and M.A. in Business/Office Education, University of South Florida. At COCC since 2005.

REBECCA J. PLASSMANN

Professor of Mathematics

A.B. in Mathematics, Bryn Mawr College; M.A. in Mathematics, Bryn Mawr College; M.A. in Education in Mathematics Science and Technology, University of California, Berkeley. At COCC since 1995.

FLEUR PRADE

Assistant Professor II of French

B.A. in French Studies and Italian Studies, University of Delaware; M.A. in French, Middlebury College. At COCC since 2013.

ROBERT W. REYNOLDS

Professor of Geology

B.S. in Geology, Penn State University; M.S. in Geology, University of Idaho; Ph.D. in Geology, University of Idaho. At COCC since 1994.

CHRISTIE RUBIO

Associate Professor of Composition

B.A. in Journalism, California State University; M.A. in English, California State University. At COCC since 2009.

KEN RUETTGERS

Assistant Professor I of Sociology

B.S. in Business Administration, University of Southern California; M.B.A., California State University, Bakersfield; D.Phil., Oxford Graduate School. At COCC since 2011.

SEAN RULE

Professor of Mathematics

B.A. in Mathematics Education, University of Delaware; M.Ed. in Mathematics Education, University of Delaware. At COCC since 2004.

JESSICA RUSSELL

Assistant Professor II of Outdoor Leadership

B.S. in Therapeutic Recreation, Middle Tennessee University; M.A. in Environmental Studies, Prescott College. At COCC since 2011.

TONY RUSSELL

Associate Professor of English

A.A. in French, Ricks College; A.A. in English, Ricks College; B.A. in English, Northern Kentucky University; M.A. in English, Purdue University; Ph.D. in English, Purdue University. At COCC since 2010.

KIRI A. SIMNING

Professor of Nursing

B.S. in Nursing, University of North Carolina, Chapel Hill; M.S. in Nursing, Loma Linda University. At COCC since 1998.

PAULA A. SIMONE

Assistant Professor II of Wildland Fire Science/Program Director

A.A., Central Oregon Community College; B.S. in General Science, University of Oregon; M.A. in Safety, Security and Emergency Management, Eastern Kentucky University. At COCC since 1999.

KATHY SMITH

Professor of Mathematics

B.A.S. in Mathematics and Philosophy, University of California, Davis; M.S. in Mathematics, Oregon State University; Ph.D. in Mathematics, Oregon State University. At COCC since 2001.

ELEANOR SUMPTER-LATHAM

Professor of Developmental Writing and Composition

B.A. in English, University of British Columbia; M.A. in English, University of British Columbia; M.A. in English, University of Victoria; Ph.D. in English, University of Washington. At COCC since 1994.

KEN SWARTWOUT

Assistant Professor II of Computer & Information Systems

B.S. in Computer & Information Science, University of Oregon; M.E., University of Oregon. At COCC since 2011.

DANA TOPLIFF

Associate Professor of Nursing

A.D.N. in Nursing, Contra Costa College; B.S.N. in Nursing, California State University; M.P.A. in Nursing, California State University. At COCC since 2006.

FORREST TOWNE

Assistant Professor II of Chemistry

B.S. in Chemistry, George Fox University; Ph.D. in Chemistry, University of Montana. At COCC since 2012.

DAVID TRASK

Temporary Instructor of Culinary Arts

Certificate in Culinary Arts, Western Culinary School. At COCC since 2012.

MONICA VINES

Associate Professor of Human Development/Program Director, Addictions Studies

B.S. in Psychology, Washington State University; M.A. in Counseling Psychology, John F. Kennedy University. At COCC since 2004.

RICKY VIRK

Professor of Health and Human Performance

B.A. in Biology, University of Texas at Austin; M.S. in Nutrition Science, Oregon State University; Ph.D. in Nutrition Science, Oregon State University. At COCC since 2001.

REBECCA L. WALKER-SANDS

Professor of Psychology

B.S. in Psychology, Southern Oregon State College; M.A. in Experimental Psychology, University of Nevada, Reno; Ph.D. in Psychology, University of North Carolina at Greensboro. At COCC since 1995.

MICHEL WALLER

Assistant Professor II of Anthropology

B.A. in Journalism, University of North Dakota; B.S. in General Science, University of Oregon; M.A. in Anthropology, Iowa State University. At COCC since 2010.

SHANNON WALLER

Assistant Professor II of Pharmacy Technician Education/

Program Director

Pharmacy Technician Diploma, Apollo College; A.A. in Liberal Arts, Solano Community College; B.A. in Education, Western Governors University; M.Ed. in Instructional Design, Western Governors University. At COCC since 2012.

WENDI WAMPLER

Assistant Professor II of Engineering and Physics

B.S. in Chemical Engineering, Purdue University; B.S. in Physics, Purdue University; Ph.D. in Physics with specialization in Physics Education, Purdue University. At COCC since 2014.

AMY WHEARY

Assistant Professor I of Nursing

B.S. Nursing, Arizona State University. At COCC since 2016.

MALINDA M. WILLIAMS

Assistant Professor II of English

B.A. in English and Biblical Studies, Hope International University; M.A. in English, California State University, Chico; Ph.D. in English, University of Denver. At COCC since 2013.

JONATHAN WOLF

Assistant Professor II of Economics

B.A. in Sociology and Economics, Claremont Men's College; M.A. in Economics, Claremont Graduate School. At COCC since 2014.

ANDRIA J. WOODELL

Professor of Psychology

B.A. in Psychology, University of Arkansas; M.A. in Experimental Psychology, University of Arkansas; Ph.D. in Experimental Psychology, University of Arkansas. At COCC since 2004.

WENDY WORTHINGTON

Temporary Instructor of Human Development

B.S. in Nursing, University of Washington; M.S. in Counseling, Oregon State University – Cascades. At COCC since 2011.

WAYNE YEATMAN

Assistant Professor II, Culinary Arts, Chef Instructor

A.S. in Culinary Arts, Newbury College; B.S. in Hotel Restaurant Management, University of Massachusetts; M.B.A. in Business Administration, Southwest Texas State University. At COCC since 2012.

ZELDA ZIEGLER

Associate Professor of Chemistry

B.S. in Chemistry, Idaho State University; Ph.D. in Analytical Chemistry, Purdue University. At COCC since 2002.

ANNE ZMYSLINSKI-SEELIG

Assistant Professor I of Speech

B.A. in Communication, North Dakota State University; M.A in Communication, North Dakota State University. At COCC since 2015.

FACULTY ACHIEVEMENT AWARD RECIPIENTS

The Faculty Achievement Award recognizes excellence in teaching. It is awarded each year at the College's faculty convocation ceremony. Those who have been honored are:

1986 Bruce Nolf, Professor of Geology

1987 Jack R. McCown Jr., Professor of Mathematics

1988 C. Wayne Eshelman, Professor of Biological Sciences

1989 Millie MacKenzie, Professor of Office Administration

1990 Raymond R. Hatton, Professor of Geography

1991 Michael A. Sequeira, Associate Professor of Mathematics

1992 Ellen M. Howe, Associate Professor of Nursing

1993 Darla J. Quesnell, Professor of Psychology

1994 Bruce W. McClelland, Professor of Chemistry

1995 E. Robert Powell, Professor of Physical Science and Chemistry

1996 Diana Glenn, Associate Professor of Office Administration

1997 Cora Agatucci, Associate Professor of English

1998 Mark E. Eberle, Associate Professor of Biological Sciences

1999 Patricia O'Neill, Associate Professor of History

2000 Bruce L. Emerson, Associate Professor of Physics

2001 Terry Krueger, Professor of English

2002 Gloria Ahern, Professor of Health Information Technology

2003 Julie A. Keener, Professor of Mathematics

2004 Rebecca L. Walker-Sands, Associate Professor of Psychology

2005 Charles T. Naffziger, Associate Professor of Mathematics

2006 Michael C. Gesme, Associate Professor of Music

2007 Robert W. Reynolds, Professor of Geology

2008 Stacey L. Donohue, Professor of English

2009 Karen Huck, Professor of Speech

2010 Julie F. Downing, Professor of Health and Human Performance

2011 Julie F. Hood, Associate Professor of Human Biology

2012 Kathleen M. McCabe, Associate Professor of Criminal Justice

2013 Deborah S. Davies, Professor of Dental Assisting

2014 Carol Higginbotham, Professor of Chemistry

2015 Amy Van Dusen Howell, Associate Professor of Education

2016 Beverlee Jackson, Professor of Health Information Technology

2017 Andria Woodell, Professor of Psychology

ADJUNCT FACULTY

TRAVIS ALLEN

Adjunct Instructor of Music

MICHELLE BUTCHER

Adjunct Instructor of Mathematics

JAMES CAGNEY

Adjunct Instructor of Computer Information Systems

KENDA CALIGURE

Adjunct Instructor of Mathematics

CHRISTIN CAPPY

Adjunct Instructor of Anthropology

AMBER CLARK

Adjunct Instructor of License Massage Therapy

RODNEY CROSS

Adjunct Instructor of License Massage Therapy

SUSAN DIXON

Adjunct Instructor of Business

KERI DONOVAN

Adjunct Instructor of Humanities

STEVE EDWARDS

Adjunct Instructor of Biology

KAREN ELLIS

Adjunct Instructor of Fine Arts/Art

TARA ENDRIES

Adjunct Instructor of Health and Human Performance

DAVID ENGEL

Adjunct Instructor of Spanish

IAN FACTOR

Adjunct Instructor of Fine Art

SCOTT GARDNER

Adjunct Instructor of Mathematics

JANET GESME

Adjunct Instructor of World Languages and Cultures

MELINDA GESUALE

Adjunct Instructor of Nursing

SHELLY GRIFFIN

Adjunct Instructor of Humanities

BRYAN GRISET

Adjunct Instructor of Computer Information Systems

PATRICIA HAMMER

Adjunct Instructor of Mathematics

GARRETT HANDKE

Adjunct Instructor of Health and Human Performance

DONAL HARDIN

Adjunct Instructor of Criminal Justice

JIM HAWES

Adjunct Instructor of Writing

DEBBIE HAYNES

Adjunct Instructor of Health and Human Performance

BECKY HEINRICK

Adjunct Instructor of Health and Human Performance

KACEY LUNDIN

Adjunct Instructor of Nursing

TAMRA MARSH

Adjunct Instructor of Nursing

LISA MCGEAN

Adjunct Instructor of Writing

PETER MEYER

Adjunct Instructor of Ceramics

SUE MEYER

Adjunct Instructor of Business

DANIEL MONTOYA

Adjunct Instructor of Health and Human Performance

MICHELE MORRIS

Adjunct Instructor of Culinary

SCOTT MURDOCH

Adjunct Instructor of Nutrition

STEVE PENGRA

Adjunct Instructor of Emergency Medical Services

REBECCA RIGGS

Adjunct Instructor of Psychology

ANNMARIE SARGENT

Adjunct Instructor of Writing

JULIE SCHMIDT

Adjunct Instructor of Mathematics

KATIE SHELDON

Adjunct Instructor of Engineering

KEVIN SIVERTSON

Adjunct Instructor of Aviation

TERRY STEELE

Adjunct Instructor of Automotive

ROXIE SUPPLEE

Adjunct Instructor of Criminal Justice

GREGG TERHAAR

Adjunct Instructor of Health and Human Performance

JANE THIELSEN

Adjunct Instructor of Writing

MICHAEL THILLE

Adjunct Instructor of Biology

JACQUELINE VANCE

Adjunct Instructor of Early Childhood Development

MICHAEL VAN METER

Adjunct Instructor of Humanities

THERESA WILSON

Adjunct Instructor of Chemistry

SARAH WUEPPER

Adjunct Instructor of Mathematics

BEN YOUNG

Adjunct Instructor of Computer Information Systems

JANE YOUNGS

Adjunct Instructor of Nursing

TEACHING AWARD FOR PART-TIME AND ADJUNCT FACULTY

Central Oregon Community College recognizes excellence in teaching. The teaching award for part-time and adjunct faculty is presented each year to an outstanding member of the College's part-time and adjunct faculty. Those who have been honored are:

2010 Carolyn Esky, Adjunct Instructor of Human Development

2011 Peter Meyer, Adjunct Instructor of Art

2012 Patricia Hammer, Adjunct Instructor of Mathematics

2013 Carl Cavallo, Adjunct Instructor of Automotive

2014 Jim Stedman, Adjunct Instructor of Writing

2015 Heather VanDiest-Kolb Adjunct Instructor of Criminal Justice

2016 Rodney Cross, Adjunct Instructor of License Massage Therapy

2017 David Engel, Adjunct Instructor of Spanish

ADULT BASIC SKILLS INSTRUCTORS

LISA BOHARD

Adult Basic Skills Instructor

B.S. in Science, University of Oregon, Cascades; M.A.T with Mathematics Endorsement, Western Oregon University. At COCC since 2013.

ANITA GOODWIN

Adult Basic Skills Instructor, DRCI

B.A. in German and Geology, 1987, University of North Alabama; B.S. in Elementary Education, University of North Alabama; M.S. in Elementary Education, Jacksonville State University. At COCC since 2014.

JENNIFER JUDD

Adult Basic Skills Instructor

B.A. in Anthropology, Whitman College; M.Ed. in Adult Education and Training – Adult Basic Education, Seattle University. At COCC since 2013.

KAREN LEEP

Adult Basic Skills Instructor

B.A. in Secondary Education, Western Oregon State College. At COCC since 1995.

ANGELINA PTOMEY

Adult Basic Skills Instructor, Deer Ridge Correctional Institution

B.S. in Human Development and Family Science, Oregon State University; M.S. in Higher Education Leadership and Administration, Capella University. At COCC since 2012.

AMY STANCLIFF

Adult Basic Skills Instructor

B.A. in English, Brigham Young University; M.Ed., University of Alberta. At COCC since 2005.

AMY STINARD

Adult Basic Skills Instructor

B.S. in Business/Marketing, Ball State University. At COCC since 1997.

COREY TAYLOR

Adult Basic Skills Instructor

B.A. in English, University of Oregon; M.A.T. in Teaching in Language Arts, Oregon State University – Cascades. At COCC since 2012.

FACULTY EMERITUS

GLORIA AHERN, R.R.A.

Professor of Health Information Technology

B.A. in Medical Record Administration, Carroll College; Certificate in Medical Record Science, Providence Hospital, Seattle; A.H.I.M.A. registration. At COCC from 1980 to 2002.

ROBERT BROOKOVER

Professor of Business Equipment Service Technology

B.A. in Industrial Arts, San Francisco State University; M.Ed. in Vocational Education, Oregon State University. At COCC from 1972 to 1997.

RILL BUCK

Professor of English

B.A. in English, California State University at Fullerton; M.A. in English, California State University at Fullerton; Ph.D. in English Literature, University of California, Riverside. At COCC from 1989 to 2004.

THOMAS M. CARROLL

Professor of Economics

B.S. in Economics, University of Idaho; M.S. in Agricultural and Resources Economics, Oregon State University. At COCC from 1980 to 2014.

BOB COOPER

Professor of Forestry

B.S. in Forest Management, Oregon State University; M.F.R. in Forestry, University of Washington. At COCC from 1986 to 1998.

FORREST M. DANIEL

Professor of Music

B.A. in Music, Adams State College; M.A. in Music, Adams State College. At COCC from 1978 to 1995.

DEBORAH S. DAVIES

Professor of Dental Assisting

A.A. in Dental Hygiene, Pueblo Community College; B.S. in Biology, University of Southern Colorado; Oregon Dental Hygiene License and certification by the National Dental Hygiene Board. At COCC since 1997.

DANIEL EARLY

Professor of Anthropology and Sociology

A.A., San Francisco City College; B.A. in Anthropology and Sociology, University of California, Berkeley; M.A. in Anthropology and Sociology, Catholic University; Ph.D. in Anthropology, Catholic University. At COCC from 1978 to 2002.

MARK W. EBERLE

Professor of Biological Sciences

B.A. in Bacteriology, University of California, Davis; Ph.D. in Entomology, University of California, Davis. At COCC since 1988.

J. ALLEN EHL

Associate Professor of Automotive Technology

B.Ed. in Trade and Industrial Education, Colorado State University; M.Ed. in Administration and Supervision of Vocational Education, Colorado State University; General Motors S.E.T. Certification. At COCC from 1969 to 1990.

C. WAYNE ESHELMAN

Professor of Biological Sciences

B.S. in Biology, College of Idaho; M.A. in Zoology, University of South Dakota. At COCC from 1965 to 1994.

DONALD L. GALLAGHER

Professor of Mathematics

B.S. in Secondary Education, Northern Montana; M.A.T. in Mathematics, University of Montana. At COCC from 1969 to 1994.

CHARLES R. HEIDEN

Professor of Music

B.M., Northwestern University; M.F.A., Ohio University; D.M., Northwestern University. At COCC from 1981 to 1994.

FRANZ HELFENSTEIN

Professor of Mathematics

B.S. in Mathematics, Colorado State University; M.S. in Mathematics, Oregon State University; Ph.D. in Applied Mathematics, Oregon State University. At COCC from 1990 to 2016.

JULIE F. HOOD GONSALVES

Professor of Human Biology

B.S. in Human Nutrition, Oregon State University; Licensed Dietitian, Oregon State Board of Licensed Dietitians; Registered Dietitian, American Dietetic Association; M.S. in Nutrition, Oregon State University; Ed.D., Lewis and Clark College. At COCC from 1988 to 2016.

DUANE HOUGHT

Associate Professor of Business and Accounting

B.S. in Business Administration, University of Nevada; M.S. in Business Education, Oregon State University. At COCC from 1979 to 2002.

ELLEN M. HOWE

Associate Professor of Nursing

B.S. in Nursing, Mount Marty College for Women; M.S. in Nursing, University of Portland. At COCC from 1981 to 2002.

MARJORIE HOYE

Professor of Composition and Technical Writing

B.S. in English Education, West Chester State University; M.A. in Teaching English as a Second Language, San Francisco State University; Ph.D. in Applied Linguistics, University of Texas at Austin. At COCC from 1991 to 2013.

KAREN HUCK

Professor of Speech

B.A. in Journalism, Idaho State University; M.A. in Speech/Theatre, Idaho State University; Ph.D. in Communication, University of Utah. At COCC from 1988 to 2014.

BEVERLEE R. JACKSON

Professor of Health Information Technology/Program Director

A.S. in Medical Record Technology, Central Oregon Community College; B.A. in Interpersonal Communications, Marylhurst College. At COCC from 1990-1994 and 2002-2017.

SUSAN HAYS KLEIN

Associate Professor of Health Information Technology

B.S. in Health Information Services, Seattle University; A.H.I.M.A. Registration. At COCC from 1985 to 2002.

RODNEY A. KOHLER

Professor of Mathematics

B.S. in Math and Science Education, Eastern Oregon College; M.S. in Mathematics, University of Oregon. At COCC from 1966 to 1998.

SARA L. KREMPEL

Professor of Art

B.A. in Art and Philosophy, University of Wisconsin; B.F.A. in Art, University of Wisconsin; M.F.A. in Art, University of Wisconsin. At COCC from 1990 to 2011.

IAMES I KRESS

Professor of Business

B.B.A. in Business, University of Oregon; M.B.A. in Business Administration, Portland State University. At COCC from 1988 to 2014.

TERRY KRUEGER

Professor of English

B.A. in English, University of Montana; M.F.A. in English, University of Iowa; Ph.D. in English, University of Iowa. At COCC from 1990 to 2015.

LOWELL H. LAMBERTON

Professor of Business

B.A. in English, Walla Walla College; M.A. in English, University of Nebraska; M.B.A. in Business Management and Advanced Professional Certificate in Management, Suffolk University. At COCC from 1981 to 2011.

GREGORY T. LYONS

Professor of English

B.A. in English, Rice University; M.A. in English and American Literature, University of Washington; Ph.D. in Rhetoric and Composition, The University of Texas at Austin. At COCC from 1991 to 2011.

MILLIE MACKENZIE

Professor of Business

B.S. in Finance and Business Environment, University of Oregon; M.S. in Personnel and Industrial Management, University of Oregon; Certified Professional Secretary. At COCC from 1978 to 1999.

BRUCE W. MCCLELLAND

Professor of Chemistry

B.S. in Chemistry, University of California, Berkeley; Ph.D. in Chemistry, Oregon State University. At COCC from 1974 to 2003.

JACK R. McCOWN, JR.

Professor of Mathematics

B.S. in Math Education, Eastern Oregon College; M.S. in Mathematics, Idaho State University. At COCC from 1976 to 2004.

CHARLES T. NAFFZIGER

Professor of Mathematics

B.S. in Mathematics Education, University of Oregon; M.S. in Mathematics, University of Arizona. At COCC from 1995 to 2017.

RICHARD NIEDERHOF

Professor of Forestry

B.S. in Forest Management, Clemson University; M.S. in Forestry and Industrial Management, Clemson University. At COCC from 1972 to 1999.

BRUCE NOLF

Professor of Geology

B.A. in Geology, University of Iowa; M.S. in Geology, California Institute of Technology; Ph.D. in Geology, Princeton University. At COCC from 1966 to 1993.

LORETTA NOLL

Professor of Nursing

B.S.N., Nursing, Southern Illinois University; M.S.N., Nursing, Texas Women's University. At COCC from 1978 to 1999.

STEVE O'BRIEN

Professor/Counselor

B.A. in Philosophy and Government, Boston University; M.S. in Counseling/ Recreation/Community Education, University of Oregon. At COCC from 1977 to 2003.

PATRICIA O'NEILL

Professor of History

B.A. in European History, University of Pennsylvania; M.A. in Asian History, State University of New York at Buffalo; Ph.D. in History, University of Washington. At COCC from 1985 to 2013.

CHRISTINE OTT-HOPKINS

Professor of Plant Biology

B.S. in Biology, Whitworth College; M.A. in Botany, Southern Illinois University; Ph.D. in Botany, Miami University. At COCC from 1993 to 2015.

MARGARET A. PETERSON

Professor of Allied Health/Health and Human Performance

B.A. in Anthropology, University of North Dakota; M.S. in Physical Education, University of North Dakota; Ed.D. in Higher Education Administration, Montana State University. At COCC from 1988 to 2015.

E. ROBERT POWELL

Professor of Physical Science and Chemistry

A.A., Central Oregon Community College; B.S. in General Science, Oregon State University; M.S. in Natural Science, New Mexico, Highlands. At COCC from 1967 to 1999.

DARLA J. QUESNELL

Professor of Psychology

B.A. in Psychology, University of California, Berkeley; Ph.D. in Psychology, University of California, Berkeley. At COCC from 1975 to 1995.

ROBERT W. REYNOLDS

Professor of Geology

B.S. in Geology, Penn State University; M.S. in Geology, University of Idaho; Ph.D. in Geology, University of Idaho. At COCC since 1994.

MICHAEL A. SEQUEIRA

Professor of Mathematics

B.S. in Mathematics, Stanford University; M.S. in Mathematics, Northwestern University. At COCC from 1982 to 2004.

VIRGINIA M. SHRAUGER

Professor of Reading and Study Skills

B.S. in Education, University of Nebraska; M.Ed. in Reading, University of Arizona. At COCC from 1970 to 1988.

WILLIAM P. SMITH

Professor of Machine Shop

A.A., Fullerton College; A.S. in Industrial Technology, Central Oregon Community College; CMfgE. At COCC from 1984 to 2003.

GENE TAYLOR

Professor of Computer and Information Systems

B.S. in Business Administration, Portland State University; M.S.T. in Education, Portland State University. At COCC from 1984 to 2003.

TOM TEMPLE

Associate Professor of Art

B.S. in Art Education, University of Oregon; M.S. in Art Education, University of Oregon. At COCC from 1971 to 1990.

H. WARD TONSFELDT

Professor of English

B.A. in English, Portland State College; M.A. in English and Comparative Literature, Occidental College; Ph.D. in Comparative Literature, University of California, San Diego. At COCC from 1975 to 2001.

BERN WISNER

Professor of Business

B.A. in Economics, Duke University; M.B.A., California State University, Dominguez Hills. At COCC from 1982 to 2002.

JEROME J. YAHNA

Professor of Music

Ph.B. in Music, University of North Dakota; M.A. in Music, University of Northern Colorado. At COCC from 1970 to 1993.

NANCY L. ZENS

Professor of History

B.A. in American History, Washington State University; M.A. in American History, Washington State University; Ph.D. in History, Washington State University. At COCC from 1989 to 2011.

ADMINISTRATION

BRIAN ALLISON

End User Support Administrator

A.G.S., Central Oregon Community College. At COCC since 2009.

SHARLA ANDRESEN

Director of Contracts and Risk Management

B.S. in Business, Lewis and Clark College; M.B.A., Marylhurst University. At COCC since 1991.

NATASHA ANDERSON-BUTLER

CAP Center Advisor

B.S. in Psychology/Behavioral Science, Mount Mary University; M.A. in Student Personnel Administration and Professional Counseling, Concordia University, Wisconsin. At COCC Since 2016.

MARY ANN ASSON-BATRES

Grants Coordinator

B.S. in Biology, University of Portland; M.A. in Teaching, University of Chicago; M.S. in Marine Ecology, University of Oregon; Ph.D. in Biochemistry and Molecular Biology, Oregon Health and Science University. At COCC since 2016.

SEANA BARRY

Director of CAP Center

B.A. in Communication Studies, University of Kansas. At COCC since 2008.

TUCKER BAUMAN

Welding Program Coordinator, DRCI

At COCC since 2008.

MIKE BEAULIEU

Campus Services Operations Supervisor

B.S. in Outdoor Recreational Management, Utah State University. At COCC since 2013.

SHARON BELLUSCI

Student Services Technology Coordinator

B.S. in Computer Science/Mathematics, University of Puget Sound. At COCC since 2010.

LORI A. BENEFIEL

Director of Bookstore and Auxiliary Services

B.A. in Business Administration, Briar Cliff College; M.B.A., Marylhurst University. At COCC since 1997.

STEPHANIE BILBREY

Student Housing Marketing and Summer Conference Coordinator

B.S. in Business Administration, University of Louisville. At COCC since 2015.

LISA BLOYER

Director of Fiscal Services

B.S. in Business, Portland State University; M.P.A., Portland State University. At COCC since 1996.

LAURA BOEHME

Director of ITS Infrastructure

B.A. in Spanish Translation, Brigham Young University; B.A. in International Relations, Brigham Young University; Ed.M. in Adult Education, Oregon State University. At COCC since 2010.

AARON BOONE

Senior Systems Administrator-Account & Team Support Specialist

A.A.S. in Computer and Information Systems, Central Oregon Community College. At COCC since 2013.

ZACHARY BOONE

Executive Director of COCC Foundation

B.A. in International Affairs, Lewis & Clark College; M.A. in Public Administration, Portland State University. At COCC since 2015.

MICHAEL BOWLING

Senior MIS Analyst Programmer

 $\ensuremath{\mathsf{B.S.}}$ in Computer Information Systems, Athens State College. At COCC since 2007.

LINDSAY BUCCAFURNI

Admissions Coordinator

B.A. in Liberal Studies: Pre-Elementary Education, Oregon State University. At COCC since 2013.

DANIEL CECCHINI

Chief Information Officer

B.A. in Computer Science and B.S. in Biology, Wayne State University; M.B.S. in Science, University of Colorado; M.B.A. in Operations Management, Regis University. At COCC since 2006.

KARI CHENEY

Adult Basic Skills Workforce Navigator

B.A. in Mathematics, Walla Walla College; M.S. in Statistics, Washington State University. At COCC Since 2016.

STEVEN CURLEY

Director of Small Business Development Center

A.S. in Computer Science, Broome Community College; B.S. in Business Management, Linfield College. At COCC since 2014.

ANDREW P. DAVIS

Director of Student and Campus Life

B.S. in Business Administration, Oregon State University; M.B.A, Eastern Oregon University. At COCC since 2016.

WADE DEBRAAL

Assistant Network Administrator

GNU/Linux OS, Cisco Systems IOS, HTML/PHP/Perl/C Language. At COCC since 2006.

DAVID DONA

Chief Financial Officer

B.S. in Business, Southern Oregon University; M.B.A., Southern Oregon University; C.P.A., State of Oregon. At COCC since 2007.

SCOTT DONNELL

Web Designer

B.A. in Business/Marketing, Oregon State University. At COCC since 2008.

DONALD DOUGHTY

Campus Public Safety Supervising Officer

At COCC Since 2014.

WILLIAM DOUGLASS

Director of Club Sports and Intramural Coordinator

A.A. in Liberal Arts, Central Oregon Community College; B.S. in History, University of Oregon. At COCC 1975 to 1987 and since 1995.

TRACY DULA

Career Services Coordinator

A.A. in Liberal Arts, Ocean County College; B.A. in Special Education, Georgian Court College. At COCC since 2009.

WESLEY DYMOND

Information Security Administrator

A.S. in Electronic Engineering, ITT Technical Institute; B.S. in Automated Manufacturing, ITT Technical Institute. At COCC since 2013.

CHRISTOPHER EGERTSON

Research Analyst

B.S. in Biology and Environmental Science, Mankato State University; M.S. in Animal Ecology, Iowa State University. At COCC since 2006.

SHAWNA ELSBERRY

Director of Student Retention

B.S. in Psychology, Eastern Oregon University; M.Ed. in Adult Education, Colorado State University. At COCC since 2004.

DANIELLE FEGLEY

Director of Human Resources

B.B.A in Management, University of Alaska, Anchorage; M.B.A in Business Administration, Temple University. At COCC since 2016.

IFFEREY FLOYD

Senior Network Administrator

Attended Central Washington University. At COCC since 2010.

JENNIFER FORBESS

Writing Tutor Center Coordinator

B.S. in Liberal Studies, Oregon State University; M.A. in General English, Northern Arizona University. At COCC since 2014.

JARED FORELL

Assistant Director of Admissions and Records,

Curriculum & Technology

B.S. in Elementary Education, Linfield College. At COCC since 2015.

STEPHANIE GOETSCH

Program Manager, Community Learning

B.S. in Social Science, University of Oregon; M.Ed. in Adult Education, Oregon State University. At COCC since 2005.

CAREN GRAHAM

Continuing Education Marketing Manager

B.S. in Society, Health and Aging, The City University of New York; M.A. in Public Administration, The City University of New York. At COCC since 2013.

JEREMY GREEN

Campus Administrator, Madras

B.A. in History and Political Science, Vanguard University of Southern California; M.A. in Youth Development, Michigan State University. At COCC Since 2015.

CHRISTA GUNNELL

Human Resources Employment and Benefits Supervisor

B.S. in Business Management, Marylhurst University. At COCC since 2011.

BRIAN GUTIERREZ

Project Coordinator, Title III SIP Grant

B.A. in English Literature, California State University, Sacramento; M.A. in English Literature/Composition and Rhetoric, California State University, Sacramento; Ph.D. in English Literature, University of Washington. At COCC since 2016.

DEBORAH HAGAN

Director of Secondary Programs

B.A. in Journalism, University of Oregon; B.A. in English, Eastern Oregon University; M.A.T., University of Phoenix. At COCC since 1989.

KENNETH HARMON

ITS Engineering Systems Administrator

A.A. Business Administration-Information Technology, Central Oregon Community College. At COCC since 1993.

KRISSA HARRIS

Program Manager, Community Learning

A.A.O.T., Central Oregon Community College; B.S. in Business Administration, Oregon State University; M.B.A., Arizona State University. At COCC since 2011.

TYLER HAYES

Assistant Director of Housing and Residence Life

A.A., North Idaho College; B.S. in Mathematics, San Diego Christian College; M.S. in Academic Advising, Kansas State University, At COCC since 2010.

MALISSA HICE

Financial Aid Advisor

B.S. in Psychology, United States International University; M.S. in Mental Health Counseling, Oregon State University. At COCC since 2011.

BRADY HICKMAN

Financial Aid Technical Analyst

A.A.S. in Computer and Information Systems, Central Oregon Community College. At COCC since 2013.

TINA HOVEKAMP

Director of Library Services

B.A. in English, Aristotelian University, Greece; M.L.S. in Library Science, Kent State University; Ph.D. in Library Science, University of North Carolina, Chapel Hill. At COCC since 1997.

SHELLEY HUCKINS

Payroll Supervisor

A.A. of Applied Science in Accounting Technology, Oregon Institute of Technology; B.S. in Management, Accounting Option, Oregon Institute of Technology. At COCC since 2004.

KEVIN HUGHES

Custodial Supervisor

At COCC Since 2010.

JULIA HUNI

College Now High School Liaison

B.S. in Computer Science, University of Portland; M.A. in National Security Studies, California State University, San Bernardino. At COCC since 2009.

CYNTHIA JEFFREYS

Systems Integrator

A.A.S. in Business Administration Management Information Systems, Central Oregon Community College. At COCC since 1999.

DREW JONES

Assistant Director of Admissions and Records,

Recruitment and Outreach

B.A. in Industrial Organization Psychology, Point Loma Nazarene University; M.Ed. in Counseling and Guidance, Point Loma Nazarene University. At COCC since 2011.

BONNIE JORDAN

Academic Advisor

B.A. in Communication, Southern Oregon University. At COCC since 2011.

NANCY E. JUMPER

Program Manager, Continuing Education

B.S. in Communications, Southern Oregon State College. At COCC since 1997.

DIANA KALANQUIN

Academic Advisor, Allied Health

A.A., Central Oregon Community College; B.S. in Psychology, University of Oregon. At COCC since 2009.

KAREN KJEMHUS-SPAHR

Accountant, COCC Foundation

B.S. in Business Administration, Oregon State University. At COCC from 2005 to 2007 and since 2014.

RACHEL KNOX

Program Manager, Community Learning

B.A. in English/British Literature, Oakland University. At COCC since 2003.

GINGER KORN

Business Systems Programmer

B.A. in Business Administration, Northwest Christian College; A.A. in Computer and Information Systems, Umpqua Community College. At COCC since 2014.

SUZANNE KRISTENSEN

Campus Administrator, Prineville

B.A. in Psychology, Pacific University. At COCC since 2011.

SEAN LADD

Buildings Maintenance Supervisor

B.A in Construction Management, California State University, Sacramento. At COCC Since 2017.

GLENDA L. LANTIS

Director of Continuing Education

B.S. in Home Economics Education, Oregon State University; M.S. in Family Studies, Oregon State University. At COCC since 2003.

TAMARA MARNELL

Integrated Library Systems (ILS) & Discovery Services Librarian

B.S. in Biology, Indiana University, M.L.S., Indiana University. At COCC since 2016.

JESSIE MATSUMURA

Senior MIS Analyst Programmer

A.A. in General Education, Monterey Peninsula College; B.S. in Business Administration, California Polytechnic State University. At COCC since 2005.

DARREN McCREA

Technology Project Manager

A.A. in Business, Orange Coast Community College; B.A. in English, California State University. At COCC since 2011.

AIMEE METCALF

Assistant Director of College Relations

B.A. in Political Science, Pacific University. At COCC since 1999.

CHRISTINA MILLS

Student Module Manager/Analyst

A.A.S. in Computer and Information Systems, Central Oregon Community College. At COCC since 2004.

KEVIN MULTOP

Director of Student Financial Aid

B.S. in Humanities, Western Baptist College; M.C.S. in Theology, Regent College, Vancouver, BC. At COCC since 2001.

MICHAEL MURPHY

Director of eLearning and Academic Technology

B.S. in Business Administration and Organizational Development, Eastern Mennonite University; M.A. in Secondary Language, Marshall University; Ed.S. in Curriculum and Instruction, Marshall University; Ed.D. in Education (Instructional Technology), Marshall University. At COCC since 2017.

JANET NARUM

Director of Corrections Education at

Deer Ridge Correctional Institution

B.A. in English, Washington State University; M.S. in Administration of Justice and Security, University of Phoenix. At COCC since 2013.

STEPHEN NEWCOMBE

Operations Manager, Continuing Education

B.S. in Business Management, Oregon State University. At COCC since 2009.

BRITTANY NICHOLS

Development Officer, COCC Foundation

B.S. in Business Administration, University of Oregon. At COCC since 2012.

JUAN OLMEDA-CHAVEZ

Senior Systems Administrator, Account and Team Support Specialist

A.S. in Accounting, North Idaho College; A.A. in Business Administration, North Idaho College; A.A.S. in Computer and Information Systems, Central Oregon Community College. At COCC Since 2011.

LEON PANTENBURG

Student Newspaper Advisor

B.A. in Journalism and Communications, Iowa State University. At COCC since 2011.

RONALD S. PARADIS

Executive Director of College Relations

B.S. in Journalism, University of Oregon; M.B.A., Plymouth State College. At COCC since 1991.

LESLIE PARISI

Academic Advisor, Pre-Nursing

B.A. in English, California State University; M.A. in English, California State University; M.Ed. in Higher Education Administration, Northeastern University. At COCC since 2011.

FRANK PAYNE

Assistant Director of the Bookstore

Certificate of Industrial Video Production, Portland Community College. At COCC since 2013.

BRYNN E. PIERCE

Director of Institutional Effectiveness

B.S. in Biology, Oregon State University; M.P.H., The George Washington University School of Public Health and Health Services. At COCC since 2001.

STEPHEN PITMAN

Capital Project Manager

B.S. in Civil Engineering, Oregon State University; M.S. in Engineering, The University of Texas at Austin. At COCC since 2016.

KERI PODELL

Academic Advisor

A.A. in General Studies, Central Oregon Community College; B.S. in Management, Linfield College. At COCC since 2011.

TINA REDD

Campus Director, Redmond

B.S. in Communications/Drama, University of Missouri; M.A. in English Literature and Composition, Southern Illinois University; Ph.D. in Theatre History and Criticism, University of Washington. At COCC since 2008.

BARRY ROGERS

Senior Web Developer

AIX System Administrator Certified and IBM TCP/IP Networking Certified. At COCC since 2012.

KRISTINE ROSHAU

Instructional Technical Systems Specialist/Trainer

B.A. in English, Concordia University; M.A. in Library and Information Science, University of Washington. At COCC since 2013.

DIANE ROSS

Assistant Director of Human Resources and EEO/AA/Title IX Officer

B.S. in Psychology, Northern Arizona University; M.A. in Human Resources Management, University of Phoenix. At COCC since 2015.

KAREN ROTH

Director of Multicultural Activities

B.S. in Math, University of Wisconsin; M.A. in Guidance and Counseling, University of Wisconsin. At COCC since 2008.

JAMIE ROUGEUX

Coordinator of Services for Students with Disabilities

B.A. in Communication, Bridgewater State University; M.A. in Education, Johnson State College. At COCC since 2016.

NANNETTE (LYNN) ROY

Lead Business Systems Programmer

Computer Science courses, West Valley Junior College. At COCC since 2011.

EVELIA SANDOVAL

Latino Student Program Coordinator

B.S. in Biology, Washington State University; M.Ed. in Higher Education Administration, University of Kansas. At COCC since 2010.

EDWARD SEA

Director of Application and Web System Development

B.S. in Industrial Technology, Bemidji State University; B.S. in Computer Science, Oregon State University. At COCC since 2010.

JENNIFER (JJ) SHEW

HRIS Business Module Manager

B.A. in Business Management, Western Washington University. At COCC since 2014.

KELLIE L. SMITH

Director of Tutoring and Testing Center

B.S. in Political Science, Oregon State University; M.A. in History, Northern Arizona University. At COCC since 1997.

LAYLA SOLAR

Assistant Director of Admissions and Records

A.G.S., Central Oregon Community College; B.S. in Human Development and Family Sciences, Oregon State University. At COCC since 2010.

BREANA SYLWESTER

Assistant Director of Financial Aid

A.A. in General Studies, Central Oregon Community College; B.S. in Psychology, University of Oregon; M.B.A., Concordia University. At COCC from 2000 to 2003 and since 2008.

SILAS TOWNE

Supervisor of Science Lab Technicians and Tutors

B.S. in Chemistry, George Fox University; M.S. in Chemistry, University of Oregon; M.E. in Secondary Education, Grand Canyon University. At COCC since 2012.

VICKERY VILES

Director of Curriculum and Assessment

B.A in Art History, Mt. Holyoke College; Ed.M. in Adult Education, Oregon State University. At COCC since 1989.

JOSEPH VIOLA

Director of Campus Services

B.S. in Business, University of Connecticut. At COCC since 2008.

CHRISTINE WALKER

Latino College Preparation Program Coordinator

B.S. in Tourism and Outdoor Leadership, Oregon State University. At COCC since 2015.

COURTNEY WHETSTINE

Director of Admissions and Registrar

B.A. in Psychology, Humboldt State University; M.S. in Educational Counseling, National University. At COCC since 2012.

ADRIAN WHITE

Accountant

B.A. in Accounting, Alaska Pacific University. At COCC Since 2014.

JAMES W. WILCOX

Business Development Center, Counselor

A.A., West Shore Community College; B.S. in Business Administration, Portland State University; M.B.A., Portland State University. At COCC since 1998.

BETH WRIGHT

Placement Coordinator

A.A.O.T., Central Oregon Community College. At COCC since 2008.

ADMINISTRATOR EMERITUS

DAVID D. BILYEU

College Librarian

B.A. in Philosophy, University of California, Santa Cruz; M.L.S. in Library Science, Syracuse University. At COCC from 1993 to 2013.

RIC BUCKLES

Director of Human Resources

A.A., Danville Area Community College; B.S. Liberal Arts and Sciences, Psychology, University of Illinois. At COCC from 1998 to 2013.

HELEN PRUITT

Registrar

A.A. in Liberal Studies, Mt. San Antonio College; B.A. in Liberal Studies, Oregon State University. At COCC from 1982 to 2003.

SARA PAULSON

Director of Information Technology

B.S. in Mathematics, University of Northern Iowa. At COCC from 1983 to 2004.

MICHAEL SMITH

Director of Student Life

B.A. in Recreation Administration, Chico State College. At COCC from 1982 to 2007 and 2012 to 2013.

GENE R. ZINKGRAF

Director of Campus Services

B.A. in Business, Western State College. At COCC from 1987 to 2012.

ADMINISTRATOR OF THE YEAR

Central Oregon Community College recognizes one Administrative employee each year for outstanding service to COCC and its students. Those who have been honored are:

2014 Vickery Viles, Director of CAP Center

2015 Seana Barry, Assistant Director of Admissions and Records

2016 Sharla Andresen, Director of Contracts and Risk Management

2017 Christina Mills, Student Module Manager/Analyst

CONFIDENTIAL/SUPERVISORY STAFF

Jennifer Peters, Administrative Assistant II Vice President for Administration

Julie Smith, Executive Secretary President's Office and COCC Board of Directors

Eric Weller, Administrative Assistant Vice President of Instruction

CLASSIFIED STAFF

Lindsey Aavang, Admissions and Records

Alma Aguiar, Library

Linda Andrus, Business Administration

Brad Barnett, Campus Services

Otis Bass, Library

Barbara Bellinger, Admissions and Records

Jennifer Beltis, Print/Mail Services

Nancy Blair-Madison, Disability Services

Terri Botts, Office of Dean of Students

Daura Bowman, Nursing

Renee Brazeau-Asher, Mathematics

Cheryl Britton, DRCI

Albert Brooks, Jr., Campus Services

William Bryan, Campus Services

Yan Yan Buduan, Bookstore & Copy Center

Scott Burge, Information Technology Services

Roxanne Burger-Wilson, Bookstore

Harley Burnett, Campus Services

Lisa Camp, Culinary

William Campbell, Campus Services

Anna Cherry, HIT

Lisa Chitwood, Bookstore

Dana Christensen, Instructional Deans

Marcie Clark, College Relations

Katharine Condon, Small Business Development

Deena Cook, Cascade Culinary Institute

Tracy Crockett, Redmond Campus

Stephen Craig, Campus Public Safety

Ken Davis, Maintenance

Felipe Delatorre, Admissions and Records

Kate Donahue, Residence Hall

David Donovan, Campus Services

Julia Dumas, Bookstore

Kristi Dunlap, Social Science

Sara Evans, World Languages and Cultures

Andrew Fegette, Financial Aid

Jo Fief, College Relations

Anne Fineran, Fiscal Services

Janis Fisher, Fiscal Services

Emily Fitch, Student Life

Brian Flener, Campus Services

Susan Galecki, Institutional Effectiveness

Caitlyn Gardner, Campus Services

Patricia Givens, Library

Judith Gonzalez, Adult Basic Skills

Miu Green, Redmond Campus

Matthew Greenleaf, Health and Human Performance

Mary Beth Hamilton, Library

Derwyn Hanney, Campus Services

Colette Hansen, Fine Arts

Lynne Hart, Library

Denise Hatch, Admissions and Records

Karl Heeren, Campus Services

Eugen Helmbrecht, Information Technology Services

Lydia Hernandez, Health and Human Performance

Sean Hoxie, Campus Services

Steven Huddleston, Print/Mail Services

Yasuko Jackson, Academic Computing Support

Jessica Johnson, Admissions and Records

Steven Johnston, Campus Services

Lloyd Johnston, Campus Services

Jennifer Jordan, Computer and Information Systems

Mark Johnson, College Relations

Steven Julian, Campus Services

Johnathan Kennedy, Campus Services

Laurel Kent, Information Technology Services Cady-Mae Koon, Information Technology Services

Justin Koon, Information Technology Services

Dianne Kristiansen, Humanities

Melinda Kruse, Fiscal Services

Kim Landin, Continuing Education

Deborah Lehto, Financial Aid

Tina Leslie, Tutoring and Testing

Caitlin Lewis, Science

Samantha Loza, CAP Center

John Lutje, Campus Services

Stella Mackey, Admissions and Records

Sonya Madrid-Sotelo, Campus Services

Penelope Mann, Bookstore Redmond

Lionel Martinez, Campus Services

Jenna Mattox, Admissions and Records

Christopher March, Campus Public Safety

Trina McLaughlin, Science

Annalysia Mewes, Madras Campus

Raquel Meyers, Allied Health

Galit Miller, Aviation

Kevin Miller, Natural and Industrial Resources

Melissa Monette, Admissions and Records

Ryan Mullins, Campus Services

Adam Neider, Campus Public Safety

Brian Nelson, Redmond Campus

Mary Nelson, Instructional Dean's Office

Courtney Nolta, Admissions and Records Rebecca Oprish, Human Resources

Catherine Perez, Science

Lorina Perez, Campus Services

Mindalay Perez, Admissions and Records

Susan Pierce, Financial Aid

Cheryl Pitkin, Health and Human Performance

Michael Perry, MATC

Brandon Porter, Campus Public Safety

Kevin Quick, Campus Services

Marla Railey, Prineville Campus

Tom Reed, Campus Services

Vallard Reed, Campus Services

Darrin Reynolds, Campus Services Katie Ritter, CAP Center

Linda Robson, Continuing Education

Faculty, Administration & Staff

Vigil (Joe) Romero, Campus Services J.C. Root, Information Technology Services Michelle Ruebush, Natural & Industrial Resources Christin Sands, Campus Services Matthew Schultz, Campus Public Safety JoAnn Seeley, Copy Center and Mail Services Linda Skladal, Library Emily Smith, Science Arin Starnes, Campus Services Craig Starnes, Campus Services Jared Starnes, Campus Services Cristi Steiert, Continuing Education Leilani (Lani) Sykes, Redmond Campus Lora Szaraniec, College Relations Gail Tague, Bookstore Ramiro Terrazas, Campus Services Tracy Thille, Science - Redmond Campus Bruce Thompson, Information Technology Services Krista Timm, Financial Aid Jennifer Timm, Fiscal Services Christopher Tippets, Campus Services Julie Townsend, Financial Aid Moises Viramontes, Campus Services Erica Waldbillig, Office of the CFO Heidi Weaver, Human Resources Kirsteen Wolf, Campus Services Susan Wood, Continuing Education Erika Wooler, Instruction

CLASSIFIED EMPLOYEE OF THE YEAR

Central Oregon Community College recognizes one Classified Association employee each year for outstanding service to COCC and its students. Those who have been honored are:

2006 DeAnna Metcalf, Enrollment Services

2007 Jan Fisher, Fiscal Services

2008 Sallie Wetherbee, Social Sciences

2009 Michele DeSilva, Library

2010 Bonnie Steiner, Campus Services

2011 Renee Brazeau-Asher, Math/Computer Science

2012 Dianne Reingold, Enrollment Services

2013 Clifford Reid, Campus Services

2014 Marcia McCullough, Information Technology Services

2015 Ken Harmon, Information Technology Services

2016 Elaine Simay-Barton, Administrative Assistant for Science

2017 Lydia Hernandez, Administrative Assistant, Health and Human Performance













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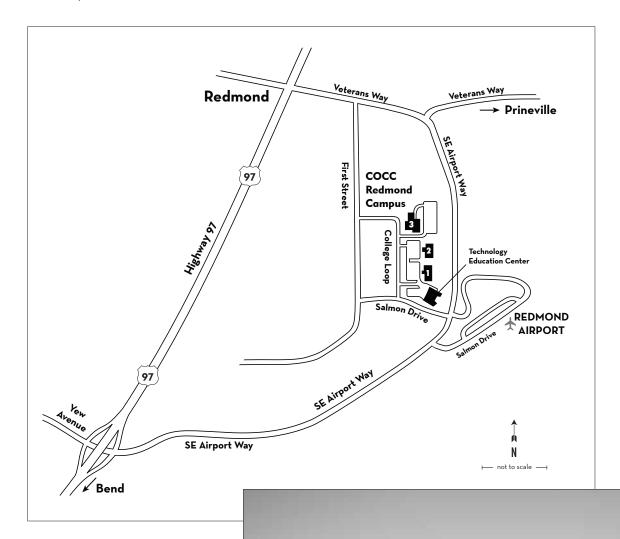
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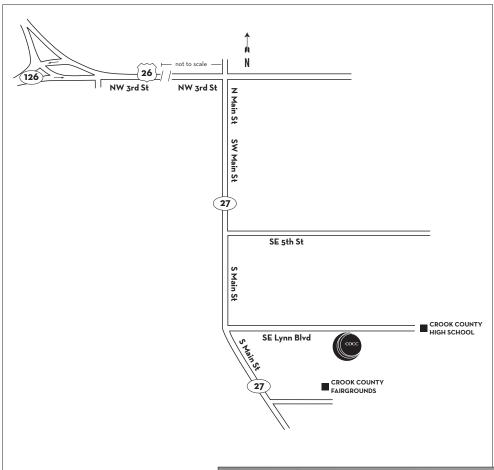
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REDMOND CAMPUS 2030 SE College Loop Redmond, Oregon 97756 cocc.edu/redmond



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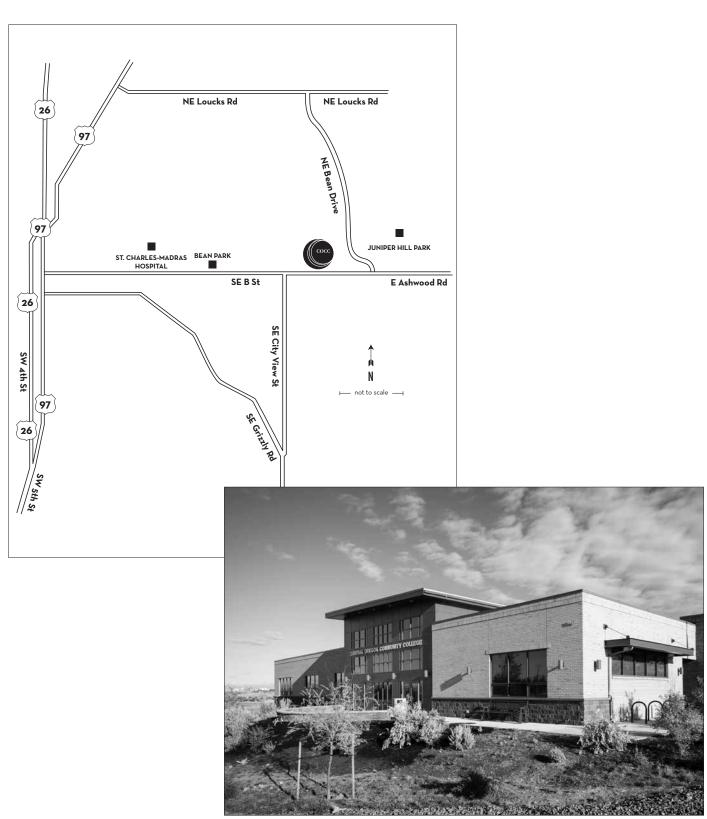
CROOK COUNTY OPEN CAMPUS 510 SE Lynn Blvd Prineville, Oregon 97754 cocc.edu/prineville





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MADRAS CAMPUS 1170 E Ashwood Road Madras, Oregon 97741 cocc.edu/madras

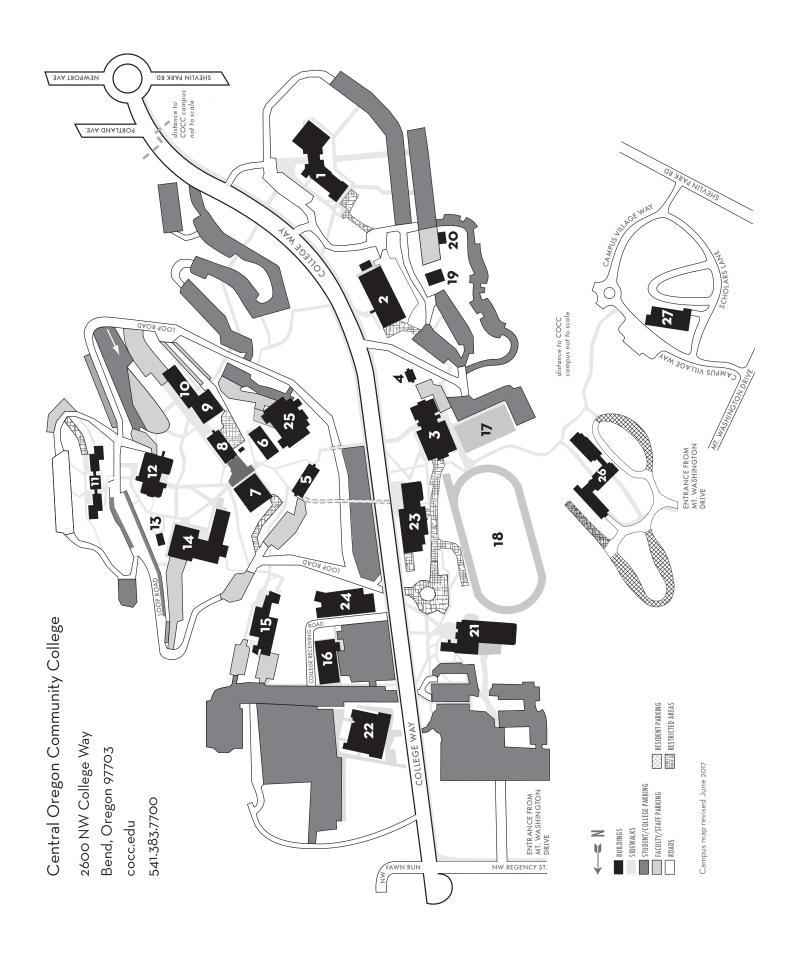


BEND CAMPUS BUILDING DIRECTORY

X Y

Boyle Education Center	8. Jefferson	20. Campus Services	PHONE DIRECTORY	
Admissions	Classrooms/Faculty Offices	Facility Scheduling		
COCC Foundation	9. Pinckney Center	21. Barber Library	Campus Switchboard 541.383.7700	33.7700
Cashier	Art Gallery	Classrooms/Faculty Offices	-	
Christiansen Board Room	10. Pence	Computer Lab	Adult Basic Skills/GED 541 50	541 504 2950
College Relations	Classroom/Faculty Offices	eLearning		77.7.00
Disability Services	Fine and Performing Arts	Louis B. (Bart) Queary Room	ASCUCE Student Government 341.383.7393	55./5%
Enrollment Services	Photography Lab	Max Merrill Conference Room	Broadside Student Newspaper 541.383.7252	83.7252
Financial Aid	11 Iminor Holl	Oregon Rooms	CAP Center	
Grants		Tutoring & Testing Center	(Career services,	
Information Office	Business Administration	22. Cascades Hall	Academic advising and	
Institutional Effectiveness	Classrooms/Eaculty Office	CAP Center		541 383 7200
President s Office	Mathematics	Forestry		7 7 7 0 0
Campus) Fublic Salety Dogistration/Studont Docords	Grandview Math Tutoring Lab	Paramedicine	dls	041.383.774
Application Administration	13. Ochoco Annex	University Programs	COCC Foundation 541.38	541.383.7225
	14 Ochoco	23. Coats Campus Center	Community Learning541.38	541.383.7270
Automotive	Classrooms/Faculty Offices	Dean of Student &	Dean of Student and	
CAD/GIS	Humanities	Enrollment Services	Enrollment Services Office 541.38	541.383.7211
Fire Science	15. Pioneer	oug Jerwice	Enrollment Services 541.38	541.383.7500
Mazama	Classrooms/Faculty Offices	Multicultural Center		541 383 7260
Classrooms/Faculty Offices	Computer and	Notive American Program		1 1 00
Dance Studio	Information Systems	Stident Government	Fine Arts and Communication 541.38	541.383.7510
Fitness Center	Computer Lab	Student Life Office	Human Resources	
Sympasium	Information Technology	The Broadside student newspaper	(personnel/employment) 541.38	541.383.7216
Jzgr Health & Human Performance	Health Information Technology	Wille Hall		541 383 7596
	Hitchcock Auditorium			0 0 0
rnysiology Lab	16. Newherry	24. Health Careers Center	Latino Student Program 541.31	541.318.3720
Metolius		Allied Health	Library 541.38	541.383.7560
Adult Basic Skills Office	Chief Financial Officer	Classrooms/Faculty Offices	ctivities	541 383 7412
Classrooms		John Overbay Conterence Room		E 41 210 2702
Fiscal Services	Risk Management	Nursing	am	10.3/02
Instructional Deans	Conv. Center	25. Science Center	President's Office 541.38	541.383.7201
VP for Instruction	Himon Resources	Classrooms/Faculty Offices	(Campus) Public Safety541.38	541.383.7272
Des Chutes	Moil Services	Science		
Classrooms/Faculty Offices	Povroll	26. Wickiup Residence Hall		7502
Modor	() · () · () · () · () · () · () · () ·	77 Sapar Culing was		041.000./000
Classrooms/Faculty Offices	17. Iennis Courts		Spanish language phone 541.31	541.318.3723
Social Science	I 8. Irack		Student Life Office 541.38	541.383.7590
William Robinson Room	19. Physical Plant		Tutoring and Testing Center 541.38	541.383.7539
World Languages & Cultures	Custodial Services			
))	Maintenance			

.. 541.383.7225 .. 541.383.7270





Addendum: Below is an update to the reference of the Health Information Technology Insurance Certificate originally published on page 34-35 In the 2017-18 Catalog. The page reference 109 has been moved to the "One-Year Certificate" column of the grid.

TRANSFER AND CAREER & TECHNICAL EDUCATION (CTE) PROGRAMS AT A GLANCE

Here is a quick-reference listing of the college transfer and Career and Technical Education (CTE) programs (certificates and Associate of Applied Science degrees) available at Central Oregon Community College and their associated pages with additional information.

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World Languages					161
		-			





PROGRAM DESCRIPTIONS

Central Oregon Community College 2017–2018

PROGRAM DESCRIPTIONS

HEALTH INFORMATION TECHNOLOGY

Certificate of Completion 37-85 credits

Addendum: Below is an update to the Health Information Technology Insurance Certificate title originally published on page 109 in the 2017-18 Catalog. The title of the certificate has been updated to "Certificate of Completion."

CERTIFICATE AS AWARDED ON TRANSCRIPT

Certificate of Completion in:

Insurance

Medical Office Specialist

Medical Billing Specialist

Coding Competency

PROGRAM DESCRIPTION

The Health Information Technology program provides a careerladder approach to the health information management profession. Students proceed up the ladder as follows:

- When students have completed the first two academic quarters of HIT curriculum, they receive an Insurance Certificate.
- At the end of the first three quarters students are awarded a Medical Office Specialist Certificate.
- After completing four academic quarters (first year HIT curriculum, Directed Practice I plus Fall quarter of year two), students earn a Medical Billing Specialist Certificate.
- Adding two additional coding courses (HIT 283, HIT 285) and passing a proficiency exam qualifies students for a Medical Coding Competency Certificate.
- Upon completion of all HIT curriculum, students earn an Associate of Applied Science degree in Health Information Technology and are eligible to sit for the Registered Health Information Technician (RHIT) national credential examination.

Since 2003, the COCC HIT Program has maintained a pass rate of 100% for students taking the RHIT exam within one year of graduation.

Students have the freedom to exit and re-enter the program after the first year. The program includes preparation in technical coursework, human relations, communications, mathematics and computer technology.

It is strongly recommended that students obtain competency in the following areas before entering the health information curriculum:

- Keyboarding: 40 WPM minimum
- Study skills
- Writing skills
- Reading with emphasis on critical thinking and analytical skills
- Computer/technology skills (essential)

The Health Information Technology program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). It is one of two accredited health information programs in the state of Oregon.

Prior to enrolling in HIT 103, students must pass CIS 120, AH 111 and WR 121 with a grade of "C" or better. Students entering the HIT program are required to have a criminal history check prior to enrolling in

HIT 103. A student may be prevented from entering the program if there is a felony conviction on their record.

The following is the suggested course sequence for students able to attend full time. Students are encouraged to consult their academic advisor if they have transfer credits and/or are not able to attend full time in order to determine an appropriate course schedule. Additionally, students should reference the course descriptions to

determine required lab hours. All HIT courses must be completed with a "C" (75%) grade or better.

INSURANCE

Certificate of Completion – 37 credits

(Two quarters of HIT curriculum to complete if attending full time)

The following is a suggested course of study for students interested in pursuing a certificate in Insurance and will depend on course availability.

Prerequisites		
AH 111	Medical Terminology I	3
CIS 120	Computer Concepts	4
WR 121	Academic Composition	4
Fall term		
AH 112	Medical Terminology II	3
BI 231	Human Anatomy and Physiology I	4
HIT 103	Health Information Systems and Procedures	5
MTH 031	Health Care Math	3
Winter term		
BI 232	Human Anatomy and Physiology II	4
HIT 104	Health Data Content and Structure	5
HIT 180	HIPAA Management	2

MEDICAL OFFICE SPECIALIST

Complete Insurance Certificate

Certificate of Completion – 56 credits

(Three quarters of HIT curriculum to complete if attending full time)

The following is a suggested course of study for students interested in pursuing a certificate in Medical Office Specialist and will depend on course availability.

Winter term

3F Z 10	interpersonal Communication	3-4
or BA 285*	Business Human Relations	
or PSY 101*	Applied Psychology	
* Note: not req	uired for Insurance Certificate.	
Spring term		
BI 233	Human Anatomy and Physiology III	4
HIT 131A	Document Management and Technology	3
HIT 182	Introduction to Medical Coding	4
HIT 184	Advanced Pathophysiology	5

Fall term (second year curriculum)

MEDICAL BILLING SPECIALIST

Certificate of Completion – 75 credits

(Five quarters of HIT curriculum to complete if attending full time)

The following is a suggested course of study for students interested in pursuing a certificate in Medical Billing Specialist and will depend on course availability.

Complete Me	edical Office Specialist Certificate	56
HIT 193	Directed Practice I	2
Fall term		
HIT 201	Legal Aspects of Medical Records	3
HIT 205	Introduction to Medical Record Analysis	3
HIT 284	Classification and Reimbursement Systems	4
HIT 296	Ambulatory Data Systems	3
SP 111	Fundamentals of Public Speaking	4

Addendum — cocc.edu

HEALTH INFORMATION TECHNOLOGY (continued)

Certificate of Completion 37-85 credits

CODING COMPETENCY

Certificate of Completion – 85 credits

(Seven quarters of HIT curriculum to complete if attending full time)

The following is a suggested course of study for students interested in pursuing a certificate in Coding Competency and will depend on course availability.

course availabi Complete Med	lity. ical Billing Specialist Certificate	75
Winter term HIT 283	Coding Classifications	6
Spring term HIT 285	Advanced Coding Classification	4
Pass CCA Profi	ciency Exam	

cocc.edu — Addendum

Addendum: Aviation – Professional Pilot Airplane contains updates to the program description, materials cost description, entrance requirements description, performance standards and lab credits.

AVIATION – PROFESSIONAL PILOT AIRPLANE

Associate of Applied Science (AAS) Degree

PROGRAM DESCRIPTION

The Aviation program trains individuals to work as professional pilots in the air transportation industry. The opportunities in the pilot career field are fascinating and many, and include piloting a commercial airliner, flying for a corporation providing a service to the leaders of the company, flying as a charter pilot taking passengers point-to-point, providing flight instruction to new pilot students and operating autonomous aerial vehicles.

Students in the airplane track will be eligible to earn the FAA Private Pilot and Commercial Pilot certificates (single and multiengine), the Instrument rating, the Multiengine rating and Certified Flight Instructor certificate/ratings (CFI, CFII, MEI). Training will be conducted under Federal Aviation Regulations Part 61.

PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

Material Costs

All fees for the term must be paid in full by 5 p.m. on Friday of the second week of the term. Unless under unusual, nonacademic and documented circumstances simulator fees are non-refundable.

Used portions of flight fees are non-refundable.

Pilot headset, approximately \$350.

Flight Labs: Authorized Aircraft and Hourly Rates: Airplane Aircraft: C-172, C-182, Seminole, Bonanza, Baron, Decathlon, FTD

AV222A Airplane Flight Lab, Private Pilot (AV110)

Cessna 172

16 hrs. Pre/Post Instruction @ \$35 = \$560

20 hrs. Dual flight @ \$200 = \$4,000

2.25 hrs. Dual FTD @ \$90 = \$202.50

Total = \$4,762.50

Total Flight Hrs. =22.25 hrs. (1 credit)

AV222B Airplane Flight Lab, Private Pilot (AV110)

Cessna 172

14 hrs. Pre/Post Instruction @ \$35 = \$490

5 hrs. Dual flight @ \$200 = \$3,000

5 hrs. Solo flight @ \$165=\$825

3 hrs. Dual FTD @ \$90 = \$270

Written Exam: \$160 DPE Fee: \$450

Total = \$5,195.00

Total Flight Hrs. =23 hrs. (1 credit)

```
AV222C Airplane Flight Lab, Private Pilot (AV110)
 Cessna 172
 11 hrs. Pre/Post Instruction @ $35 = $385
 10 hrs. Dual flight @ $200 = $2,000
 10 hrs. Solo flight @ $165=$1,650
 Total = $4,035.00
 Total Flight Hrs. =20 hrs. (1 credit)
AV222D Airplane Flight Lab, Instrument Pilot (AV210)
 Cessna 172
 13 hrs. Pre/Post Instruction @ $35 = $455
 24 hrs. Dual flight @ $200 = $4,800
 10 hrs. Dual FTD @ $90 = $900
 Written Exam: $160
 DPE Fee: $450
 Total = $6,765.00
 Total Flight Hrs. =34 hrs. (1 credit)
AV222E Airplane Flight Lab, Instrument Pilot (AV210)
 Cessna 172
 13 hrs. Pre/Post Instruction @ $35 = $455
 24 hrs. Dual flight @ $200 = $4,800
 12 hrs. Dual FTD @ $90 = $1,080
 Total = $6,335.00
 Total Flight Hrs. =36 hrs. (1 credit)
AV222F Airplane Flight Lab, Commercial Pilot (AV220)
 Cessna 172
 12 hrs. Pre/Post Instruction @ $35 = $420
 28 hrs. Dual flight @ $200 = $5,600
 25 hrs. Solo flight @ $165=$4,125
 12 hrs. Dual FTD @ $90 = $1,080
 Total = $11,225.00
 Total Flight Hrs. =65 hrs. (1 credit)
AV222G Airplane Flight Lab, Commercial Pilot (AV220)
 Cessna 172, Cessna 182, Bonanza
 22 hrs. Pre/Post Instruction @ $35 = $770
 19 hrs. Dual flight @ $200 = $3,800
 25 hrs, Dual flight @ $260=$6,500
 34 hrs. Solo flight @ $165=$5,610
 12 hrs. Dual FTD @ $90 = $1,080
 Written Exam: $160
 DPE Fee: $450
 Total = $18,370.00
 Total Flight Hrs. =90 hrs. (1 credit)
AV222M Airplane Flight Lab, Commercial Pilot (AV220)
 Decathlon
 14 hrs. Pre/Post Instruction @ $35 = $490
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9 hrs. Dual flight @ \$545.56 = \$4,910 Total = \$5400.00

Total Flight Hrs. =9 hrs. (1 credit)

AV222I Airplane Flight Lab, Certified Flight Instructor (AV250)

Cessna 182, Bonanza

22 hrs. Pre/Post Instruction @ \$35 = \$770

38 hrs, Dual flight @ \$260=\$9,880

Written Exam: \$320 DPE Fee: \$650 Total = \$11,620.00

Total Flight Hrs. =38 hrs. (1 credit)

AV222J Airplane Flight Lab, Certified Flight Instructor (AV250)

Cessna 172

12 hrs. Pre/Post Instruction @ \$35 = \$420

15 hrs. Dual flight @ \$200 = \$3,000

6 hrs. Dual FTD @ \$90 = \$540

Written Exam: \$160 DPE Fee: \$450 Total = \$4,570.00

Total Flight Hrs. =21 hrs. (1 credit)

AV222K Airplane Flight Lab, Multi Engine Pilot (AV230)

Baron, Seminole

10 hrs. Pre/Post Instruction @ \$35 = \$35

20 hrs. Dual flight @ \$385 = \$7,700

DPE Fee: \$450 Total = \$8,500.00

Total Flight Hrs. =20 hrs. (1 credit)

AV222H Airplane Flight Lab, Multi Engine Pilot (AV230)

Baron, Seminole

16 hrs. Pre/Post Instruction @ \$35 = \$560

22 hrs. Dual flight @ \$385 = \$8,470

2 hrs. Dual FTD @ \$90 = \$180

DPE Fee: \$450 Total = \$9,660.00

Total Flight Hrs. =24 hrs. (1 credit)

Enrollment Fees

None

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirements None

Other Entrance Requirements

Required:

Students who enroll in this course of study must have a valid FAA Medical Certificate and a student pilot certificate. A doctor designated by the FAA as an Aviation Medical Examiner

must conduct the medical exam. Incoming students in the professional pilot program are encouraged to obtain at least a second-class medical certificate prior to entry into the program to ensure that they can eventually pursue a career in commercial aviation. The medical application form will ask the applicant's prior medical history, prior DUI/DUII, any record of alcohol or substance abuse and any history of non-traffic misdemeanors or felonies.

PROGRAM PERFORMANCE STANDARDS

Academic Requirements

Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.

Students must maintain a minimum 2.0 GPA while enrolled in the program. Students who do not maintain this standard and desire to continue the program, require completion of a training plan approved by their COCC advisor.

All courses in the program must be completed with a grade of C or higher.

Additional Requirements

Students must be prepared to fly three to four days per week in order to maintain the rigorous schedule that is required in order to complete the flight training in a timely manner.

National/state legal eligibility or unique requirements for licensure and/or entry into occupation, or advancement in the occupation

Pilots are credentialed by the Federal Aviation Administration (FAA) and must meet the requirements of the Federal Aviation Regulations to qualify for the pilot certificates/ratings.

FAA medical certificate required prior to beginning flight training.

Student Pilot certificate required prior to beginning flight training.

The FAA requires applicants pass an airman knowledge exam for pilot certificates/ratings. A third-party company administers those exams and a \$160 testing fee is required.

Pilot certificates/ratings are issued after an applicant passes a practical exam (ground oral exam and flight check) administered by a Designated Pilot Examiner (DPE) who will charge a fee for that exam.

Background checks and random drug screening can be expected in any aviation industry position.

PROGRAM COURSE REQUIREMENTS

Core Cour	ses	
AV 101	Introduction to Aviation ¹	3
AV 104	Introduction to Aircraft Systems ¹	4
AV 108	Meteorology I ¹	4
AV 110	Private Pilot - Airplane ²	5
AV 112	Technically Advanced Aircraft	1
AV 112A	Tech Advanced Aircraft Lab	1
AV 150	Aerodynamics ¹	4
AV 200	Aviation Law ¹	3
or AV 201	Airport Management	
AV 204	Advanced Aircraft Systems ¹	4
AV 208	Meteorology II ¹	4
AV 210	Instrument - Airplane4	5
AV 220	Commercial Pilot-Airplane ⁴	4

AV 230 Multiengine Pilot ⁴	2	
AV 235 Human Factors ¹	4	
AV 246 Aviation Safety ¹	3	
AV 250 CFI - Airplane ⁴	5	
AV 222A Airplane Flight Lab		Airplane Flight Labs ³ 12
AV 222A Airplane Flight Lab AV 222B Airplane Flight Lab		
AV 222C Airplane Flight Lab		
AV 2220 Airplane Flight Lab AV 222D Airplane Flight Lab		
AV 222B Airplane Flight Lab AV 222E Airplane Flight Lab		
AV 222F Airplane Flight Lab		
AV 222F Airplane Flight Lab AV 222G Airplane Flight Lab		
AV 222G Airplane Flight Lab AV 222H Airplane Flight Lab		
1 3		
1 3		
AV 222K Airplane Flight Lab		
AV 222M Airplane Flight Lab		
Other Required Courses		
BA 206 Management Fundamentals I	4	
or BA 101 Intro to Business		
SP 111 Fundamentals of Public Speaking	3-4	
or SP 218 Interpersonal Communication		
or SP 219 Small Group Communication		
CIS 120 Computer Concepts (Computer Co	ompetency Test)	0-4
Discipline Studies Courses	8	
MTH 085 Technical Mathematics I	4	
or MTH 111 or higher		
WR 121 Academic Composition	4	

Total Credits 90-95

ADVISING NOTES

¹ May be taken in any order, in any term and may be taken before, with or after the flight courses.

² Must be taken as the first flight course. May be taken any term.

³ Flight fees, simulator fees and FAA testing fees are required in addition to normal tuition for all flight labs and must be paid by the end of the second week of the term. Used portions of flight fees are not refundable. Contact the Aviation program director, 541.318.3702, for more information.

⁴ The Instrument Airplane course AV 210, Commercial Airplane course AV220 and Certified Flight Instructor course AV 250 shall be completed before the Multiengine Pilot course AV230 can be taken.

Airplane students in particular should plan to transfer to an institution granting bachelor's degrees to enhance employment opportunities. Therefore, the program works with several universities for transfer options. The AAS degree is designed to train the student as a professional pilot. Universities that have an aviation bachelor's degree (Eastern Kentucky University, Embry-Riddle Aeronautical University, etc.) will often accept the majority of these credits toward their degree.

Those wishing to transfer to Oregon Institute of Technology should use the Associate of Science (AS) degree program. For information about transfer requirements at other institutions, contact the Aviation program director, 541.318.3702.

Addendum: Aviation – Professional Pilot Helicopter contains updates to the program description, materials cost description, entrance requirements description, and performance standards.

AVIATION – PROFESSIONAL PILOT HELICOPTER

Associate of Applied Science (AAS) Degree

PROGRAM DESCRIPTION

The Aviation program trains individuals to work as professional pilots in the air transportation industry. Students in the helicopter track will be eligible to earn the FAA Private Pilot and Commercial Pilot certificates, the Instrument rating and Certified Flight Instructor certificate/rating (CFI, CFII). Training will be conducted under Federal Aviation Regulations Part 61

PROGRAM COSTS

(beyond standard tuition/fees and textbooks)

Material Costs

All fees for the term must be paid in full by 5 p.m. on Friday of the second week of the term. Unless under unusual, nonacademic and documented circumstances simulator fees are non-refundable.

Used portions of flight fees are non-refundable.

Pilot headset, approximately \$350.

Flight Labs: Authorized Aircraft and Hourly Rates:

Helicopter Series I Aircraft: Robinson R22, R44, B206, FTD AV 227A Helicopter Flight Lab, Private Pilot (AV115) Robinson R22
15 hrs. Pre/Post Instruction @ \$35 = \$525
24 hrs. Dual flight @ \$360 = \$8,640
3 hrs. Dual FTD @ \$195 = \$585
Total = \$9,750.00
Total Flight Hrs. =27 hrs. (1 credit)

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AV 227B Helicopter Flight Lab, Private Pilot (AV115)
 Robinson R22
 16 hrs. Pre/Post Instruction @ $35 = $560
 24 hrs. Dual flight @ $360 = $8,640
 2 hrs. Dual FTD @ $195 = $390
 Total = $9,590.00
 Total Flight Hrs. =26 hrs. (1 credit)
AV 227C Helicopter Flight Lab, Private Pilot (AV115)
 Robinson R22
 16 hrs. Pre/Post Instruction @ $35 = $560
 14 hrs. Dual flight @ $360 = $5,040
 10 hrs. Solo flight @ $360 * = $3,600
 2 hrs. Dual FTD @ $195 = $390
 Written Exam Fee = $160
 DPE Fee = $750
 Total = $10,500.00
 Total Flight Hrs. =26 hrs. (1 credit)
 *Supervised Solo- charged at a dual rate due to required presence of a certified flight
 instructor
AV 227D Helicopter Flight Lab, Instrument Pilot (AV215)
 Robinson R44
 20 hrs. Pre/Post Instruction @ $35 = $700
 20 hrs. Dual flight @ $650 = $13,000
 (Dual flight includes 15 hrs Pilot in Command)
 10 hrs. Dual FTD @ $195 = $1,950
 Total = $15.650.00
 Total Flight Hrs. =30 hrs. (1 credit)
AV 227E Helicopter Flight Lab, Instrument Pilot (AV215)
 Robinson R44
 25 hrs. Pre/Post Instruction @ $35 = $875
 15 hrs. Dual flight @ $650 = $9,750
 10 hrs. Dual FTD @ $195 = $1,950
 Written Exam Fee = $160
 DPE Fee = $750
 Total = $13.485.00
 Total Flight Hrs. =25 hrs. (1 credit)
AV 227N Helicopter Flight Lab, Instrument Pilot (AV215)
 Robinson R44
 10 hrs. Pre/Post Instruction @ $35 = $350
 10 hrs. Dual flight @ $760* = $7,600
 NVG Fee = $500
 Total = $8,450.00
 Total Flight Hrs. =10 hrs. (1 credit)
 *Flown in a night vision google compatible helicopter
AV 227F Helicopter Flight Lab, Commercial Pilot (AV225)
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Robinson R22

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18 hrs. Pre/Post Instruction @ $35 = $630
   35 hrs. Dual flight @ $360 = $12,600
   (Dual flight includes 15 hrs Pilot in Command)
   2 hrs. Dual FTD @ $195 = $390
   Total = $13.620.00
   Total Flight Hrs. =37 hrs. (1 credit)
 AV 227G Helicopter Flight Lab, Commercial Pilot (AV225)
   Robinson R22
   18 hrs. Pre/Post Instruction @ $35 = $630
   35 hrs. Dual flight @ $360 = $12,600
   2 hrs. Dual FTD @ $195 = $390
   Written Exam Fee= $160
   DPE Fee= $750
   Total = $14,530.00
   Total Flight Hrs. =37 hrs. (1 credit)
 AV 227H Helicopter Flight Lab, Commercial Pilot (AV225)
   Bell 206
   12 hrs. Pre/Post Instruction @ $35 = $420
   20 hrs. Dual flight @ $935 = $18,700
   Total = $19,120.00
   Total Flight Hrs. =20 hrs. (1 credit)
 AV 227I Helicopter Flight Lab, Certified Flight Instructor (AV255)
   Robinson R22
   53 hrs. Pre/Post Instruction @ $35 = $1,855
   20 hrs. Dual flight @ $360 = $7,200
   2 hrs. Dual FTD @ $195 = $390
   Written Exam Fee = $320
   DPE Fee = $850
   Total = $10,615.00
   Total Flight Hrs. =22 hrs. (1 credit)
 AV 227J Helicopter Flight Lab, Certified Flight Instructor (AV255)
   Robinson R44
   25 hrs. Pre/Post Instruction @ $35 = $875
   10 hrs. Dual flight @ $650 = $6,500
   5 hrs. Dual FTD @ $195 = $975
   Written Exam Fee = $160
   DPE Fee = $750
   Total = $9,260.00
   Total Flight Hrs. =15 hrs. (1 credit)
Series II Aircraft: Robinson R44, B206, FTD
 AV 228A Helicopter Flight Lab, Private Pilot (AV115)
   Robinson R44
   15 hrs. Pre/Post Instruction @ $35 = $525
   24 hrs. Dual flight @ $650 = $15,600
   3 hrs. Dual FTD @ $195 = $585
   Total: $16,710.00
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Total Flight Hrs. =27 hrs. (1 credit)
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AV 228B Helicopter Flight Lab, Private Pilot (AV115)

Robinson R44

16 hrs. Pre/Post Instruction @ \$35 = \$560

24 hrs. Dual flight @ \$650 = \$15,600

2 hrs. Dual FTD @ \$195 = \$390

Total: \$16,550.00

Total Flight Hrs. =26 hrs. (1 credit)

AV 228C Helicopter Flight Lab, Private Pilot (AV115)

Robinson R44

16 hrs. Pre/Post Instruction @ \$35 = \$560

14 hrs. Dual flight @ \$650 = \$9,100

10 hrs, Solo Flight @ \$650 * =\$6,500

2 hrs. Dual FTD @ \$195 = \$390

Written Exam Fee = \$160

DPE Fee = \$750

Total: \$17,460.00

Total Flight Hrs. =26 hrs. (1 credit)

*Supervised Solo- charged at a dual rate due to required presence of a certified flight instructor

AV 228D Helicopter Flight Lab, Instrument Pilot (AV215)

Robinson R44

20 hrs. Pre/Post Instruction @ \$35 = \$700

20 hrs. Dual flight @ \$650 = \$13,000

(Dual flight includes 15 hrs Pilot in Command)

10 hrs. Dual FTD @ \$195 = \$1,950

Total = \$15,650.00

Total Flight Hrs. =30 hrs. (1 credit)

AV 228E Helicopter Flight Lab, Instrument Pilot (AV215)

Robinson R44

25 hrs. Pre/Post Instruction @ \$35 = \$875

15 hrs. Dual flight @ \$650 = \$9,750

10 hrs. Dual FTD @ \$195 = \$1,950

Written Exam Fee = \$160

DPE Fee = \$750

Total = \$13,485.00

Total Flight Hrs. =25 hrs. (1 credit)

AV 228N Helicopter Flight Lab, Instrument Pilot (AV215)

Robinson R44

10 hrs. Pre/Post Instruction @ \$35 = \$350

10 hrs. Dual flight @ \$760* = \$7,600

NVG Fee = \$500

Total = \$8.450.00

Total Flight Hrs. =10 hrs. (1 credit)

^{*} Flown in a night vision google compatible helicopter

AV 228F Helicopter Flight Lab, Commercial Pilot (AV225) Robinson R44 18 hrs. Pre/Post Instruction @ \$35 = \$630 35 hrs. Dual flight @ \$650 = \$22,750 (Dual flight includes 15 hrs Pilot in Command) 2 hrs. Dual FTD @ \$195 = \$390 Total: \$23,770.00 Total Flight Hrs. =37 hrs. (1 credit) AV 228G Helicopter Flight Lab, Commercial Pilot (AV225) Robinson R44 18 hrs. Pre/Post Instruction @ \$35 = \$630 35 hrs. Dual flight @ \$650 = \$22,750 2 hrs. Dual FTD @ \$195 = \$390 Written Exam Fee= \$160 DPE Fee= \$750 Total: \$24,680.00 Total Flight Hrs. =37 hrs. (1 credit) AV 228H Helicopter Flight Lab, Commercial Pilot (AV225) **Bell 206** 12 hrs. Pre/Post Instruction @ \$35 = \$420 20 hrs. Dual flight @ \$935 = \$18,700 Total = \$19,120.00Total Flight Hrs. =20 hrs. (1 credit) AV 228I Helicopter Flight Lab, Certified Flight Instructor (AV255) Robinson R44 53 hrs. Pre/Post Instruction @ \$35 = \$1,855 20 hrs. Dual flight @ \$650 = \$13,000 2 hrs. Dual FTD @ \$195 = \$390 Written Exam Fee = \$320 DPE Fee = \$850 Total: \$16,415.00 Total Flight Hrs. =22 hrs. (1 credit) AV 228J Helicopter Flight Lab, Certified Flight Instructor (AV255) Robinson R44 25 hrs. Pre/Post Instruction @ \$35 = \$875 10 hrs. Dual flight @ \$650 = \$6,500 5 hrs. Dual FTD @ \$195 = \$975 Written Exam Fee = \$160 DPE Fee = \$750 Total = \$9,260.00Total Flight Hrs. =15 hrs. (1 credit)

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirements None

Other Entrance Requirements

Required:

Students who enroll in this course of study must have a valid FAA Medical Certificate and a student pilot certificate. A doctor designated by the FAA as an Aviation Medical Examiner must conduct the medical exam.

Recommended:

Incoming students in the professional pilot program are encouraged to obtain at least a second-class medical certificate prior to entry into the program to ensure that they can eventually pursue a career in commercial aviation.

PROGRAM PERFORMANCE STANDARDS

Academic Requirements

Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.

Students must maintain a minimum 2.0 GPA while enrolled in the program. Students who do not maintain this standard and desire to continue the program, require completion of a training plan approved by their COCC advisor.

All courses in the program must be completed with a grade of C or higher.

Additional Requirements

Core Courses

The FAA requires applicants pass an airman knowledge exam for pilot certificates/ratings. Students must be prepared to fly three to four days per week in order to maintain the rigorous schedule that is required in order to complete the flight training in a timely manner.

PROGRAM COURSE REQUIREMENTS

AV 227A Helicopter Flt Lab Series I

Core Cour	5 C S			
AV 101	Introduction to Aviation 1	3		
AV 104	Introduction to Aircraft Systems ¹	4		
AV 108	Meteorology I ¹	4		
AV 112	Technically Advanced Aircraft	1		
AV 112A	Tech Advanced Aircraft Lab	1		
AV 115	Private Pilot-Helicopter ²	5		
AV 117	Helicopter Fundamentals	3		
AV 150	Aerodynamics ¹	4		
AV 200	Aviation Law ¹	3		
or AV 201	Airport Management			
AV 208	Meteorology II ¹	4		
AV 215	Instrument Helicopter ⁴	5		
AV 225	Commercial Pilot-Helicopter ⁴	4		
AV 235	Human Factors ¹	4		
AV 245	Advanced Helicopter Operations	4		
AV 246	Aviation Safety ¹	3		
AV 255	Cert Flight Instr-Helicopter	5		
Holiooptor	Elight Laha (Chagas Sarias Lar Sar	rica II\3	11	
Series I	Flight Labs (Choose Series I or Ser	ies II)°	11	
Selies I				

AV 227B	Helicopter Flt Lab Series I				
AV 227C	Helicopter Flt Lab Series I				
AV 227D	Helicopter Flt Lab Series I				
AV 227E	Helicopter Flt Lab Series I				
AV 227F	Helicopter Flt Lab Series I				
AV 227G	Helicopter Flt Lab Series I				
AV 227H	Helicopter Flt Lab Series I				
AV 227I	Helicopter Flt Lab Series I				
AV 227J	Helicopter Flt Lab Series I				
AV 227N	Helicopter Flt Lab Series I				
<u> </u>					
Series II	Haliaantar Elt Lab Cariaa II				
AV 228A	Helicopter Flt Lab Series II				
AV 228B	Helicopter Flt Lab Series II				
AV 228C	Helicopter Flt Lab Series II				
AV 228D	Helicopter Flt Lab Series II				
AV 228E	Helicopter Flt Lab Series II				
AV 228F	Helicopter Flt Lab Series II				
AV 228G	Helicopter Flt Lab Series II				
AV 228H	Helicopter Flt Lab Series II				
AV 228I	Helicopter Flt Lab Series II				
AV 228J	Helicopter Flt Lab Series II				
AV 228N	Helicopter Flt Lab Series II				
Other Rec	uired Courses				
BA 206	Management Fundamentals I	4			
or BA 101	Intro to Business				
SP 111	Fundamentals of Public Speaking	3-4			
or SP 218	Interpersonal Communication				
or SP 219	Small Group Communication				
CIS 120	Computer Concepts (or Computer	Comp	etency Test)	0-4	
Discipline	Studies Courses	8			
MTH 085	Technical Mathematics I	4			
or MTH 11	l1 or higher				
WR 121	Academic Composition ⁵	3-4			
					Total Cradite 00 05

Total Credits 90-95

¹ May be taken in any order, in any term and may be taken before, with or after the flight courses.

² Must be taken as the first flight course. May be taken any term.

³ Flight fees, simulator fees and FAA testing fees are required in addition to normal tuition for all flight labs and must be paid by the end of the second week of the term. Used portions of flight and simulator fees are not refundable. Contact the Aviation program director at 541.318.3702 for more information.

⁴ The Private Pilot Helicopter course AV 115 shall be completed prior to the Instrument Helicopter course AV215, and the Instrument Helicopter course AV215 shall be completed before the Commercial Pilot Helicopter course AV225.

Addendum: SFS 211 has been removed from program requirements

FIRE SERVICE ADMINISTRATION (EOU TRANSFER)

Associate of Science (AS) Degree

PROGRAM COURSE REQUIREMENTS

General Education/Foundational

Mathematics

MTH 105 Math in Society (or higher) 4

Oral Communication

SP 111 Fundamentals Public Speaking 3-4 or SP 218 Interpersonal Communication

Writing

WR 121 Academic Composition 4
WR 122 Argument, Research and Multimodal Composition 4
or WR 227 Technical Writing

General Education/Discipline Studies

Aesthetics and Humanities 3-4
Artistic Process and Creation 2 6-8
Natural, Mathematical and Information Systems 3 6-20
Social Science 4
Recommend: ANTH 103, PSY 201, PSY 202, SOC 201

PROGRAM REQUIREMENTS

FOR 211 Supervision and Leadership 3 or BA 285 Business Human Relations SFS 101 Introduction to Emergency Services 4 SFS 110 Bldg Const. for Fire Personnel 3 SFS 112 Public Ed. & Fire Prevention 3 SFS 120 Fixed Systems & Extinguishers 3 SFS 205 Fire Behavior and Combustion II 3

SFS 212 Fire Codes and Ordinances 3

SFS 275 Capstone: Tactics & Strategies 3

Electives 31

Choose any course numbered 100 or above that brings the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable. Recommend: SFS 121, SFS 122

Addendum: WR 065 course title has been corrected to Rhetoric/Critical Thinking II

NURSING ASSISTANT

Certificate of completion

PROGRAM COURSE REQUIREMENTS

Core Courses

HD 101 Study Strategies 3 or HD 100CS College Success HD 109 Effective Job Search Strategies 2 HHP 248 Health Psychology 3-4 or HHP 210 Intro to Health Care System NUR 103 Nursing Assistant 7 NUR 104 CNA Level 2 6 PSY 215 Developmental Psychology 4

Other Required Courses

CIS 120 Computer Concepts (or Computer Competency Test) 0-4 MTH 020 Pre-Algebra 1 4 or MTH 058 Math Literacy I SP 218 Interpersonal Communication 3 WR 065 Rhetoric/Critical Thinking II 4 or WR 121 Academic Composition

Addendum: SFS 230 has been added to program requirements.

STRUCTURAL FIRE SCIENCE

Associate of Applied Science (AAS) Degree

PROGRAM COURSE REQUIREMENTS

Foundational Requirements

Communication

WR 121 Academic Composition 4
WR 227 Technical Writing 4

Mathematics

MTH 0651 4 (or higher)

Program Requirements

EMT 151 Emergency Medical Technician-Part A 5

EMT 152 Emergency Medical Technician-Part B 5

SFS 101 Introduction to Emergency Services 4

SFS 102 Firefighter Safety and Survival 3

SFS 105 Fire Behavior and Combustion I 3

SFS 110 Building Construction for Fire 3

SFS 112 Public Education and Fire Prevention 3

SFS 120 Fixed Systems & Extinguisher 3

SFS 123 Hazmat Awareness & Operations 3

SFS 133 Fire Entry Exams 3

SFS 210 Fire Investigation 3

SFS 212 Fire Codes and Ordinances 3

SFS 230 Rescue Practices 3

SFS 232 Hydraulics and Water Supply 4

SFS 275 Fire Tactics and Strategies w/Capstone 3

WF 215 Urban Interface 3

Other Required Courses

CH 104 Introduction to Chemistry I 4-5 or GS 105 Chemistry FOR 211 Supervision & Leadership 3

Health Course, choose one: HHP 242 Stress Management 3 or HHP 266 Nutrition for Health or HHP 295 Health and Fitness

Activity Course, choose one: 1 HHP 185 Any

PH 201 General Physics 4-5 or GS 104 Physics

Speech Course, choose one: SP 111 Fundamentals of Public Speaking 3-4 or SP 115 Introduction to Intercultural Communication or SP 218 Interpersonal Communication or SP 219 Small Group Communication

Approved Discipline Studies List

Choose one: 3-4 ANTH 103, BI 234, CJ 100, OL 244, PSY 101, PSY 201, PSY 202, PSY 216, SOC 201

ELECTIVES

Students are required to choose nine credits from the SFS technical elective list.

AH 111 Medical Terminology 3

EMT 170 Emergency Response Comm./Documentation 2

EMT 171 Emergency Response and Patient Transport 2

EMT 195 Crisis Intervention 3

FOR 130 Chainsaw Use & Maintenance 2

SFS 121 Fire Law 1

SFS 122 Fire Department Budgets 1

SFS 205 Fire Behavior and Combustion II

3 SFS 263 Human Behavior in Fire 3

WF XXX All WF prefix courses accepted as elective credit 1-9

Addendum: The following course descriptions have been updated.

AV 110 - PRIVATE PILOT – AIRPLANE

Provides initial ground instruction in aeronautical skills and knowledge for the FAA Private Pilot certificate. Involves an introduction to fundamentals of flight, aerodynamics, flight operations, airspace, weather and weather products, flight planning, decision-making, human factors, human factors in aviation, and crew resource management. Comprehensive course that prepares student for the FAA Private Pilot airman knowledge written exam. Recommended preparation: MTH 020 or higher.

Credits: 5 Lecture: 5

AV 115 - PRIVATE PILOT-HELICOPTER

Covers fundamentals of flight, flight operations, aviation weather, performance, navigation, aircraft systems, aeronautical publications, FAA regulations, flight planning, radio procedures,

meteorology and human factors. Comprehensive course that prepares student for the FAA Private Pilot airman knowledge exam. Recommended preparation: MTH 020 or higher.

Credits: 5 Lecture: 5

AV 210 - INSTRUMENT - AIRPLANE

The instrument rating ground school prepares students for the FAA Instrument airman knowledge test and an FAA Instrument Rating. Includes an in-depth study of basic attitude instrument flying, IFR navigation systems and procedures, aircraft flight instruments, aviation weather, applicable FARs and the instrument charts required for IFR flight. Prerequisites: AV 110 (or Private Pilot Certificate).

Credits: 5 Lecture: 5

AV 215 - INSTRUMENT HELICOPTER

The instrument rating ground school for helicopter prepares students for the FAA Instrument knowledge test and an FAA Instrument Rating. Includes an in-depth study of aircraft flight instruments, basic attitude instrument flying, IFR navigation systems and procedures, aviation weather, applicable FARs, and the instrument charts required for IFR flight. Prerequisites: AV 115 (or Private Pilot Certificate).

Credits: 5 Lecture: 5

AV 220 - COMMERCIAL PILOT-AIRPLANE

Ground instruction of aeronautical skills and knowledge applicable to the FAA Commercial Pilot Certification portion of the Professional Pilot training syllabus. Covers night flight, aviation physiology, advanced aerodynamics, aircraft performance, weight and balance, complex aircraft operations, advanced airplane systems, commercial operations and FAA Regulations for commercial pilots and noncommercial flight operations, with emphasis on human factors, crew resource management, and decision-making. Prerequisites: AV 110 (or Private Pilot Certificate).

Credits: 4 Lecture: 4

AV 222A - AIRPLANE FLIGHT LAB

AV 222A, AV222B, AV222C introduce the student to the fundamentals of flight, and the practical application of aviation weather, performance, navigation, FAA regulations, flight planning, radio procedures, and human factors. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites: Instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 222B - AIRPLANE FLIGHT LAB

AV 222A, AV222B, AV222C introduce the student to the fundamentals of flight, and the practical application of aviation weather, performance, navigation, FAA regulations, flight planning, radio procedures, and human factors. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites: Instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 222C - AIRPLANE FLIGHT LAB

AV 222A, AV222B, AV222C introduce the student to the fundamentals of flight, and the practical application of aviation weather, performance, navigation, FAA regulations, flight planning, radio procedures, and human factors. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites: Instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 222D - AIRPLANE FLIGHT LAB

AV 222D, AV 222E, cover practical training in aircraft instrument flight, basic attitude instrument flying, Instrument Flight Rules (IFR), navigation systems and procedures, applicable federal aviation regulations and the instrument charts required for IFR flight. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with concurrency: AV 110 (or Private Pilot Certificate), AV 222A, AV 222B, AV 222C, and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 222E - AIRPLANE FLIGHT LAB

AV 222D, AV 222E, cover practical training in aircraft instrument flight, basic attitude instrument flying, Instrument Flight Rules (IFR), navigation systems and procedures, applicable federal aviation regulations and the instrument charts required for IFR flight. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with concurrency: AV 110 (or Private Pilot Certificate), AV 222A, AV 222B, AV 222C, and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 222F - AIRPLANE FLIGHT LAB

AV 222F, AV 222G, AV 222M covers night flight, aviation physiology, advanced aerodynamics, aircraft performance, weight and balance, complex aircraft operations, advanced airplane systems, commercial operations and FAA Regulations for commercial pilots and noncommercial flight operations, with emphasis on human factors, crew resource management and decision-making. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with concurrency: AV 110 (or Private Pilot Certificate), AV 222A, AV 222B, AV 222C and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 222G - AIRPLANE FLIGHT LAB

AV 222F, AV 222G, AV 222M covers night flight, aviation physiology, advanced aerodynamics, aircraft performance, weight and balance, complex aircraft operations, advanced airplane systems, commercial operations and FAA Regulations for commercial pilots and noncommercial flight operations, with emphasis on human factors, crew resource management and decision-making. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with concurrency: AV 110 (or Private Pilot Certificate), AV 222A, AV 222B, AV 222C and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 222H - AIRPLANE FLIGHT LAB

AV 222K, AV 222H emphasize engine failure, multiengine aerodynamics, minimum controllable airspeed, propeller feathering, V-speeds, flight planning, decision-making, human factors and crew resource management. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with concurrency: AV 110 (or Private Pilot Certificate), AV 210 (or Instrument Certificate), AV 220 (or Commercial Pilot Certificate), AV 222B, AV 222B, AV 222C, AV 222D, AV 222E, AV 222F, AV 222G, AV 222M, AV 222I, AV 222J, AV 250 (or Certified Flight Instructor/Instrument Instructor Pilot Certificates) and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 222I - AIRPLANE FLIGHT LAB

AV 222I, AV 222J will teach techniques of flight and ground instruction, analysis of maneuvers, aircraft performance and federal aviation regulations applicable to flight instructors. Practice ground and flight instructing will be required. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with concurrency: AV 110 (or Private Pilot Certificate), AV 210 (or Instrument Certificate), AV 220 (or Commercial Pilot Certificate), AV 222B, AV 222B, AV 222C, AV 222D, AV 222E, AV 222F, AV 222G, AV 222M and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 222J - AIRPLANE FLIGHT LAB

AV 222I, AV 222J will teach techniques of flight and ground instruction, analysis of maneuvers, aircraft performance and federal aviation regulations applicable to flight instructors. Practice ground and flight instructing will be required. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with concurrency: AV 110 (or Private Pilot Certificate), AV 210 (or Instrument Certificate), AV 220 (or Commercial Pilot Certificate), AV 222B, AV 222B, AV 222C, AV 222D, AV 222E, AV 222F, AV 222G, AV 222M, and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 222K - AIRPLANE FLIGHT LAB

AV 222K, AV 222H emphasize engine failure, multiengine aerodynamics, minimum controllable airspeed, propeller feathering, V-speeds, flight planning, decision-making, human factors and crew resource management. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with concurrency: AV 110 (or Private Pilot Certificate), AV 210 (or Instrument Certificate), AV 220 (or Commercial Pilot Certificate), AV 222B, AV 222C, AV 222D, AV 222E, AV 222F, AV 222G, AV 222M, AV 222I, AV 222J, AV 250 (or Certified Flight Instructor/Instrument Instructor Pilot Certificates) and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 222M - AIRPLANE FLIGHT LAB

AV 222F, AV 222G, AV 222M covers night flight, aviation physiology, advanced aerodynamics, aircraft performance, weight and balance, complex aircraft operations, advanced airplane systems, commercial operations and FAA Regulations for commercial pilots and noncommercial flight operations, with emphasis on human factors, crew resource management and decision-making. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with

concurrency: AV 110 (or Private Pilot Certificate), AV 222A, AV 222B, AV 222C and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 225 - COMMERCIAL PILOT-HELICOPTER

Reviews the principles of flight, aircraft systems, pertinent federal aviation regulations and airman publications and service in order to prepare the student for the FAA Commercial Helicopter Pilot airman knowledge exam. Prerequisites: AV 115 (or Private Pilot Certificate).

AV 227A - HELICOPTER FLT LAB SERIES I

AV 227A, AV227B, AV227C introduce the student to the fundamentals of flight, and the practical application of aviation weather, performance, navigation, FAA regulations, flight planning, radio procedures, and human factors. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites: Instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 227B - HELICOPTER FLT LAB SERIES I

AV 227A, AV227B, AV227C introduce the student to the fundamentals of flight, and the practical application of aviation weather, performance, navigation, FAA regulations, flight planning, radio procedures, and human factors. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites: Instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 227C - HELICOPTER FLT LAB SERIES I

AV 227A, AV227B, AV227C introduce the student to the fundamentals of flight, and the practical application of aviation weather, performance, navigation, FAA regulations, flight planning, radio procedures, and human factors. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with concurrency: Instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 227D - HELICOPTER FLT LAB SERIES I

AV 227D, AV 227E, AV 227N cover practical training in aircraft instrument flight, basic attitude instrument flying, Instrument Flight Rules (IFR), navigation systems and procedures, applicable federal aviation regulations and the instrument charts required for IFR flight. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Additionally, students will earn the basic night vision goggle endorsement coincident to their instrument training. Prerequisites with concurrency: AV 115 (or Private Pilot Certificate), AV 227A, AV 227B, AV 227C and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 227E - HELICOPTER FLT LAB SERIES I

AV 227D, AV 227E, AV 227N cover practical training in aircraft instrument flight, basic attitude instrument flying, Instrument Flight Rules (IFR), navigation systems and procedures, applicable federal aviation regulations and the instrument charts required for IFR flight. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Additionally, students will earn the basic night vision goggle endorsement coincident to their instrument training. Prerequisites with concurrency: AV 115 (or Private Pilot Certificate), AV 227A, AV 227B, AV 227C and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 227F - HELICOPTER FLT LAB SERIES I

AV227F, AV227G, AV227H include review and refinement of the principles of flight, flight maneuvers, aircraft systems, pertinent federal aviation regulations, airman publications and services, advanced aerodynamics, aircraft performance, and complex aircraft operations. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with concurrency: AV 115 (or Private Pilot Certificate), AV 215 (or Instrument Pilot Certificate), AV 227A, AV 227B, AV 227C, AV 227D, AV 227E, AV 227N and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 227G - HELICOPTER FLT LAB SERIES I

AV227F, AV227G, AV227H include review and refinement of the principles of flight, flight maneuvers, aircraft systems, pertinent federal aviation regulations, airman publications and services, advanced aerodynamics, aircraft performance, and complex aircraft operations. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with concurrency: AV 115

(or Private Pilot Certificate), AV 215 (or Instrument Pilot Certificate), AV 227A, AV 227B, AV 227C, AV 227D, AV 227E, AV 227N and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 227H - HELICOPTER FLT LAB SERIES I

AV227F, AV227G, AV227H include review and refinement of the principles of flight, flight maneuvers, aircraft systems, pertinent federal aviation regulations, airman publications and services, advanced aerodynamics, aircraft performance, and complex aircraft operations. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with concurrency: AV 115 (or Private Pilot Certificate), AV 215 (or Instrument Pilot Certificate), AV 227A, AV 227B, AV 227C, AV 227D, AV 227E, AV 227N and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 227I - HELICOPTER FLT LAB SERIES I

AV 227I, AV 227J will teach techniques of flight and ground instruction, analysis of maneuvers, aircraft performance and federal aviation regulations applicable to flight instructors. Practice ground and flight instructing will be required. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Students will meet the eligibility requirement of 15 hours pilot-in-command (in the aircraft appropriate to the rating) during the instrument (R44) and commercial (R22) phases of training. Prerequisites with concurrency: AV 115 (or Private Pilot Certificate), AV 215 (or Instrument Pilot Certificate), AV 227 (or Commercial Pilot Certificate), AV 227 A, AV 227 B, AV 227 C, AV 227 D, AV 227 E, AV 227 F, AV 227 G, AV 227 H, AV 227 N and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 227J - HELICOPTER FLT LAB SERIES I

AV 227I, AV 227J will teach techniques of flight and ground instruction, analysis of maneuvers, aircraft performance and federal aviation regulations applicable to flight instructors. Practice ground and flight instructing will be required. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Students will meet the eligibility requirement of 15 hours pilot-in-command (in the aircraft appropriate to the rating) during the instrument (R44) and commercial (R22) phases of training. Prerequisites with concurrency: AV 115 (or Private Pilot Certificate), AV 215 (or Instrument Pilot Certificate), AV 227B, AV 227B, AV 227C, AV 227D, AV 227E, AV 227F, AV 227G, AV 227H, AV 227N and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 227N - HELICOPTER FLT LAB SERIES I

AV 227D, AV 227E, AV 227N cover practical training in aircraft instrument flight, basic attitude instrument flying, Instrument Flight Rules (IFR), navigation systems and procedures, applicable federal aviation regulations and the instrument charts required for IFR flight. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Additionally, students will earn the basic night vision goggle endorsement coincident to their instrument training. Prerequisites with Concurrency: AV 115 (or Private Pilot Certificate), AV 227A, AV 227B, AV 227C and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 228A - HELICOPTER FLT LAB SERIES II

AV 228A, AV228B, AV228C introduce the student to the fundamentals of flight, and the practical application of aviation weather, performance, navigation, FAA regulations, flight planning, radio procedures, and human factors. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites: Instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 228B - HELICOPTER FLT LAB SERIES II

AV 228A, AV228B, AV228C introduce the student to the fundamentals of flight, and the practical application of aviation weather, performance, navigation, FAA regulations, flight planning, radio procedures, and human factors. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites: Instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 228C - HELICOPTER FLT LAB SERIES II

AV 228A, AV228B, AV228C introduce the student to the fundamentals of flight, and the practical application of aviation weather, performance, navigation, FAA regulations, flight planning, radio procedures, and human factors. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites: Instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 228D - HELICOPTER FLT LAB SERIES II

AV 228D, AV 228E, AV 228N cover practical training in aircraft instrument flight, basic attitude instrument flying, Instrument Flight Rules (IFR), navigation systems and procedures, applicable federal aviation regulations and the instrument charts required for IFR flight. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Additionally, students will earn the basic night vision goggle endorsement coincident to their instrument training. Prerequisites with concurrency: AV 115 (or Private Pilot Certificate), AV 228A, AV 228B, AV 228C and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 228E - HELICOPTER FLT LAB SERIES II

AV 228D, AV 228E, AV 228N cover practical training in aircraft instrument flight, basic attitude instrument flying, Instrument Flight Rules (IFR), navigation systems and procedures, applicable federal aviation regulations and the instrument charts required for IFR flight. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Additionally, students will earn the basic night vision goggle endorsement coincident to their instrument training. Prerequisites with concurrency: AV 115 (or Private Pilot Certificate), AV 228A, AV 228B, AV 228C and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 228F - HELICOPTER FLT LAB SERIES II

AV228F, AV228G, AV228H include review and refinement of the principles of flight, flight maneuvers, aircraft systems, pertinent federal aviation regulations, airman publications and services, advanced aerodynamics, aircraft performance, and complex aircraft operations. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with concurrency: AV 115 (or Private Pilot Certificate), AV 215 (or Instrument Pilot Certificate), AV 228A, AV 228B, AV 228C, AV 228D, AV 228E, AV 228N and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 228G - HELICOPTER FLT LAB SERIES II

AV228F, AV228G, AV228H include review and refinement of the principles of flight, flight maneuvers, aircraft systems, pertinent federal aviation regulations, airman publications and

services, advanced aerodynamics, aircraft performance, and complex aircraft operations. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with concurrency: AV 115 (or Private Pilot Certificate), AV 215 (or Instrument Pilot Certificate), AV 228A, AV 228B, AV 228C, AV 228D, AV 228E, AV 228N and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 228H - HELICOPTER FLT LAB SERIES II

AV228F, AV228G, AV228H include review and refinement of the principles of flight, flight maneuvers, aircraft systems, pertinent federal aviation regulations, airman publications and services, advanced aerodynamics, aircraft performance, and complex aircraft operations. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Prerequisites with concurrency: AV 115 (or Private Pilot Certificate), AV 215 (or Instrument Pilot Certificate), AV 228A, AV 228B, AV 228C, AV 228D, AV 228E, AV 228N and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 228I - HELICOPTER FLT LAB SERIES II

AV 228I, AV 228J will teach techniques of flight and ground instruction, analysis of maneuvers, aircraft performance and federal aviation regulations applicable to flight instructors. Practice ground and flight instructing will be required. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Students will meet the eligibility requirement of 15 hours pilot-in-command (in the aircraft appropriate to the rating) during the instrument (R44) and commercial (R22) phases of training. Prerequisites with concurrency: AV 115 (or Private Pilot Certificate), AV 215 (or Instrument Pilot Certificate), AV 228 (or Commercial Pilot Certificate), AV 228A, AV 228B, AV 228C, AV 228D, AV 228E, AV 228F, AV 228G, AV 228H, AV 228N and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 228J - HELICOPTER FLT LAB SERIES II

AV 228I, AV 228J will teach techniques of flight and ground instruction, analysis of maneuvers, aircraft performance and federal aviation regulations applicable to flight instructors. Practice ground and flight instructing will be required. The completion of the associated flight labs will also insure compliance with Federal Aviation Administration flight hour and certification requirements. Students will meet the eligibility requirement of 15 hours pilot-in-command (in the aircraft appropriate to the rating) during the instrument (R44) and commercial (R22) phases of training. Prerequisites with concurrency: AV 115 (or Private Pilot Certificate), AV 215, 225 (or

Instrument Pilot Certificate and Commercial Pilot Certificate), AV 228A, AV 228B, AV 228C, AV 228D, AV 228E, AV 228F, AV 228G, AV 228H, AV 228N and instructor approval based on proof of valid Second Class (or higher) Medical Certificate. Credits: 1 Lab: 3.2

AV 228N - HELICOPTER FLT LAB SERIES II

AV 228D, AV 228E, AV 228N cover practical training in aircraft instrument flight, basic attitude instrument flying, Instrument Flight Rules (IFR), navigation systems and procedures, applicable federal aviation regulations and the instrument charts required for IFR flight. Ensures compliance with Federal Aviation Administration flight hour and certification requirements. Students will earn the basic night vision goggle endorsement coincident to their instrument training. Prerequisites with concurrency: AV 115 (or Private Pilot Certificate), AV 228A, AV 228B, AV 228C and instructor approval based on proof of valid Second Class (or higher) Medical Certificate.

Credits: 1 Lab: 3.2

AV 230 - MULTIENGINE PILOT

Ground instruction of aeronautical skills and knowledge applicable to the commercial multiengine pilot certification. Emphasis is on engine failure, multiengine aerodynamics, minimum controllable airspeed, propeller feathering, V-speeds, flight planning, decision-making, human factors, and crew resource management. Prerequisites: AV 220 (or Commercial Pilot Certificate) and AV 250 (or Certified Flight Instructor/Flight Instructor with Instrument).

Credits: 2 Lecture: 2

AV 250 - CERTIFIED FLIGHT INSTRUCTOR - AIRPLANE

Provides the flight instructor applicant with fundamental concepts and practice for successful flight instruction at the recreational, private and commercial pilot level. Elements include fundamentals of instruction, developing lesson plans for private pilot and commercial pilot syllabus, designing curriculum, creating objective evaluation and grading criteria, and practical application in presenting technical material in an interactive classroom setting. Two FAA airman knowledge tests are required to obtain the CFI certificate, and a third is recommended. See Aviation Program director for current fees. Prerequisites: AV 210 (or Instrument Rating) and AV 220 (or Commercial Pilot Certificate).

Credits: 5 Lecture: 5

AV 255 - CERTIFIED FLIGHT INSTRUCTOR - HELICOPTER

Teaches techniques of flight and ground instruction, analysis of maneuvers, aircraft performance and federal aviation regulations applicable to flight instructors. Practice instructing will be required. Student will prepare for the FAA Fundamentals of Instruction (FOI), CFI

Helicopter, and Advanced Ground Instructor (AGI) exams. See Aviation Program director for current fee schedule. Prerequisites: AV 215 (or Instrument Pilot Certificate), AV 225 (or Commercial Pilot Certificate and instructor approval based on proof of valid Second Class (or higher) Medical Certificate).

Credits: 5 Lecture: 5

MTH 231 - DISCRETE MATHEMATICS I

Topics in the course will examine in detail the applied, real-world and theoretical mathematical implications of the mathematical concepts elementary logic and set theory, functions, direct proof techniques, contradiction and contraposition, mathematical induction and recursion, elementary combinatorics, basic graph theory, minimal spanning trees. The symbolic, numerical and graphical representations of the mathematical concepts will be expanded and explored. Emphasis will be on solving problems symbolically, numerically and graphically and understanding the connections among these methods in interpreting and analyzing results.

Credits: 4 Lecture: 4

EMT 151 - EMERGENCY MEDICAL TECHNICIAN PART A

Develops skills in pre-hospital assessment and care for patients of all ages with a variety of medical conditions and traumatic injuries. Part 1 of 2-part National EMS Standards Curriculum course. Students must complete an eight (8) hour "shift" hospital field experience. Required prior to first class: documentation of cleared criminal background check, current immunizations, current American Heart Association BLS for the Healthcare Provider (CPR) certification. Prerequisites: department approval, WR 065 or higher or placement into WR 121, MTH 020 or higher or placement into MTH 060.

Credits: 5 Lecture: 2 Other: 6

EMT 152 - EMERGENCY MEDICAL TECHNICIAN PART B

Develops skills in pre-hospital assessment and care for patients of all ages with a variety of medical conditions and traumatic injuries. Part 2 of 2-part National EMS Standards Curriculum course. Students must complete an eight (8) hour "shift" EMS agency ride-a-long. Prerequisites: Department approval and EMT 151 (completed at COCC within one academic year).

Credits: 5 Lecture: 2 Other: 6

EMT 171 - EMERGENCY RESPONSE PATIENT TRANSPORT

Covers ambulance operations, laws, maintenance, safety, emergency response driving, and route planning. Includes mandatory ten-hour fielddriving course. Required prior to first class: valid Oregon driver's license.

Credits: 2 Lecture: 1 Other: 2