



2018-2019

CATALOG



Clatsop
Community
College

Enriching Lives
Inspiring Learning
Creating Opportunities

www.clatsopcc.edu

Mission Statement

Enriching Lives | Inspiring Learning | Creating Opportunities

Core Themes

Core Theme 1: Foundational Skills

Core Theme 2: Academic and Student Success

Core Theme 3: Community and Personal Enrichment

Strategic Initiatives

1. Strengthen the academic environment for students

2. Cultivate Connections with the Community

3. Commit to Equity and inclusiveness

4. Advance Institutional Accountability

To receive information about the College's degree or certificate programs, write or call:

Clatsop Community College Admissions Office

1651 Lexington Ave., Astoria, OR 97103

503-338-2411

email: admissions@clatsopcc.edu

For general information, call 503-338-2400 or access our website at: www.clatsopcc.edu

Specific inquiries about the Affirmative Action Policy should be directed to the:

Affirmative Action Officer/Human Resources Director

Non-Discrimination Declaration

It is the policy of Clatsop Community College that there will be no discrimination or harassment on the grounds of race, color, sex, gender, marital status, religion, national origin, age, sexual orientation, gender identity or expression or disability in any educational programs, activities, or employment. Questions or complaints should be directed to Leslie Hall, Affirmative Action/Gender Equity (Title IX) Officer, Towler Hall, Suite 110, lhall@clatsopcc.edu (link sends e-mail) 503-338-2450; TDD 503-338-2468. The Title II/Section 504 Coordinator, Shelly Alford, is located in Towler Hall, Suite 312, salford@clatsopcc.edu (link sends e-mail) 503-338-2311.

Accommodations

Persons having questions about or a request for special needs and accommodation should contact JoAnn Zahn, Vice President of Finance and Operations, at Clatsop Community College, 1651 Lexington Avenue, Astoria, Oregon 97103, Library Suite 110, jzahn@clatsopcc.edu (link sends e-mail) Phone (503) 338-2421 or TDD (503) 338-2468. Please send special needs and accommodations requests [HERE](#). Contact should be made at least two business days in advance of the event.

Declaración de no-discriminación

Es la política de Clatsop Community College que no habrá ningún tipo de discriminación o acoso por razón de raza, color, sexo, género, estado civil, religión, origen nacional, edad, orientación sexual, identidad de género o expresión discapacidad en los programas educativos, actividades o en la contratación. Preguntas o quejas deben ser dirigidas al Leslie Hall, Oficial de Acción Afirmativa / Título IX localizado en Towler Hall número 110, lhall@clatsopcc.edu (link sends e-mail) número de teléfono 503-338-2450, TDD (discapacidad auditiva) 503-338-2468. El Coordinador de la Título II/Sección 504, Shelly Alford, se encuentra en Towler Hall, número 312, salford@clatsopcc.edu (link sends e-mail) número de teléfono 503-338-311. Para ADA y otras peticiones de servicios llame al 503-338-2474 o para TDD (discapacidad auditiva) 503-338-2468.

Ayuda a personas discapacitadas

En cuanto a las personas discapacitadas, se les pide que se comuniquen con JoAnn Zahn, la Vice Presidente de Finanzas y Operaciones en Clatsop Community College, 1651 Lexington Avenue, Astoria, Oregon 97103, Library Suite 110, jzahn@clatsopcc.edu (link sends e-mail) número telefónico (503) 338-2421 o a TDD (503) 338-2468. Haga el favor de notificar a la oficina para que se le pueda proporcionar apoyo. La comunicación debe tomar lugar por lo menos dos días de trabajo antes del evento por el cual se requiera tal ayuda.

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Clatsop
Community
College



Welcome to Clatsop Community College!

Welcome to Clatsop Community College! The 2018-2019 academic year is an excellent time to explore all that CCC has to offer. Our programs provide opportunities to develop your critical thinking and problem solving abilities; they can provide you the skills to help prepare you for a career while at the same time providing you a strong foundation to continue your education. Our faculty and staff are dedicated to providing rigorous academic experiences that will provide challenges to spur you academic and personal growth.

We are a college that values our commitment to serving students, that trait is a defining characteristic of our campus culture and this ethos continues to drive us as we seek innovative ways to teach and learn with our students. This an exciting time to be at Clatsop Community College. We are charting the course of the future of our college through the implementation of our new strategic plan. The plan is the result of a year-long campus-wide collaborative effort to develop initiatives that further our mission of enriching lives, inspiring learning and creating opportunities for all in our community. The plan focuses on four key areas: strengthening academics, connecting with the community, committing to equity, and advancing institutional accountability. We are setting concrete goals and objectives to ensure we improve in each of these areas, this work will help us be the best college we can be.

I am so excited for you to be part of our family here at CCC. This is an amazing institution and I encourage you to get involved in all that CCC has to offer, not only the academic experiences, but also the service opportunities and social activities that make this a truly special college. Being part of the CCC family will help you find out how you can make a difference by discovering what passions drive you. I look forward to seeing you on campus this year.

Chris Breitmeyer
President, Clatsop Community College

Clatsop Community College



Clatsop Community College is a public, two-year educational institution serving northwest Oregon and southwest Washington since 1958. Clatsop is located at the mouth of the Columbia River in Astoria, Oregon and serves all of Clatsop County and part of Columbia County in Oregon as well as Pacific and Wahkiakum Counties in Washington. As a comprehensive community college, Clatsop offers students

1. A low cost, high quality alternative for the first two years of a bachelor's degree;
2. Developmental education courses to help sharpen math and writing skills before beginning a degree program;
3. Career technical education programs that train students for jobs upon graduation;
4. Fun classes for personal enrichment such as bird watching, physical fitness, jewelry making, and wooden duck carving;
5. Occupational training courses; and
6. Customized workforce training courses

Institutional Student Learning Outcomes

Students completing a degree or certificate program learn essential transferable skills crucial to their success. Upon graduation, Clatsop Community College graduates will be able to:

1. Communicate effectively through writing, speaking, and imagery;
2. Solve problems with current and emerging discipline-appropriate technology;
3. Act with integrity;
4. Understand and appreciate diversity;
5. Work competently through knowledge of content, mastery of skills, and effective work habits;
6. Work effectively individually, collaboratively, and as a leader;
7. Solve problems through critical and creative thinking
8. Demonstrate the skills and tools needed for life-long learning.

Accreditation

Clatsop Community College is accredited by the Northwest Commission on Colleges and Universities (NWCCU), 8060 165th Avenue N.E., Suite 100, Redmond, WA 98052, 425-558-4224. The Northwest Commission on Colleges and Universities is an independent, non-profit organization recognized by the US Department of Education and the Council for Higher Education Accreditation (CHEA) as the northwest postsecondary regional accrediting authority on educational quality and institutional

effectiveness of higher education institutions. Accreditation by postsecondary regional accrediting agency qualifies institutions and enrolled students for access to federal funds to support teaching, research, and student financial aid. Clatsop Community College's accreditation from the NWCCU assures students that their work will receive appropriate recognition from prospective employers and other colleges and institutions. Accreditation information is available at the Office of the President.

Convenient, Student-Centered Facilities

The College's historic main campus in Astoria, on a hillside overlooking the magnificent Columbia River, has undergone extensive redevelopment to provide state-of-the-art laboratories and classrooms, full-accessibility, and inviting, student-centered learning spaces. Columbia Hall houses the Bookstore, cafe, student classrooms, modern science labs, Student Services, and a community meeting room. Patriot Hall opened Summer 2017 and features a new gymnasium, classrooms, and indoor running track.

In addition to the main campus, the College's MERTS campus, approximately four miles east of Astoria, houses maritime science, fire science, and industrial technology training facilities for welding/fabrication, automotive, and historic preservation and restoration. The South County Campus in Seaside is the location for small business and economic development services as well as various classes convenient to South County residents.

A Sense of Place

The College district covers all of Clatsop County, bordered on the north by the Columbia River, on the west by the Pacific Ocean, and nestled against the mountains of the Coast Range on the east. This magnificent natural landscape provides inspiration for the College's art students and a living laboratory for its science students. The area's colorful history of exploration, fishing, and maritime trading is also evident in the College's regionally unique Maritime Science and Historic Preservation and Restoration programs. Astoria, the county seat, is said to be the oldest American settlement west of the Rocky Mountains. Its beautiful, Victorian-era homes and commercial buildings, many constructed before the turn of the 20th century, speak to the craftsmanship of a bygone age and have inspired the College's degree program in Historic Preservation.

ADMISSION

DEGREE OR CERTIFICATE PROGRAMS

If you are planning to earn a degree or certificate you must apply and be admitted to Clatsop Community College as a certificate or degree seeking student. In addition, many of the special program funding sources such as financial aid, veterans benefits, and most scholarships require your admission before any funds can be released. Otherwise, Clatsop invites you to apply and attend as a non-degree-seeking student.

Admission Criteria: Clatsop Community College is an open-door, equal-access institution. Consistent with the mission and core themes of the college, Clatsop recruits and admits students with the potential to benefit from our educational offerings. To qualify for admission, you must be at least 16 years of age and possess a high school diploma or GED. To be admitted you must complete an admissions application and fulfill the placement assessment requirement. The College reserves the right to deny admission to applicants whose admission is judged to be potentially detrimental to the institution.

Application Dates: As a prospective student, you are encouraged to apply to the college as early as possible before the term you plan to attend. The Student Services Welcome Center and Office of Admissions will help you begin the admissions process, with staff typically available from 9 am to 5 pm throughout the week. To contact the Admissions Office, please call 503-338-2411 or 503-338-2417, email us at admissions@clatsopcc.edu, or write to us at Clatsop Community College Admissions, 1651 Lexington Ave., Astoria, OR 97103.

	Fall 18	Winter 19	Spring 19	Summer 19
Last Placement Assessment	9/13/18	1/2/19	3/21/19	6/13/19
Last New Student Orientation	9/13/18	1/2/19	3/21/19	6/13/19
Last Day to Complete Admissions	9/14/18	1/3/19	3/22/19	6/14/19

Take the following steps to begin your Clatsop Community College experience:

Step 1: Complete the Online Application for Admission

The first step in the admissions process is to complete the online admissions application. Go to www.clatsopcc.edu/apply and select your profile to apply. When you complete and submit your degree-seeking application, a \$15 application fee will be posted to your student account. This is a non-refundable fee.

If you are not transferring from another institution and it has been more than five years since you completed high school or the GED, please request that your high school or GED transcripts be mailed to our Admissions Office. GED are available at www.gedtestingservices.com

Step 2: Fulfill the Placement Assessment Requirement

Clatsop Community College assesses academic readiness for college-level reading, writing, and math as part of our admissions process. This is generally fulfilled by taking the ACCUPLACER at Clatsop's Testing Center. Online ACCUPLACER sign-up is

available through your student account once you submit your admissions application. A \$15 fee will be posted to your account when you sign up. This fee is refundable up to one hour before the time of your scheduled test, provided you cancel the session through your student account or notify our Testing Center at least one hour in advance.

Students who have earned a passing grade ("C" or above) in college writing & math may be waived from the ACCUPLACER with proof of coursework. Unofficial transcripts may be emailed, faxed, or delivered to the Admissions Office for placement test waiver consideration. In rare circumstances, other measures may be considered for waiving the ACCUPLACER and fulfilling the placement assessment requirement for admission. You may contact the Admissions Office if you need more information on waiving or fulfilling the required placement assessment: 503-338-2417.

Without a placement test waiver, all new degree-seeking students at Clatsop Community College are required to take the writing, reading, and math portions of the ACCUPLACER. Placement evaluation results are used principally to assess appropriate academic placement, rather than to deny admission to our college.

ACCUPLACER consists of three basic areas:

1. Reading assesses your ability to determine the meaning of words and phrases in short and extended contexts. Knowledge and skills categories assessed include vocabulary, rhetoric, synthesis, information, and ideas.

2. Writing measures your abilities in sentence structure, punctuation, grammar, expression of ideas, organization, strategy, and style.

3. Math knowledge and skills are assessed on several different evaluation levels, potentially giving you the opportunity to measure your standard arithmetic, elementary algebra, and college algebra abilities.

Step 3: Attend Orientation and Advising

Having completed the steps above and gaining admission to the college, sign up for a required New Student Orientation and Advising session. During orientation, you will learn about financial aid, registering for classes, college programs, support services, personal safety, and student rights – critical information to prepare you to begin classes and to get the most from your college experience. You will also meet with an academic advisor who will share information about academic and graduation requirements, as well as transferring after degree completion at Clatsop.

Readmission: If you have been admitted and attended Clatsop before, but have been absent for one year or more, contact the Admissions Office to update your status as an admitted student. Additional steps may be required.

Home Schooled Students: Home schooled students are welcomed to enroll in courses at Clatsop Community College. In accordance with Oregon Law (ORS 339.030), the college requires home-schooled students under the age of 18 who have not graduated from high school provide an Exemption from Compulsory Attendance form (Oregon residents) indicating the student has been granted an exemption from compulsory attendance by the school district in

ADMISSION • MONEY MATTERS

which they reside. For Clatsop County students with an exemption from their local school district, a College Verification Letter may be obtained through the Northwest Regional ESD office of Home Schooling Services. To register for classes, the student will need to ensure a current copy of this written exception is on file with the Registrar's Office by submitting documentation to the Student Services Welcome Center. Non-residents must provide equivalent documentation from their local school district. Procedures for requests for exemption from attendance are stated in Oregon Administrative Rule 581-021-0076.

International Students: Clatsop Community College is not able to accept applications for students needing International Student Visa support at this time.

Payment Obligations

By registering for a class at the College, you are legally responsible to pay all tuition, fees, and other charges relating to your enrollment—even if another party is paying for your courses. Unless you officially withdraw from your courses by the deadline, you are obligated to make payment by the due date published in the relevant college publications.

If you do not make payment, make arrangements for deferred payment, provide proof of payment in full by another party, or withdraw from your courses by the required date, you will also be responsible for payment of additional late charges, any collection costs and attorney fees.

You are responsible for keeping the College informed of any changes in your mailing address or name by updating your MyCCC account.

If you are under 18 years of age, you will be held liable for all charges incurred under Oregon Revised Statute 348.105.

Payment Options

Payments may be made by any of the following methods:

Cash: US funds only.

Checks: Local personal checks, non-local personal checks (with check guarantee card), travelers checks, cashiers checks and money orders are accepted. Make payable to Clatsop Community College.

A \$35.00 charge and all collection costs, including court costs, will be charged on returned checks. After the college has received two returned checks from you, all future payments must be made by cash, credit card, or cashiers check; personal checks will not be accepted. Returned checks of any nature, including NSF and stop payment, do not cancel your financial obligation for payment.

Credit Cards: Discover Card, VISA & Mastercard are accepted.

Financial Assistance/Scholarship: It is your responsibility to ensure that your financial aid/scholarship is in place by the payment due date. It is your responsibility to attend all classes for which your financial aid/scholarship is paying in order to receive your funding.

Alternate Funding Source: It is your responsibility to ensure that official payment authorization is received by the Student Account Specialist by the payment due date or late charges will be assessed and/or the account will be sent to collections.

Installment Payment Plan: Any student may participate in the Deferred Payment Plan, except those noted below. If you qualify, the following conditions apply:

- You must register using your social security number.
- (Payment Option 1) Pay 1/3 down plus a \$20.00 nonrefundable service charge by the first Friday of the term to avoid a \$50.00 late fee.
- (Payment Option 2) Pay a minimum of \$50.00 plus a \$20.00 nonrefundable service charge by the first Friday of the term to avoid a \$50.00 late fee.
- The remaining balance, after down payment, will be divided into two equal installments. The balance due is to be paid monthly by predetermined dates.
- If payment is not made on due date, a late fee of \$15.00 per month will be assessed the day after the installment payment is due.
- Any balance remaining on the last day of the term may immediately be referred to a collection agency, the Oregon Department of Revenue, or an attorney for collection. Collection and/or attorney fees will be added to the outstanding balance.
- Any balance due may be deducted from all financial assistance or scholarships awarded to you.
- You will not be allowed to register for subsequent terms until your account is paid in full.

Note: The college's Installment Payment Plan is not available to:

- 1) students receiving full funding from financial assistance, scholarships, or alternate source.
- 2) students owing less than \$100.00.

Refunds

Before dropping or withdrawing from a class, it is a good idea to see an advisor or student services representative to discuss support services that may make it possible for you to remain in classes.

General: Refunds are calculated when a class is dropped online at MyCCC. Refunds will be processed by the Business Office, as soon as possible, beginning the third week of each term.

Regular Courses: Students withdrawing from a course more than two days in length, and who comply with regulations concerning withdrawals, may receive a refund of tuition and fees. Withdrawals made within the first week of the term will qualify for a full refund.

Short Courses: If you withdraw from classes two days or less in length, you will receive a full refund if the action is initiated prior to a special preregistration deadline or if no such deadline, prior to the beginning of the class. No refunds will be issued after those times.

Course Cancellations: If a class is canceled by the College, there will be a 100% refund of the tuition and fees.

Special Provisions: Refunds of financial assistance will be pro-rated in accordance with federal regulations and are returned to the financial assistance programs, not to the student. Details are available at the Financial Aid Office.

If you withdraw due to circumstances beyond your control such as job relocation or a medical emergency, you may file a petition for additional refund. The date of receipt of the petition, length of class attendance, and cost of course materials and services may be considered in denying or reducing the amount requested.

MONEY MATTERS

TUITION & FEES

Gold Card

Clatsop Community College students 62 or older may receive a 25% Clatsop Community College Gold Card discount on course tuition. Eligible recipients are responsible for all other course fees (rental fees, consumable fees, technology fees, etc.). Students must present proof of age. The college reserves the right to exempt courses from the Gold Card discount.

Senior Citizen Tuition Waiver

Oregon residents 65 years of age or older may register to audit a lower-division collegiate course and have tuition waived. This is available for selected courses as determined by the Vice President for Academic and Student Affairs, and subject to available space. The student is responsible for all fees associated with the audited course and requires proof of age, and a completed registration form submitted to the Student Services Welcome Center. Students may not register for more than eight credits during the term. Course registration must occur on the first day the class meets (Friday for weekend classes).

Tuition & Fees

Current tuition and fee information is published on our website at www.clatsopcc.edu/getting-started/tuition-fees. All monies owed to the college for previous terms must be paid before you can register for the current term. Tuition and fee rates are subject to change without notice.

Technology Fee: in order to provide the most up-to-date computer hardware and software for students to utilize in the labs and instructional classrooms, it is necessary to periodically replace both the hardware and software. The Technology fee paid by the students helps the College with a portion of these costs. The fee also helps pay for the cost of operating the instructional labs each term. This includes helping pay for lab monitors, internet access, student email accounts, paper, print cartridges, and other current operating expenses. The fee is pro-rated for non-credit classes.

Consolidated Fee: The consolidated fee will be charged once per term for all students registering for credit courses, it will not be charged for non-credit or community education courses. The consolidated fee will help cover costs associated with registration, Library services, parking, advising and counseling, Career Center, tutoring, energy, graduation petition, and Associated Student Government (ASG).

Residency: Residents of Oregon will be charged the in-state tuition rate. Residents of Washington, Nevada, California or Idaho will be charged the border state tuition rate. If you wish/need to retain residency in a state other than those listed above, you will be charged the out-of-state tuition rate. Declaration of intent must be made at the time of registration. Per Oregon Revised Statute, the following are considered residents:

- military personnel on active duty and their dependents.
- veterans enrolling within one year of separation from services.
- dependents of parent or guardian who qualifies as Oregon resident.

Veterans Health Care and Benefits Improvement Act of 2016

The following individuals shall be charged a rate of tuition not to exceed the in-state rate for tuition and fees purposes:

A Veteran using educational assistance under either chapter 30 (Montgomery G.I. Bill – Active Duty Program) or chapter 33 (Post-9/11 G.I. Bill), of title 38, United States Code, who lives in Oregon while attending a school located in Oregon (regardless of his/her formal State of residence) and enrolls in the school within three years of discharge or release from a period of active duty service of 90 days or more.

Anyone using transferred Post-9/11 GI Bill benefits (38 U.S.C. § 3319) who lives in Oregon while attending a school located in Oregon (regardless of his/her formal State of residence) and enrolls in the school within three years of the transferor's discharge or release from a period of active duty service of 90 days or more.

Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same school. The person so described must have enrolled in the school prior to the expiration of the three year period following discharge or release as described above and must be using educational benefits under either chapter 30 or chapter 33, of title 38, United States Code.

Anyone using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311(b)(9)) who lives in Oregon while attending a school located in Oregon (regardless of his/her formal State of residence).

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

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

Other Fees

Refundable Fees (in addition to or in lieu of tuition): Some classes such as art, integrated manufacturing technology, computer science and physical activity have additional fees. Depending upon circumstances, these fees may be refundable.

Non-refundable Fees for 2018-2019: The following fees are non-refundable:

Admissions application	\$15
Official Transcripts	\$5 each
Late fee for not making payment arrangements by end of the first week of classes	\$50, plus \$15. per month
Installment Payment Plan processing fee	\$20
Returned check fee.....	\$35
Graduation cap & gown fee	\$35

Contact the Student Services Welcome Center or the Testing Center for current non-refundable fees for the following:

- GED testing \$38 per test (students complete four tests)
- GED re-test fee
- ACCUPLACER assessment (all subject areas) \$15
- ACCUPLACER assessment (single subject) \$10

FINANCIAL ASSISTANCE

Clatsop Community College has a comprehensive financial aid program that includes grants, loans, and part-time employment. These resources come from private sources, Clatsop Community College, the state of Oregon and the federal government. The primary purpose is to provide financial assistance to students who would be unable to attend Clatsop Community College without such help. Financial assistance is available to help bridge the gap between annual educational expenses at Clatsop and the student's ability to contribute to the cost. Each student and his or her parents (if applicable) bear the primary responsibility for meeting educational costs.

Eligibility: To be considered for financial aid, a student must be admitted and enrolled in a program leading to a degree or certificate. Individual sources of financial aid have program specific requirements. Not all sources of financial aid have the same requirements. Please use the CCC web site www.clatsopcc.edu or contact the CCC Financial Aid Office as resources for further individual program eligibility requirements. Financial aid (with the exception of some scholarships) is determined by an analysis of financial resources from information furnished on the "Free Application for Federal Student Aid" (FAFSA) or other financial aid documents such as the "Oregon Student Aid Application" (ORSAA). A federal formula is used to calculate a student's need for financial aid. In addition to the FAFSA or ORSAA a student may be required to provide additional documentation to the Financial Aid Office. Financial aid awards are not done until all requirements have been met. Every effort is made to ensure fair distribution of the resources available to the college through the "need analysis" process.

Student loan eligibility is determined at the time of awarding using information submitted through the financial aid process. If you are eligible for a student loan, you may be eligible to increase the subsidized amount of loan or total amount of loans you may borrow if you are a second year student. To qualify as a second year student you must be able to show that you have earned at least 45 required credits toward your declared two year associate degree. Required credits mean the credits that are actually listed on the Degree Checklist. To have this reviewed, you will need to meet with your advisor to complete a Degree Checklist listing all of your completed classes toward your degree and it must be signed off by your advisor. This should be submitted with your initial Loan Request. After review, you will be notified if it changes your type of loan or loan amount.

Applying for Financial Assistance: Applying for Financial Assistance: All students should apply for financial assistance beginning October 1, for the following academic year, summer, fall, winter and spring. Students should begin the application process as soon as possible after October 1 regardless of the next year's term they plan to attend. It is important to file early as some sources of financial aid are limited and will run out of available funds early in the year.

Students should apply for financial aid with the FAFSA or the ORSAA depending on personal circumstances. The FAFSA is available at www.fafsa.ed.gov the ORSAA is available at www.oregonstudentaid.gov.

Students must be enrolled to receive financial aid. Students may enroll full-time (12+ credits), three-quarter time (9-11 credits), half-time (6-8 credits) or less than half-time (1-5 credits). Credits earned towards a declared program of study will be used in determining a student's grade level. Grade level will be used in determining amounts for some types of financial aid. 0-45 credits is considered first year and 46 and above is considered second year. Credits earned must apply to declared degree program.

Financial Assistance Refunds & Returns

For any students receiving federal student financial aid, refunds for tuition and fees (excluding non-refundable fees) are returned to the financial assistance programs and not to the student. A return of federal student financial aid funds that were received by the student for other costs of education, such as living expenses, may be required if a student completely withdraws from all classes before completing at least 60% of the term or receives zero credits. Any refunds for tuition and fees and any financial assistance funds returned by the student will be applied in the following order:

1. Unsubsidized Direct Stafford loans.
2. Subsidized Direct Stafford loans
4. Federal Pell Grants
5. Federal Supplemental Educational Opportunity Grants
6. Other SFA Programs
7. Other federal, state, private, or institutional sources
8. The student

Students are required to notify the College of their withdrawal from all classes by withdrawing online or completing a *Registration and Schedule Change Form* and submitting it to Student Services for any term in which they receive financial assistance funding. For any student who completely withdraws before more than 60% of the term has been completed, the amount of any refund for tuition and fees, and the amount of federal student financial assistance funds that must be returned by the student are calculated based on the student's withdrawal date. A student's withdrawal date is the last date of attendance as indicated by the date the student withdrew. For students who fail to withdraw from a course, or in cases where no last date of attendance is indicated, the exact withdrawal date will be determined by the Financial Aid Office. (Contact the Financial Aid Office for further details on withdrawal date determination.)

If a student receiving financial aid completely withdraws from all classes before more than 60% of the term has been completed, the College will determine if any financial aid must be returned by the student. The College must calculate these amounts, refund any tuition and fees, and notify the student of any amount due within 30 days of the withdrawal date or the date the College determines the student withdrew, whichever

is later. The College calculates the refund amounts and the amount of funds that must be returned by the student based on the percentage of the term completed. For more information and examples of how the College calculates these amounts using the Return to Title Four calculation, contact the Financial Aid Office.

A student must return the entire amount due by the end of the term in which he/she withdraws in order to continue assistance eligibility for the next term. A student/parent who cannot immediately return the full amount due may make other arrangements by contacting the College Business Office within 45 days of the date the College notifies the student of the amount due.

Student-Owed Repayments

Students receiving cash payments from the financial assistance programs (funds disbursed to the student after payment of tuition and fees, not including the Federal Work Study) who completely withdraw from all classes or receive zero credits may be required to repay a portion of the cash payment according to the percentage of term completed.

No repayment of financial assistance is required for students who complete more than 60% of the term. Students must submit written notification of complete withdrawal from classes by submitting a *Registration and Schedule Change Form* to Student Services. No additional financial assistance will be paid to a student who owes a repayment for early withdrawal until full repayment or arrangements for repayment are made.

***The last date of attendance is the date used to determine the tuition refund to the Financial Assistance program and the amount of repayment a student owes. If a student fails to withdraw, the last date of attendance is the mid-point of the term or as determined by information available to the Financial Aid Office.*

Satisfactory Progress Guidelines

Clatsop is required by federal and state regulations to define and enforce standards of satisfactory academic progress (SAP) which students must maintain to continue receiving financial assistance. SAP is determined each term based on your cumulative GPA and the total credits you have earned at Clatsop. Refer to the following chart:

<i>Cumulative GPA</i>	<i>Percent of Credits</i>
2.00 each term.	Complete 66.67% of your attempted credits

Students who do not meet the minimum CGPA and/or complete the required number of credits listed above will be disqualified from financial assistance. Other guidelines also apply. See the Financial Aid website for further details.

Maximum Credit Limit: Federal regulations require that a school define a maximum number of credits within which a student must complete his/her program. At Clatsop a student is expected to complete a one year certificate within 150% of the published length of the certificate or a two year degree within 135 credits. All credits attempted at Clatsop and any credits a student attempted at other institutions will be used in the calculation.

Appeals: If you are disqualified for the following: not maintaining the appropriate cumulative GPA and/or not completing the required number of credits by the end of a term; completing zero credits any term; not completing your program within the maximum credits allowed, and you believe you have extenuating circumstances that caused you to be disqualified, you may petition the for a review of your situation. Petitions will be reviewed by the Director of Financial Aid and may be forwarded to the Financial Issues Committee for further review. Petitions are available at the Financial Aid Office, and must be submitted by Monday, 5:00 p.m., the first week of classes. No petitions are accepted for summer term.

Scholarships

Scholarships at Clatsop are applied for through a formal application process that occurs in the spring and fall. Each year over 60 scholarships are available to eligible students. The online application process is open in April and October. The list of scholarships being offered is updated regularly. All Clatsop scholarships are applied for online through the CCC web site. Go to the CCC website at www.clatsopcc.edu/scholarships for details on scholarships being offered and application deadlines, or call the Financial Aid Office at 503-338-2322.

	Brief Description	2018-19 Annual Award Limits	Enrollment Requirements
Pell Grant	Grant: A federal grant program for undergraduate students who demonstrate need. Does not have to be repaid.	Up to \$6,095.	Must be enrolled in 1-12 or more credits. Maximum amount listed but prorated based on enrollment & eligibility.
SEOG Grant (Supplemental Educational Opportunity Grant)	Grant: A federal grant program for undergraduate students who demonstrate need.	Up to \$900.	Must be enrolled in at least 6 credits. Individual amounts vary based on enrollment and eligibility.
Oregon Opportunity Grant	Grant: A grant that is funded through the state of Oregon to Oregon residents.	Up to \$2,600.	Must be enrolled in at least 6 credits. Maximum amount listed — adjusted for half or three quarter enrollment in most cases.
Oregon Promise	Grant: A grant that is funded through the state of Oregon to Oregon residents.	Up to \$3,537	Must be enrolled in at least 6 credits. Maximum amount listed — adjusted for half or three quarter enrollment in most cases.
Federal Work Study	Work commitment: A federal program that provides employment opportunities for students who demonstrate need. Jobs may be on or off campus. Students paid once a month. Wage range \$9.65 to \$11.65 per hour.		Must be enrolled in at least 6 credits.
William D. Ford Federal Direct Subsidized Loan	Loan: A federal loan program with interest and repayment deferred until student leaves school. Student must demonstrate need. Money is borrowed and does have to be repaid.	Up to \$3,500 for freshman and \$4,500 for sophomores.	Must be enrolled in at least 6 credits.
William D. Ford Federal Direct Unsubsidized Loan	Loan: A non-need based federal loan program with principle repayment deferred until student leaves school. Student is responsible for the interest.	Up to \$2,000 for dependent student, \$6,000 independent student based on cost of education.	Must be enrolled in at least 6 credits.

** The above award amounts are for the 2018-2019 academic year and are subject to change. Please check with the Financial Aid Office for more information.*

REGISTRATION

Registration Information

The college produces a schedule of classes prior to the beginning of each term. The schedule contains current course offerings, location of classes, and tuition and fees charged for each class, and is available online at www.clatsopcc.edu. Classes and workshops of less than one term in length may be advertised in the schedule of classes or individually as they occur. To register, use your online MyCCC account and pay for tuition and fees.

All degree-seeking students require advisor clearance prior to registration. Contact your academic advisor or the Student Services Welcome Center for assistance.

Your registration is complete when you have paid tuition and fees or when other funding arrangements have been completed.

Degree-Seeking Students

If you plan to earn a Clatsop certificate or degree or are receiving financial assistance, you must complete the admissions process (See the admissions section of this catalog for more information about becoming an admitted student.). In that process, new students are provided information about college degrees and services, are evaluated for correct placement in courses, and are assigned to an academic advisor. Your advisor will assist you in making informed decisions concerning career planning, in selecting appropriate courses, and in referrals for help with financial or personal issues.

Non-Degree Seeking Students

If you do not intend to complete a degree or certificate, you are still encouraged to register prior to the beginning of the term. No approval is required except for those courses which require instructor permission or course prerequisites as noted in the college catalog and term schedule. If you are unsure of whether you have the academic skills to be successful in a college course, you may arrange for a reading, writing, or math placement assessment. Contact the Student Services Welcome Center at 503-338-2411 for more information or to schedule an assessment session.

Students Under the Age of 18

The College is part of an array of educational services offered throughout Clatsop County. The College does not usually serve students under the age of 18 unless they are high school graduates. However, provisions have been made, in exceptional circumstances, to allow the enrollment of younger students.

Examples of these unique circumstances include:

1. By special contract with a local school district.
2. Through pre-approval of specific classes which are open to younger students.
3. Simultaneous enrollment.
4. By special petition.
5. For GED preparation.

Specific policies and procedures are available from the Student Services Welcome Center. Parents or Guardians of dependent students are responsible for payment of tuition and fees.

Schedule Changes

Administrative Drop

Instructors may administratively drop students who do not attend school during the first week of the term. This procedure applies only to credit classes. A 100% tuition refund will be applied to the accounts of students who have been administratively dropped. Students unable to attend the class during the first week of first class should contact the instructor prior to the class meeting if they wish to avoid being administratively dropped from class.

NOTE: *This procedure does not relieve students of the responsibility to drop. Students who fail to attend or stop attending classes and fail to drop those classes by the published drop deadline will be responsible for the associated tuition and fees.*

Adding a Class

Once the term starts the instructor permission (code) will be required to Add a class. Instructor permission may be granted via a signed Add form. Students are responsible for processing the approved Add form through the Welcome Center. Instructors are available in person during posted office hours, by phone, or via email. Requests to add a course after the first week must be submitted to the Registrar's Office for review.

Students whose names do not appear on the instructor's roster are not officially registered and will not receive credit or grades.

Any student entering a course late will be held responsible for all materials previously covered. Students are not guaranteed make-up privileges and late registrations are not eligible for refunds.

Drop

Students may drop classes online in MyCCC or by filling out the Drop form in the Welcome Center, through the deadline to drop classes, Friday of the first week of the term. Students who officially drop receive a full refund. There is no notation of the class on a transcript. The official drop date is noted in the Student Information System.

Withdrawal

Beginning Saturday of the first week of the term through the 8th Friday of fall, winter and spring (sixth Friday of summer term) students may withdraw online or through the Welcome Center. There is no refund for a withdrawal and a grade of 'W' is noted on a transcript. The date the student withdraws online or notifies the Welcome Center of their intent to withdraw is the official last date of attendance. The official withdrawal date is noted in the Student Information System. Requests to

REGISTRATION

withdraw from a course after the 8th week must be submitted to the Registrar's Office for review.

Audit

Students who do not wish credit for a course may register for audit. The following conditions apply to course audits:

1. Some courses may not allow auditors.
2. Instructors accepting auditors may expect those students to meet some or all of the same course requirements as credit seeking students. These requirements will be made clear on the course syllabus or by the instructor.
3. An audit does not satisfy requirements for entry into courses where prerequisites are specific. For example, auditing Writing 121 will not satisfy the prerequisite for Writing 122.
4. Audited courses do not meet requirements for enrollment status required for Veterans, Social Security benefits, or Financial Aid. For example, a student needs twelve credits to be a full-time financial aid student, none of the twelve credits can have an audit status. Students should be aware that scholarships or funding from outside agency sources may be adversely affected by auditing a course.
5. Registration, tuition and fees are the same as for credit courses.
6. Changing from audit to credit requires instructor approval.
7. Changing from audit to credit or from credit to audit must be completed by the end of the 7th week of the academic quarter except for summer quarter, where changes must be completed by the end of the 6th week.

Transcripts

Your student transcript lists courses in which you are enrolled each term. This is your permanent, cumulative record of enrollment and grades. Dean's List, and Phi Theta Kappa are also noted on your transcript.

You may obtain a transcript by submitting a Transcript Request Form to the Student Services Welcome Center. Your transcript will not be issued if you have defaulted on a student loan or have financial obligations to the College including college-owned equipment, supplies or library books or materials.

If you retake a course for which you have already received a grade, the later grade will be transcribed and used in computing your grade point average (GPA). The earlier grade is removed from computation of the earlier term GPA and the cumulative GPA. You will be allowed two retakes to improve your grade. Subsequent retakes will be transcribed, but may not be used to meet degree requirements. This does not apply to transfer courses.

Notations of P, I, NC, W, and AU are not used in computation of the grade point average. Retakes of courses for which you previously received non-passing grades, or grades lower than required by your program, can be funded by financial assistance.

One retake of courses for which you previously received a passing or required grade may be funded.

You can access your grades online through your MyCCC account.

Student Records

You have access to your records defined by the College as educational records. Examples of some student records are your admission application, transcript, and financial assistance data. For more information regarding access to your student records and other data the College is required to provide to you, see the "Student Consumer Information" section on page 22 of this catalog.

Directory Information

Clatsop Community College (CCC) has designated the following student data as "directory" information and it may be released without prior written authorization from the student:

- Name
- Address
- Major field of study
- Terms of attendance
- Degrees and awards received

If you do not want information released, you must indicate so in writing by completing a Request for Non-Disclosure of Student Information Form. These forms are available at the Student Services Welcome Center.

Clatsop Community College shall follow all applicable state and federal laws, rules, and regulations, which apply, to student records. All information contained in the college records which is personally identifiable to any student shall be kept confidential and not released except upon prior written consent of the subject student or upon the lawful subpoena or other order of a court of competent jurisdiction. Student information may be shared among college faculty and staff on an official (need to know) basis.

Solomon Act

Federal law requires CCC to provide student name, address and telephone number to the military for recruiting purposes.

Academic Information

Degrees

The College offers four degrees:

- Associate of Arts, Oregon Transfer (AAOT);
- Associate of Applied Science (AAS), in many majors;
- Associate of General Studies (AGS); and
- Associate of Science, Oregon Transfer Degree (ASOT).

Specific information may be found on pages 24-81. You may earn more than one degree at Clatsop Community College. To be awarded an additional degree or degrees, however, you must complete at least 24 credits of coursework different from each of the previous degree(s). In addition, you must fulfill all the specified requirements for each new degree. Degrees will be awarded once you have completed the graduation petition process.

Certificates

The College also offers structured state-approved certificates in particular Applied Science fields. Specific requirements are listed in the program descriptions in this catalog. A one-year certificate may not be awarded concurrently with or subsequent to a degree in the same applied science program.

The College offers three types of certificate:

- Career Pathway Certificate: typically 12-18 credits of coursework that provides a specific subset of skills.
- Less than One-year Certificate: fewer than 45 credits of coursework.
- One-year Certificate: a minimum of 45 credits of coursework.

At least 12 credits must be earned at Clatsop to receive any of these certificates from the College. Additionally, there are mathematics, writing, and human relations requirements for the Less than One-year, and One-year Certificate programs. Please see your advisor or the Student Services Welcome Center for further information.

Warranty

Clatsop Community College warrants the competencies you develop while obtaining an Associate of Applied Science (AAS) degree. If, during the two years immediately following completion of the AAS degree requirements, you need to upgrade skills or acquire additional training in your professional/technical specialty, certain eligible courses may be attended tuition free on a space-available basis. All fees remain your responsibility.

Eligible courses include any which meet major requirements in the degree program under which you graduated and occupational supplementary courses determined to be in the applicable occupational specialty. The Vice President for Academic and Student Affairs may approve appropriate Professional-Technical supplementary courses on an individual basis.

Academic Advising

When you are admitted to a certificate or degree program, the college provides you with academic advising to assist with your exploration of career and educational goals; development of a plan for completing degree requirements; and selection of courses each term. Advisors can also provide referrals to help you resolve financial or personal issues, and assist you in understanding institutional policies and procedures. Degree-seeking students must meet with an advisor prior to registering.

Academic Terms

The College is on a quarter term system, meaning there are four times during the year when most course offerings begin and end. The major course offerings are provided in the fall, winter, and spring terms. For specific dates for when courses will be offered, students can view an academic calendar on page 163 of this catalog. Students should also refer to the Clatsop Community College Schedule of Classes, available at www.clatsopcc.edu, for detailed information about what classes are offered during each term in the academic year.

The College offers a limited selection of course offerings during the summer. Lower division transfer, professional-technical, self-improvement and basic skill courses are offered.

The College is closed on Fridays July through Labor Day.

Credit

Your credits are earned on the basis of your successful completion of course requirements. The number of credits assigned to each course is usually related to the number of hours you spend in class. One credit is earned for each hour of lecture/discussion class attended per week. Laboratory and studio experience usually require two or three hours of attendance for each credit earned. Most courses have been assigned a definite number of credits per term, but some have been given variable credits. In some variable credit courses, the number of credits will be determined by your progress during the term.

Credit by Examination

Credit by examination recognizes alternative routes to obtaining college-level knowledge and skills independent of the classroom. The intent of this method for awarding credit is to enable you to proceed through an established program in accordance with your present ability and knowledge. To ensure that you have achieved at the same level as any other student completing the course, the following conditions have been set forth for gaining credit through examination:

1. You must be enrolled in a diploma or degree program before a credit by examination petition (challenge) can be initiated. Exceptions may be granted by the Vice President for Academic and Student Affairs.
2. You must submit a formal application approved by the Administrative Assistant to the Vice President for Academic and Student Affairs, your advisor, and the instructor who will administer the examination.

Academic Information

3. You may elect to challenge a course in which you are currently enrolled, provided the class is formally dropped prior to the beginning of the fourth week of classes. Courses in which you have previously enrolled and received a grade may not be challenged.
4. You may not challenge more than 24 credits. Credits earned through examination cannot be counted for the degree completion requirement of "complete at least 24 credits at Clatsop Community College". A maximum of six credits, taken by examination, may be in cooperative work experience.
5. The faculty of the College offering the instruction in the challenged course will be responsible for the formulation, administration, and compilation of the results of the equivalency test in accordance with other provisions of this policy. The examination may be either oral, written, performance, or a combination of these methods of evaluation. Under no circumstances will the requirement for credit by examination exceed the pre-established criteria for the course.
6. Examination for course credit may be taken only once. If successful, you will receive the grade of pass and the letter "P" will be entered upon your transcript. If unsuccessful, you will receive a "N/C" on your transcript. Credits so earned will not be calculated in your grade point average.
7. Courses involving laboratory or shop experience may be challenged in the same method as any other course; however, you must supply written references from qualified individuals indicating your sufficient background experience to cause a waiver of the laboratory or shop time.
8. Credits earned by examination may not exceed the total credits previously earned at Clatsop Community College in regular course work. Should a challenge be approved during your initial quarter at Clatsop, credit for the challenged courses will not be applied until evidence of your successful completion of regular course work is entered into your transcript.
9. The College charges regular tuition for all credit by examination courses. Once the Vice President for Academic and Student Affairs approves the application for a credit by examination course, the student will pay a nonrefundable charge, 50% of the tuition, before the exam is administered. After the exam is administered, the student will pay the remaining 50% of tuition before the course is recorded on his/her transcript. Credit by exam courses cannot be paid for with financial aid.

All the conditions set forth above are applicable to each student requesting course credit through examination. Any waiver of these conditions must be at the approval of the President of the College and these conditions are subject to change. For information or assistance regarding Credit by Examination, call the office of the Vice President for Academic and Student Affairs at 503-338-2440.

Credit for Prior Learning

You may earn college credit by documenting learning acquired through job experiences, travel, hobbies, and family and civic responsibilities. Your prior learning must be documented using a portfolio so that faculty can evaluate the learning and award appropriate college credit. A maximum of 24 credits can be earned through credit for prior learning. Call Student Services for information on developing and evaluating your portfolio.

Work Experience (Cooperative Education)

Work Experience (Cooperative Education) is a nationally recognized program granting academic credit for various supervised internships. Work Experience staff advise you in the program and assist you with registration.

Work Experience staff work with local employers to find learning and career opportunities for students. In addition, staff meet with you and your supervisor at the job site at least twice during the academic quarter to discuss your progress toward completing your learning objectives. Call 503-338-2480 or email cwedirector@clatsopcc.edu for more information.

Companion Classes: A work experience seminar course is offered to augment the cooperative education experience. If you are enrolled in a work experience course, you must take the work experience seminar course concurrently, unless you have completed it in a previous term.

Job Placement: The Career Center receives job opportunities from employers. Local positions are posted in Columbia Hall, 2nd floor, near the cafe.

Independent Study

Clatsop Community College allows, under specific circumstances, the use of independent study classes (also called R & C) by students. The classes will be approved only after all other alternatives are explored. The classes must be approved by instructors first. If the instructor genuinely believes that circumstances warrant a class to be offered as an independent study class, the instructor may petition the Office of Instruction on your behalf. The petition will include the reasons for offering this class as independent study and proposed class activities and assignments. This petition needs to be signed by the instructor, student, and advisor before it is forwarded to the Office of Instruction. For more information call 503-338-2440.

Transfer Credit

Coursework for which you earned a "C" or better grade from a regionally accredited institution may be accepted to meet degree or certificate requirements at Clatsop Community College. Transfer coursework, although it may be used to meet requirements, will not be included in your Clatsop Community College cumulative grade point average.

Academic Information

Continuing Education Units

The college works in conjunction with various professional associations and employers to offer continuing education units (CEUs) as a form of certification for the successful completion of specified occupational instruction. The CEU is a measure of the amount of professional upgrading instruction that you have successfully completed. Contact the Community Education office for more information about specific classes.

You may not earn CEUs and academic credit for the same class. Therefore, you may not pay for classes awarding CEUs with financial assistance funds and CEUs do not count toward financial assistance satisfactory progress eligibility or toward degree completion.

Course Numbering/Grading

1. Most of the courses that are fully transferable to Oregon University System universities are graded on the A - F system. A few courses are graded pass or no credit (P/NC). Information regarding grading is available in the course syllabus which the instructor distributes during the first week of class.
2. Courses that are primarily professional-technical in nature are designed to prepare you for particular skills and trades. Most of these courses are graded on the A - F system. An exception is the Work Experience classes which are graded pass or no credit (P/NC).
3. Alpha-numeric courses below 100 are not designed for transfer to other colleges or universities within the Oregon University System. (Most of these courses are graded P/NC.) A few are graded on the A - F system.
4. Alpha-prefixed courses, such as MUS0511, which have a zero (0) in the fourth place, are non-credit general self-improvement or hobby and recreation courses.

Grading Policies

By Friday of the first week of classes each term, you will be provided a course syllabus for each credit class in which you are enrolled. The course syllabi will provide required and recommended course syllabus components established in the Office of Instruction Course/Instructional Program Handbook.

If you understand the objectives and know how well you have done in achieving them, you will generally not be disappointed with your grades.

Graded work at Clatsop Community College is based on the following guidelines (grade point value is also indicated):

A - Excellent (4.0)

1. Scores superior on examinations and/or assignments.
2. Shows independent thinking in terms of the subject matter of the course.
3. Shows a grasp of the relationships among various parts of the subject.
4. Asks questions which are appropriate and which stimulate relevant discussion by the instructor and/or students.
5. Complies with the stated criteria set forth by the instructor.

B - Commendable (3.0)

1. Scores above average on examinations and/or assignments.
2. Presents sound ideas on subject matter of the course.
3. Shows a grasp of the general organization of the subject matter.
4. Asks appropriate questions which clarify the presentation of the subject.
5. Complies with the stated criteria set forth by the instructor.

C - Satisfactory (2.0)

1. Scores average on examinations and does average work on assignments.
2. Presents evidence of a grasp of the subject matter of the course.
3. Asks relevant questions.
4. Complies with the stated criteria set forth by the instructor.

D - Minimal (1.0)

1. Scores below average on examinations; completes assignments at below average level, or fails to complete them.
2. May follow the course of discussion by others, but contributes little.
3. Shows some grasp of portions of the subject matter but little grasp of the overall picture.
Complies with the stated criteria set forth by the instructor.

F - Unacceptable (0.0)

1. Scores unsatisfactory on examinations; completes assignments at an unsatisfactory level or fails to complete them.
2. Shows little or no grasp of the subject matter.
3. Does not comply with the stated criteria set forth by the instructor.
4. A student has not attended, or attended but not completed any work that can be evaluated in a credit class or workshop that does not follow the traditional academic term.

AU - Audit (N/A)

You may register for audit if you do not wish to receive credit for a course. For more information see page 11.

I - Incomplete (0.0)

At the request of the student, an instructor may award an incomplete if at least 70 percent of the course work has been completed and the student demonstrates intent to finish the required work. An instructor will provide the student with a statement describing work needed to complete the course and a copy of such statement will be maintained in the Registrar's office through the SeaNet grading system.

An incomplete does not imply an offer of tuition-free re-enrollment in the class. Students will be allowed a maximum of one academic term to correct deficiencies noted on the statement of incomplete status. Incompletes received for spring term may be corrected during fall term of the following academic year. Under extenuating circumstances as approved by the Vice President for Academic and Student Affairs, students will be allowed an extension beyond the deadline noted above for finishing an incomplete. Incompletes are temporary notations. If courses are not completed, an instructor-designated grade will be issued.

Academic Information

NC - No Credit (0.0)

A designation used for a student who does not do passing work in a Pass/No Credit class. The designation can also be used when a student has not attended, or attended but not completed any work that can be evaluated in a credit class or workshop that does not follow the traditional academic term.

P - Pass

You may earn credit for a course which is graded on a pass/no credit basis. The "P" grade denotes a level of accomplishment of "C" or higher. You may apply a maximum of 24 credits of "pass" grades toward a degree.

W - Withdrawal

A student-initiated withdrawal. See page 10.

Academic Standards

To graduate from Clatsop Community College with a degree or certificate you must have a cumulative grade point average of 2.0 for all Clatsop Community College coursework.

If you are receiving funding from an external source such as financial assistance, scholarships or Veterans benefits you will be required to maintain satisfactory academic progress in order to continue to receive benefits. (Review the Financial Assistance, Scholarships, and Veterans sections of this catalog for details on satisfactory progress requirements.)

Graduation

To graduate from Clatsop Community College you must file a graduation petition with the Student Services Welcome Center. All students must meet with an academic advisor to complete the petition for graduation. This must be submitted no later than the end of the first week in the term in which the student is graduating.

No student shall be issued a degree or certificate who has not earned a cumulative grade point average of 2.0 for all Clatsop College coursework and completed a minimum of ninety pre-approved credits for an Associate Degree or a minimum of forty-five credits for a Certificate. Please check specific degree and certificate requirements. You must be admitted to a degree or certificate program to graduate. (See Student Services for information). You must complete at least 24 credits at Clatsop for a degree (12 credits at Clatsop for a certificate).

You may graduate under the academic requirements in effect for you major in any year in which you were degree-seeking and enrolled in courses counting toward your degree or certificate. This may not exceed five years prior to your graduation date. You may not mix requirements from two or more academic years.

To ensure professional standards are met, select program may require specific courses to ensure graduates meet professional standards.

Multiple Degrees: You may earn more than one degree at Clatsop Community College. To be awarded an additional degree or degrees; however, you must complete at least 24 credits of coursework different from each of the previous degree(s). In addition, you must fulfill all the specified requirements for each new degree.

Student Responsibility: It is the responsibility of you, the student, to know and to observe the requirements of your degree or certificate program and the rules governing academic work. Although your advisor will attempt to help you make wise decisions, the final responsibility for meeting the requirements for graduation rests with you.

Graduation Fees: Caps and gowns must be ordered and paid for at the college store by the end of the first week of spring quarter for all students attending commencement.

Honors and Awards

Clatsop Community College recognizes superior academic achievement and distinctive service by:

Transcribing term honors and recognition:

- Dean's List (Degree-seeking; 12 or more graded credits; 3.75 to 4.00 grade point average)
- Honor Roll (Degree-seeking; 12 or more graded credits; 3.5 to 3.74 GPA)
- Phi Theta Kappa eligibility (12 or more graded credits and a 3.50 GPA first term; 3.00 GPA thereafter)

Graduation With Honors/High Honors

At commencement, qualifying students are recognized as meeting requirements for graduation with honors or high honors based on the cumulative grade point average at the end of the winter term. To qualify for honors, you must have a cumulative grade point average of 3.50 to 3.74. To qualify for high honors, you must have a cumulative grade point average of 3.75 to 4.00. Transfer work may meet requirements for coursework for which you earned a grade of "C" or better but is not computed in your cumulative grade point average.

Conferring other honors and awards:

- ASG recognition cords (ASG Officers at graduation)
- President's Award
- Instructional Council Award (highest Clatsop GPA for graduating associate degree recipient)
- Certificates of Appreciation
- Department awards
- Graduate Marshals
- Phi Theta Kappa cords at graduation

Academic Information • Services

Dora Badollet Library & Learning Commons

The Clatsop Community College Library is the gateway to the world of information. Services available at the Library include online databases with journals, magazines, ebooks, streaming video, and books, as well as Internet access, distance education, and more. The Library staff is available to help students with research questions and projects. Study spaces include quiet areas, as well as areas for group and collaborative study. Study rooms are available for reservation by individuals or groups.

The Learning Commons on the top floor of the Library provides writing tutoring, interactive study areas, tutor coordination, and the student computer lab.

To search library resources, renew items, or find out more about the Library & Learning Commons, including current hours and location, visit <http://lrc.clatsopcc.edu> or call (503) 338-2462.

Testing Center

The Testing Center administers a variety of tests, including the college placement test (ACCUPLACER) and GED tests. Tests for distance education coursework can also be taken in the Testing Center by making arrangements with both the originating institution and the Testing Center staff.

Tests are administered by appointment only. For more information call 503-338-2426.

Distance Education

Clatsop Community College offers online classes to serve students unable to enroll in traditional on-campus courses.

Online courses allow students to take classes at their convenience from home or workplace. Students need access to a computer with internet browser software and an Internet Service Provider account to access course material, to turn in assignments, and to communicate with the instructor and classmates. Some of these online courses are provided by colleges around the state, but most are developed by instructors here on campus. Contact Kirsten Horning in the Library for details, 503-338-2341.

Degree Partnership Programs

Oregon State University (OSU) and Portland State University (PSU)

The Degree Partnership program with OSU and PSU offers Clatsop Community College (CCC) students the opportunity to be jointly admitted and eligible to enroll concurrently at OSU or PSU and CCC. Admission applications are required for both schools. Applicants must select the “degree partnership program” when completing the university’s admission application, and must meet OSU’s or PSU’s standard admission criteria. For more information about the OSU/CCC or PSU/CCC Degree Partnership Program contact the Student Services Welcome Center at 503-338-2411.

Eastern Oregon University (EOU) Bachelor Degree Partnership

Eastern Oregon University partners with the College to offer campus programs. EOU's program, located on the CCC campus, offers a live classroom setting primarily designed to meet the needs of adult-learners and transfer students. Most transfer students balance personal and professional experiences with their academic goals including family responsibilities, work, and community commitments. This program offers evening and/or weekend courses to compliment these commitments. Up to 120 credits from Clatsop Community College can be transferred to EOU to meet their degree requirements. Upon completion of the program, students will receive a Bachelor of Business Administration degree from Eastern Oregon University.

Students are co-admitted to both CCC and EOU. EOU will not charge out-of-state tuition to students. EOU advisors provide personal advising in their associate and bachelor’s degrees in business administration. Students can combine the academic resources of two institutions. Student can enjoy library privileges at CCC and EOU (online). For additional information visit eou.edu/astoria.

Apprenticeship Training

Related classroom training for registered apprentices is coordinated through the Office of Instruction. It is taught according to Oregon’s Law and Plan of Apprenticeship and Training, the U.S. Department of Labor, and the Oregon State Apprenticeship Council. Classes cover technical areas of the trades and are intended to complement skills learned on the job. Apprenticeship related training offered through Clatsop Community College currently includes plumber, inside wireman, plant electrician. This program is for indentured apprentices only. Call 503-338-2352 or 503-338-2402 for information.

You can obtain information on how to become an apprentice from the Oregon Bureau of Labor and Industry, Apprenticeship Training Division, 800 NE Oregon St. #32, Portland, Oregon 97232; telephone 503-731-4072 ext. 270; Clatsop Community College, 503-338-7696.

Tutoring

Need help with your math homework? At the Math Lab in Towler Hall room 211, qualified tutors can assist you with any level of mathematics. There are textbooks and solution guides available, as well as a bank of computers where students in 60, 70, or 95 can work on ALEKS. To use the MAC, you just need to sign up for a 0-credit, no-cost class. See one of the tutors for details. You can sign up at any point during the term. Hours are posted. Tutoring for writing and other subjects is available in the Learning Commons on the top floor of the Dora Badollet Library.

Secondary Education

Educational Talent Search

Educational Talent Search (ETS) identifies and assists students in 6th through 12th grades who have the potential to succeed in higher education. ETS provides academic, career, and financial advising to its participants and encourages them to graduate from high school and continue on to the postsecondary institution of their choice. Educational Talent Search also serves high school dropouts by assisting them in reentering the education system to complete their education.

ETS services include:

- Academic, financial, career, or personal counseling including advice on entry or re-entry to secondary or postsecondary programs
- Career exploration and aptitude assessment
- Tutorial services
- Information on postsecondary education
- Exposure to college campuses
- Information on student financial assistance
- Assistance in completing college admissions and financial aid applications
- Assistance in preparing for college entrance exams
- Mentoring programs
- Special age-appropriate activities for sixth, seventh, and eighth graders
- Workshops for the families of participants

Educational Talent Search is 100% funded by the U.S. Department of Education TRIO programs. For information contact the Educational Talent Search office 503-338-2370.

Upward Bound

Upward Bound (UB) provides advising, tutoring, mentoring, cultural enrichment and academic instruction for eligible students in the 9th through 12th grades. Through academic year and Summer Academy activities, UB provides opportunities for participants to succeed in their pre-college performance and ultimately in their higher education pursuits.

Upward Bound services include:

- Academic, financial, and personal counseling
- Exposure to academic programs and cultural events
- Tutorial services
- Mentoring programs
- Information on postsecondary education opportunities
- Assistance in completing college entrance and financial aid applications

- Assistance in preparing for college entrance exams
- Summer Academy, a college simulation experience including instruction in reading, writing, study skills, and other subjects necessary for success in education beyond high school

Upward Bound is 100% funded by the U.S. Department of Education TRIO programs. For information contact Upward Bound at 503-338-2370.

Staffing

Laurel Fleet	Admin
Katherine Johnson	Admin
Meredith Payton	TS College/Career Advisor
Kasey White	TS College/Career Advisor
Troy Henri	TS and UB College/Career Advisor
Matt Bisek	UB College/Career Advisor
Vanessa Garner	TS and UB Tutor Coordinator

Trio Student Support Services (Trio SSS) Program

TRIO SSS supports students in becoming successful at Clatsop and graduate and/or transfer to a university. TRIO SSS students must be degree seeking at Clatsop, and must meet at least one of the following criteria: 1) First generation (the adults in the household do not have a bachelor degree), 2) low income, and/or 3) have been diagnosed with a disability.

Services TRIO SSS provides:

- Academic advising and career exploration
- Transfer assistance and campus visits
- Financial literacy training
- Tutoring
- Technology Support – check out laptop computers and graphing calculators
- Textbook lending library
- Math Boot Camp
- Scholarships

TRIO SSS is 100% funded by the U.S. Department of Education. Contact the TRIO SSS office at 503-338-2346, or stop by our office in 312 Towler Hall. You can also visit our website at www.clatsopcc.edu/Plus and complete our online application.

Carl D. Perkins Career and Technical Education Act of 2006

The Carl D. Perkins Career and Technical Education Act of 2006 provides federal funds to develop the academic, career, and technical skills of high school and community college students by:

- developing challenging academic standards;
- integrating academic and professional technical instruction, and linking high school and community college education;
- developing, implementing, and improving professional technical education;
- providing professional development to improve professional technical education programs, services and activities.

Specifically, the grant provides for improving the linkage between the area high schools and Clatsop Community College in the following program areas:

- Business & Management
- Health Occupations
- Industrial & Manufacturing Technologies

Funding is available for staff training and curriculum development, including inservice training of both professional technical and academic instructors working with professional technical students for integrating academic and professional technical education. Call 503-338-2506 for information.

Business Services • Services

Workforce & Customized Training

The mission of Workforce & Customized Training is to assist businesses with identifying their learning needs and delivering training to ultimately increase performance. Training topics may include hiring and supervising, job analysis, customer service, computer software, new employee orientation, safety and regulations, hospitality service, medical, industrial, and manufacturing. In addition, there are pre-employment preparation opportunities for job seekers, refresher workshops, and skills upgrades. Training is geared to meet the scheduling needs of the business, staff, and the general public. For more information call 503-338-2408.

Clatsop Economic Development Resources (CEDR)

CEDR is the regional Economic Development Organization for Clatsop County, and is the “one stop” business resource in the region for business recruitment, retention and expansion.

CEDR collaborates with local, state, and federal partners, including the cities of Astoria, Cannon Beach, Gearhart, Seaside, Warrenton, Clatsop County, and is aligned with Clatsop Community College. CEDR also works closely with Business Oregon, the economic development agency of the state of Oregon, and Col-Pac EDD (Economic Development District), federally designated.

CEDR's Mission: Deliver business-driven economic development services to Create, Grow & Retain Clatsop County Businesses.

CEDR's Vision: Prosperous communities and quality jobs for Clatsop County residents.

CEDR Contact Information: 503-338-2402.

Email: sbdc@clatsopcc.edu. Website: clatsoped.com

CCC SBDC

The CCC Small Business Development Center is dedicated to ensuring entrepreneurs and small business owners have access to the resources needed to be successful. We serve the full spectrum of business stages- so whether you are pre-launch, expanding, or planning your exit strategy, our team is committed to helping your small business succeed. Our services include free and confidential one-on-one business advising, education, tools and more across a wide range of topics, including:

- Capital Access
- Book keeping & Business Accounting
- Business Planning
- Cash Flow Management
- Customer Service
- Exit Strategy & Succession Planning
- Financial Planning & Management
- HR, Hiring & Employee Relations
- Insurance
- Marketing & Sales
- Social Media

- Start-up Assistance
- Systems & Technology

We offer two locations to serve the county (Seaside and Astoria). To request a free business advising appointment or to learn more, call us at 503-338-2402 or visit bizcenter.org/centers/clatsop-sbdc/

Small Business Management

If you are a business owner, the Small Business Management Program is a comprehensive 9-month business management program designed to enhance your skills and abilities in order to achieve greater business success. The program includes classroom sessions covering a variety of business topics and is a unique opportunity to gain new insights and exchange ideas with other business owners. The program also includes bi-weekly coaching sessions with an assigned Small Business Advisor to help apply the coursework to the most pressing areas of your business in a completely confidential manner. The course covers a variety of subjects critical to every business including: business planning, leadership, management, financials, sales & marketing, customer service, HR, legal, insurance and technology/systems. You will receive a certificate of completion at the conclusion of the program. Additional information about this program can be obtained by contacting the CCC Small Business Development Center at 503-338-2402.

Clatsop WORKS

The Clatsop WORKS program was developed to provide local students, ages 16 and up, with exposure to professional paid internship opportunities in Clatsop County, with the goals of community building, economic development, promoting local opportunities and retaining local talent.

Paid internships will be during the summer, and will last from 8-10 weeks, depending on the employer. For interns, the goal of this program are as follows: to help build job application, resume and interview skills; develop work ethic and professionalism; develop career readiness and technical skills; and to highlight local opportunities in Clatsop County. To request information or to learn more, call us at 503-338-2507.

Career Services

Assistance with career planning, choosing a college major, and finding career-related internships is available to all CCC students. Students with clear career goals complete college degrees at much higher rates than “undecided” students.

Available services include: individual career counseling with a qualified Career Counselor; personality and interest assessments; a career library; and assistance using relevant career information websites including Oregon CIS (Career Information System), O*NET and OLMIS.

Call 503-338-2480 to schedule an appointment or request assistance with any aspect of the career planning process. You can also email questions to career.services@clatsopcc.edu.

Lives in Transition

The Lives in Transition (LIT) program is designed to assist individuals gain greater self-sufficiency, explore career/vocational options, and develop personal action plans. To successfully complete the program, students participate in two, three credit classes: "Life Transitions" and "Overcoming Barriers: A Holistic Approach to Student Success." Classroom activities and discussions cover topics, such as:

- Improving self-esteem
- Promoting assertiveness and boundary-setting techniques
- Understanding the grief process
- Enhancing communication skills
- Learning and practicing stress management skills, and
- Developing educational, career or vocational goals.

A resource room is available to provide on-going support, guidance and camaraderie. The LIT program is free to participants and may include partial reimbursement for childcare and transportation expenses. For more information or to sign up for the mandatory, pre-class orientation, call 503-338-2377.

Counseling

Short-term, confidential professional counseling, provided free of charge, is available to support students dealing with personal challenges that may affect their college performance. This may include help in managing stress, interpersonal conflicts, decision-making, personal crisis events, screening consultations for mental health and/or substance abuse problems, and other personal concerns. Resource information and referral is provided regarding support groups, self-help courses, and various community health and other support services. Counseling requests can be made through the Student Services Welcome Center front desk staff; or contact Anne Mabee at 503-338-2409, amabee@clatsopcc.edu, Towler Hall 104B.

Disability Services

The college provides equal opportunities for students with disabilities. Students with documented disabilities receive reasonable accommodations consistent with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. The Disability Services Office provides a variety of support options to assist students in achieving their educational and/or career objectives. To receive services, students must self-identify and request services. Instructors will provide accommodations to students after receiving instructions from the Disability Services Office. Instructors are not required to provide accommodations to students without written instructions from the Disability Services Office. Examples of services include: campus orientation, alternative formats of textbooks or other educational materials, extended testing time, distraction-reduced testing locations, sign language interpreters, student advocacy, and resource referral. For more information or if you think you are eligible for services, contact the Disability Services Coordinator at 503-338-2474, TDD 503-338-2468, disabilities@clatsopcc.edu.

Veterans Educational Benefits

Students who are eligible for VA Educational Benefits must meet with the VA School Certifying Official (SCO) located in the Financial Aid Office to submit their VA Certificate of Eligibility and complete other required paperwork in order to begin using benefits. The SCO will provide information about policies, benefits, responsibilities and other resources. Enrollment information and academic progress will then be reported to the VA and monitored at CCC.

Eligibility/VA Application: The VA determines eligibility for benefits and a student may have choices to make to determine under which benefit chapter they wish to receive benefits. Students must submit an application to the VA through the VONAPP (VA On-line application) process which can be accessed through www.ebenefits.va.gov in order for benefits to be determined or call the VA at 1-888-442-4551 with questions. The CCC SCO is not able to determine a student's eligibility for VA benefits.

Program of Study: To be eligible for VA benefits, students must be officially admitted to an approved certificate or degree program offered by CCC before the start of the term they request benefits. Only courses applicable toward the certificate or degree program and their pre-requisites can be certified for benefit payment. Classes are certified to the VA for the actual date span and credit count of the individual classes regardless of term dates.

Transfer of Credit: Students who have received college credits prior to entry at CCC either using VA educational benefits or not must provide official transcripts to CCC for evaluation. The VA will not pay for a student to repeat any classes they have previously passed successfully.

Satisfactory Progress: Students receiving VA Educational Benefits are required to follow Satisfactory Academic Progress in order to maintain their benefits. This includes a cumulative Grade Point Average (GPA) of 2.00 and a completion rate of two-thirds of attempted credits at the end of each term. Benefits can be suspended if the student ceases to make satisfactory progress as defined in policy. Students applying for VA benefits will be given a copy of the Satisfactory Academic Progress Policy and can find it online under the Veterans Educational Benefits section on the college website along with other important information. Note: Students receiving federal financial aid must also follow CCC's Financial Aid Satisfactory Academic Progress which may differ.

Food Service and Bookstore

Food Service is available in Columbia Hall Café until early afternoon when classes are in session and serves meals and snacks. The Astoria Coffee Bar is located in Towler Hall on the west end of the first floor. Grab and go salad and sandwich selections are available in addition to beverages. The Bookstore is on the first floor of Columbia Hall and provides textbooks and other class materials. Food and beverage items are also available. You can contact Food Service at 503-338-2338, and the Bookstore at 503-338-2447.

Services

Student Government Leadership Opportunities

The Associated Student Government (ASG) is a nonprofit student organization that coordinates student activities on campus and provides assistance and service to the student population. ASG officers hold office hours as their schedules permit.

Students may participate in student government by registering for the EDU 120 Student Leadership class. Student government provides Clatsop Community College students with the opportunity to gain leadership skills and to help other students. Student government officers plan campus activities, develop the yearly budget, purchase equipment, and participate in various community service events. They also serve as members of some campus committees, providing advocacy for students in campus decision-making.

For more information on how you may participate in student government, visit the Student Services Welcome Center or call (503) 338-2411. To contact your student government representative email asg@clatsopcc.edu

Organizations and Activities

Out-of-class activities are as important for education as traditional course work. At Clatsop, there are recreation and social activities throughout the year. If you have a special interest, you are invited to form a club and seek ASG approval as a recognized student organization.

Community Education

Clatsop Community College's Community Ed. program offers a variety of noncredit classes that are both fun and informative. Each term, we strive to offer a variety of classes that enrich lives and inspire learning in our community. Courses range in topic from Art and Writing to Health and Wellness. Classes vary in length from single-session workshops to ten-week courses that meet up to five days a week. Community Education classes are taught by experts who reside in our community and want to share their knowledge with you. Sign up to take a class today and enrich your life through Community Ed. For more information, visit clatsopcc.edu/communityed or call 503-338-2408.

ENCORE

ENCORE (Exploring New Concepts of Retirement Education) is a member-run learning in retirement organization. ENCORE is a member-run organization dedicated to providing quality educational opportunities and adventures for older adults, meeting the intellectual and cultural needs of its members. ENCORE offers a broad spectrum of programs and promotes an environment that fosters personal growth, vitality, and celebrates lifelong learning.

ENCORE members pay annual dues to the organization and may attend any or all of the ENCORE scheduled classes of interest. Call 503-338-2408 for additional information.

Arts & Ideas

In our mission to bring fine cultural programming to the Columbia Pacific Region, the Clatsop Community College Arts & Ideas program presents a wide spectrum of events throughout the year. Working with regional and nationally known artists, professionals and educators, Arts & Ideas provides opportunities for creativity and learning to audiences in a setting of artistry and education. Events presented in the annual series include forums, dance, music, theater, lectures, and films.

The Arts & Ideas program is supported by Clatsop Community College and our community partners. To find out more about the Arts & Ideas program visit www.clatsopcc.edu/artsandideas.

Adult Education and Family Literacy

The purpose of Adult Education and Family Literacy programs is to help you improve your basic reading, writing and mathematics skills. Instruction in basic skills enhances your opportunities for success in continued academic learning and in the workplace. Course offerings include basic skills classes, college preparation, GED, and English Language Learners (ELL). Career and workforce skills are integrated into the courses.

College Preparation Courses/Reading and Writing Improvement

College preparation courses help you strengthen the reading, writing, and mathematics skills needed to prepare for college transfer classes, vocational programs and the workforce. After completing the ACCUPLACER placement, your assigned advisor will direct you to the appropriate courses.

General Educational Development (GED)

The GED program offers classes for you to prepare for the GED certificate tests. The GED is accepted as a substitute for a high school diploma by most employers, apprenticeship programs and colleges throughout the United States. In Oregon the certificate is awarded by the Oregon Department of Education.

If you are interested in obtaining your GED, call 503-338-2347. Day and evening classes are offered at various sites.

English Language Learners

English Language Learner (ELL) classes are designed to help non-native speakers gain skills in reading, writing, and speaking. Strengthening English skills will increase opportunities for success in college courses and the workplace. Classes are offered in Astoria and at other community sites.

Services • Information

Literacy Program

Tutors are available to assist basic skills and ELL students with reading, writing, math, citizenship and workforce skills. Free tutor training is offered throughout the year. If you are interested in volunteering for the Volunteer Literacy Tutor program or want to refer someone for tutoring, phone 503-338-2557.

Volunteer Literacy Tutoring Program

Students and community members interested in assisting those learning to read and to speak English can participate in the volunteer literacy tutor program. Trainings are offered throughout the year and focus on both adult literacy and English Language Learning. Trained volunteers are matched with eager learners by the Volunteer Literacy Coordinator. For more information, call 503-338-2557.

Students' Rights, Responsibilities and Conduct

The College has established policies and procedures governing student rights and responsibilities, and outlining the rules for student conduct, procedures for disciplining students, and the process for filing student complaints. These policies and procedures are published in the Student Handbook and on the College's website at www.clatsopcc.edu. Copies of the handbook are available in the Student Services Welcome Center, or call 503-338-2411 to request a copy. Any changes to student policies and procedures made after the handbook has been published are also available in the Student Services Welcome Center or on the College website.

Discrimination Complaint Procedure (Including Sexual Harassment Discrimination)

These procedures shall be used for complaints related to the College's discrimination and harassment policies. The process shall not be used for contract grievances or personnel matters which do not involve alleged acts of discrimination or harassment.

In addition to filing a complaint with the College, a complainant may file with any of the state or Federal agencies with authority in monitoring compliance: Equal Employment Opportunity Commission, the Office of Civil Rights, the State Department of Education, the Bureau of Labor and Industry.

Orderly and Timely Process: the intent of the procedure described below is to provide an orderly and timely resolution of discrimination and harassment complaints, and to provide full opportunity for internal consideration of problems and potential remedies. Complaints must be submitted within one year of the date when the complainant knew of the alleged discrimination.

General Information:

1. The following procedure is to be used by an applicant, employee, student, or potential student who alleges

discriminatory actions by a college employee or student against the complainant in violation of the College's Non-discrimination Policy or Sexual Harassment Policy.

2. Confidentiality: The confidentiality of the parties involved in a complaint will be observed, provided it does not interfere with the institution's ability to investigate or take corrective action.
3. Retaliation: The institution is committed to protecting any person who, in good faith, reports sexual harassment or discrimination. Retaliation is a serious violation and shall be investigated independently of whether a charge or complaint of harassment or discrimination is substantiated.
4. Retention of Information: All records of complaints and the disposition of the complaints will be retained permanently by the Affirmative Action (AA) Office.

Procedural Steps

Step 1. Informal Resolution: If complaints are not resolved informally between the parties or through informal discussions between the Affirmative Action Officer and the person who has allegedly discriminated/harassed, the complainant is encouraged to contact the Affirmative Action Officer. The Affirmative Action Officer shall pursue an informal resolution. One of the goals of the informal resolution process is to encourage and foster settlements rather than contested hearings. The President will be notified of the complaint and its outcome. If an acceptable resolution is reached, the complaint will be considered resolved and the complainant may be asked to sign a written agreement as to the resolution.

Step 2. Formal Complaint: If the complainant is not satisfied with the results from the informal resolution (Step 1), a written complaint using the Clatsop Community College Complaint Form, will be filed with the Affirmative Action Officer within 15 working days of the conclusion of the informal resolution step. The written complaint shall contain specific details covering the incident and the desired remedy. Forms are available in the Offices of the Affirmative Action Officer, Student Services, Human Resources, Learning Resource Center, MERTS, and South County Center.

Copies of the complaint will be forwarded to the College President.

Upon receipt of the complaint, the AA Officer will:

1. Advise the complainant and alleged offender of the complaint and the procedure for resolving complaints.
2. Investigate the complaint including interviews of the parties involved and witnesses within 20 working days of receipt of the complaint.
3. Attempt to resolve the complaint between the parties within 20 working days of receipt of the complaint.
4. If the issue is resolved successfully, the complaint will be considered resolved and the complainant may be asked to sign a written agreement as to the resolution. The AA Officer will notify the College President and the alleged offender that the complaint has been resolved.

Information

5. If the issue is not resolved to the satisfaction of the complainant, the complainant may request, in writing, a hearing before the College President.

Step 3. Hearing: The College President shall conduct an investigation and hearing. The AA Officer will prepare a report of the investigation and activities related to the complaint, a copy of the written complaint, any written documentation collected during the Step 2 investigation, and submit this to the College President.

The AA Officer will schedule the hearing for the College President, permitting the complainant and alleged offender/s, or their representatives to present evidence or interpretation of incidents related to the alleged discrimination or sexual harassment. The hearing should be conducted within 10 working days of the request for the hearing.

The hearing will not be open to the public.

The President shall announce a decision within 10 working days after the investigation and hearing. If additional time is needed to conduct a more extensive investigation, additional time may be allowed. The President shall notify the alleged offender, the complainant, the appropriate supervisors, the Human Resource office, and the AA Officer in writing of the action or decision.

In the event that disciplinary action is warranted, the appropriate administrator or supervisor will follow normal personnel or student discipline procedures, under the direction of the AA Officer.

Step 4: Appeals: Complainants who are not satisfied with the President's decision may appeal the decision in writing to the Clatsop Community College Board of Directors within 15 working days of notification of the President's decision. Written requests for an appeal should be addressed to the Chairperson of the Clatsop Community College Board of Directors and state the basis of the complaint and the reasons or policies which justify further review of the decision. The respondent can request that the appeal hearing by the Board be in open session. The Board shall act on the appeal within a reasonable period of time, but no longer than 30 working days. The decision of the Board shall be final.

Complaints regarding personnel actions or student disciplinary action that result from the College President's decision must be pursued through College discipline procedures.

Step 5: Follow-up: It is essential to verify that whatever action was taken did stop the discrimination or harassment and will prevent it from recurring in the future. The AA Officer will contact the complainant by phone or mail within 60 calendar days to determine the effectiveness of the process and remedy.

Student Consumer Information

Federal regulations (part 668.41 – Student Assistance General Provisions) require that certain information be provided to all enrolled students on an annual basis, and to all prospective students. Following is a list and brief description of the required disclosures and information on where you can obtain a detailed copy of each disclosure.

Institutional Information: The college is required to provide you with general information regarding Clatsop Community College, including: the cost of attendance, academic programs, accrediting agencies, special services for students, appropriate campus contacts for all information, a description of the institution's refund policies, return of funds to Title IV programs (financial assistance), and the institution's procedures for officially withdrawing. The primary sources for this information are the catalog, Student Handbook, and the Clatsop Community College website at www.clatsopcc.edu.

Available Financial Assistance: Information on available federal, state, and institutional financial need-based and non-need based assistance programs can be found by reviewing the Clatsop Community College Financial Aid website. The Financial Aid website includes descriptions of student assistance programs, application procedures and eligibility criteria, and the rights and responsibilities of students receiving financial assistance. The Financial Aid website may be viewed at www.clatsopcc.edu. Scholarship information and applications may also be accessed on-line at www.clatsopcc.edu. Several student computers are available in the Student Services Welcome Center for use in accessing this information. You may also pick up scholarship information at the Financial Aid Office.

Graduation Rates: This report provides information on the graduation rates of a cohort of full-time degree or certificate seeking students who graduated within 150% of normal time for graduation. This information is available in the Student Right-to-Know Report which can be picked up at the Student Services Welcome Center, or you may request a copy by phone at 503-338-2368 or view it on the college website at: www.clatsopcc.edu.

Family Education Rights and Privacy Act (FERPA): also known as the Buckley Amendment, gives students the right to:

- Access their educational records
- Consent to release a record to a third party
- Challenge information in their records
- Be notified of their privacy rights.

Information on FERPA is available in the student hand-out entitled "Your Student Records." You may request a copy by phone at 503-338-2326 or view it on the college website at www.clatsopcc.edu.

Campus Safety Report: The Campus Safety Report complies with the requirements of the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (Clery Act). It explains how the College reports and handles crime and emergency situations on or near College property and provides statistics on reportable offenses. The full report is available at <http://www.clatsopcc.edu/about-ccc/student-consumer-information/safety-report>. We will provide a paper copy of the Campus Safety Report upon request.

This disclosure provides statistics on campus safety and crime for the three most recent calendar years, policies and procedures for reporting crimes, information regarding campus security provisions, and crime prevention programs on campus. The annual Campus Safety Report can be picked up at the Student Services Welcome Center, or you may request one by phone at 503-338-2326 or email registrar@clatsopcc.edu.

Title IX Policy: In compliance with applicable laws and regulations (e.g., Americans with Disabilities Act (ADA), Title I,

Title VI, Title VII, Title IX of the Civil Rights Act or Section 504 of the Rehabilitation Act of 1973, the Age Discrimination in Employment Act), Clatsop Community College is an equal opportunity institution providing education and employment opportunities without regard to race, color, national or ethnic origin, ancestry, age, religion or religious creed, disability or handicap, sex, gender identity or expression, sexual orientation, marital status, military or veteran status, or any other characteristic protected under applicable federal, state or local law. In keeping with requirements of federal and state law, the College attempts to remove any vestige of discrimination in employment, assignment and promotion of personnel, in educational opportunities and services offered students, in courses and programs, in student discipline, in location and use of facilities, in educational offerings and material, and in accommodating the public at public meetings.

In addition, Title IX of the Education Amendments specifically prohibits sex discrimination in federally supported programs. In order to comply with Title IX, this policy prohibits any form of sexual misconduct including dating violence; domestic violence; stalking; sexual harassment, which is unwelcome conduct of a sexual nature, including unwelcome sexual advances, requests for sexual favors, and other verbal, nonverbal, or physical conduct of a sexual nature; and sexual violence; which is physical sexual acts perpetrated against a person's will or where a person is incapable of giving consent (e.g., due to the student's age or use of drugs or alcohol or an intellectual or other disability that prevents the student from having the capacity to give consent). Sexual violence includes rape, sexual assault, sexual battery, sexual abuse, and sexual coercion.

The Title IX Coordinator is responsible for defining the above terms, and implementing training, reporting procedures, and investigation procedures in accordance with current law. Local, state, and federal laws will be enforced on all campuses.

The aforementioned Federal laws prohibit covered entities from retaliating against a person who files a charge of discrimination, participates in a discrimination proceeding, or otherwise opposes an unlawful employment practice.

The College will establish a procedure for filing complaints of discrimination and for resolving such complaints in a timely manner. Such complaints will be filed with the Affirmative Action Officer/ Title IX Coordinator

Report Violations to:

Leslie Hall, Title IX Coordinator
Towler Hall Rm 110 - Main Campus
lhall@clatsopcc.edu
503-338-2450

Disclosure Statement

OAR 581-41-460 authorizes Community College to ask you to provide your social security number. The number will be used by the college for reporting, research, and record keeping. Your number will also be provided by the college to the State Department of Community Colleges. The state or the college may provide information about students and programs to meet state and federal reporting requirements. It also helps colleges plan, research, and develop programs. This information helps

the colleges to support the progress of students and their success in the workplace and other education programs.

OCCURS or the college may provide your 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 you by the college; The American College Testing Service, if you take the ACCUPLACER Placement test, for educational research purposes; and area secondary schools for assessment of outcomes for high school graduates.

State and federal law protects the privacy of your records. Your number will be used only for the purposes listed above.

College Policy On Drug & Alcohol Use

The Student Code of Conduct for Clatsop Community College prohibits the use, possession, or distribution of alcoholic beverages on College property, except as expressly permitted by the law and college regulations. It is a violation of the Code of Conduct to be under the influence of alcoholic beverages while on College property. The College also prohibits the possession and consumption of alcoholic beverages by minors at any College or College affiliated functions and the serving of alcoholic beverages at College and College affiliated functions where a significant number of those in attendance are minors.

In addition, the Student Code of Conduct prohibits the use, possession, or distribution of any controlled substances, as defined by ORS 475 [as now law or hereinafter amended] except when use or possession is lawfully prescribed. It is also a violation of the Code of Conduct to be under the influence of controlled substances while on College property.

Sanctions which may be imposed for violations of College policy include: Expulsion (removal of privilege to attend CCC); suspension for a definite period of time; disciplinary probation with specific terms for continued enrollment; and suspension or expulsion for violation of those terms; or a written reprimand. Parents of students under age 18 will be notified of any violations of the College's alcohol or drug policy. As prohibited by Federal law, marijuana use or possession on campus is prohibited on all college campuses.

Assistance With Substance Abuse

For substance abuse problems or addiction, a professional counselor in Student Services can advise you about actions to take for support and further help from community self-help groups, treatment programs and private counselors. This service is provided to students free of charge. You may contact the Student Services Welcome Center or call Counseling Services at 503-338-2409 for an appointment.

ASSOCIATE OF ARTS OREGON TRANSFER (AAOT)

Role Descriptions: The Oregon Transfer Program is designed for students who will continue with upper division studies in Oregon colleges and universities, and who will function as effective citizens in a democratic society and as members of a local and global community.

Intended Learning Outcomes: Learning experiences in this program are designed to assist the student in realizing the following outcomes:

1. Engage in civic opportunities with a sense of personal empowerment.
2. Use research skills to access information from multiple sources; use critical thinking skills to evaluate and synthesize information in the form of conclusions, ideas, and opinions.
3. Express ideas clearly and creatively in diverse ways through art, speech, writing, technologies, and mathematics.
4. Draw on knowledge of the arts and sciences to compete effectively in upper division coursework.
5. Use effective life skills to improve and maintain mental and physical wellbeing.
6. Apply learning skills to advance in academic, career, and personal development.
7. Enter and compete effectively in the work force.
8. Recognize, understand, and respond to the wonders and challenges of the natural environment through participation in environmental literacy efforts.
9. Recognize one's role in world community issues with a respect for diverse cultures and differing world views while embracing a sense of pride in one's own regional values and historical heritage.

You have the opportunity to broaden your creative and critical knowledge through an Arts and Sciences program. You might enroll in the lower division program to explore several fields of study to clarify your educational and professional goals. Or you might seek a broad general education as a foundation in preparation for specialization during your junior and senior years at a four-year institution.

Many students attend Clatsop Community College for one or more terms and then transfer to a four-year college. The Associate of Arts, Oregon Transfer Degree allows you to complete lower division requirements at Clatsop Community College. If you complete this degree and are accepted at Oregon public universities, you are admitted as having completed all the lower division General Education requirements for a baccalaureate degree; however, some departments within State System institutions may require additional courses for admittance with junior standing.

You should confer with your advisor at Clatsop and with the institution to which you expect to transfer concerning the requirements of their baccalaureate major. Additional classes which are not on following lists may transfer as electives. The receiving school makes the decision concerning which classes it will accept for credit, which apply to its major and degree requirements, which classes transfer as electives, and which classes it will not accept. In any case, it is your responsibility to confer with the school to which you intend to transfer.

Foundational Requirements

- **Writing:** Students taking writing classes of three credits each must take WR 121, 122, and either WR 123 or 227. Students taking writing classes of 4 credits each must take WR 121 and either WR 122 or 227. A student must have eight credits of Writing. *NOTE: WR 123 is no longer offered but will be accepted to meet writing requirements.*
- Information Literacy will be included in the Writing Requirement.
- **Oral Communication:** One course in the fundamentals of speech or communication designated by the college as meeting the statewide criteria for speech communication.
- **Mathematics:** One course in college-level mathematics designated by the college as meeting the statewide criteria for mathematics.
- **Health/Wellness/Fitness:** One or more courses totaling at least three credits.

Discipline Requirements

Arts & Letters: Students must complete three courses chosen from two or more disciplines. The second year of a foreign language, but not the first year, may be included among courses that count toward the Arts and Letters requirement.

ARCH 215History Pacific NW Architecture 3
 ARCH 216Northwest Architects..... 3
 ART 115,116,117 ...Basic Design I, II, III 3 ea
 ART 204,205,206...History of Western Art I, II, III 3 ea
 ASL 201Amer Sign Language-Conv Skills 3
 ENG 104Intro to Literature-Fiction 3
 ENG 106Intro to Literature-Poetry 3
 ♦ENG 107World Lit.-The Ancient World 3
 ♦ENG 108World Lit.-Medieval/Renaissance..... 3

♦ENG 109World Lit.-Africa/Asia/Latin Am..... 3
 ENG 110Introduction to Film Studies 3
 ♦ENG 180Gothic Literature 3
 ♦ENG 204English Literature-Medieval 3
 ♦ENG 205English Literature-Renaissance 3
 ♦ENG 206English Literature-Victorian/Modern.... 3
 ♦ENG 220Multicultural American Literature 3

continued on the next page

Arts & Letters, continued

◆ENG 221Intro to Children’s Literature 3	◆SP 115.....Intro. to Intercultural Communication 3
◆ENG 263 Autism in Literature 3	SP 130 Business & Professional Speaking 3
◆FR 201,202,203..... Second Year French 4 ea	SP 218 Interpersonal Communication 3
◆HUM 101,102,103 Introduction to Humanities 3 ea	◆SP 219 Small Group Discussion 3
MUS 105 Music Appreciation 3	◆SPAN 201,202,203 Second Year Spanish 4 ea
PHL 101 Philosophical Problems 3	WR 227 Technical Writing 4
PHL 102 Ethics 3	WR 240 Creative Writing-Nonfiction..... 3
PHL 103 Critical Reasoning 3	WR 242 Creative Writing-Poetry 3
R 201,202,203 Great Religions of the World..... 3 ea	WR 249 Writing Children's Books 3
◆SP 111 Fundamentals of Public Speaking 3	WR 270 Literary Publishing..... 4
◆SP 112..... Persuasive Speech 3	

Social Science: Students must complete four courses chosen from two or more disciplines.

ANT 101Intro to Biological Anthropology3	PS 205International Politics3
◆ANT 102.....Intro to Archaeology & Prehistory3	PSY 101Psychology of Human Relations.....3
◆ANT 103.....Intro to Cultural Anthropology3	PSY 201,202,203 .General Psychology3 ea
EC 201,202 Principles of Economics4 ea	PSY 215Intro. to Developmental Psychology3
HFS 226Growing Years3	◆SOC 204General Sociology: Introduction3
◆HST 101,102,103 ..History of Western Civilization3 ea	◆SOC 205General Sociology: Social Issues.....3
◆HST 104,105,106 .. World History I, II, III4 ea	◆SOC 225General Sociology: Global Issues.....3
◆HST 201,202,203 ..History of the United States3 ea	◆WS 201Intro to Women’s Studies3
HST 218Native American History3	◆WS 210Cultural Perspective of Women of Color 3
HST 245Lewis/Clark Course of Discovery3	◆WS 221Women, Difference & Discrimination3
HST 277History of the Oregon Trail3	◆WS 230.....Women and Social Action.....3
◆PHL 208Political Philosophy3	
PS 201, 202American Government3 ea	
PS 203State and Local Government.....3	

Science/Mathematics: Students must complete four courses from at least two disciplines, including at least three laboratory courses in biological and/or physical science.

*BI 101,102,103..... General Biology 4 ea	MTH 105..... Math in Society4
*BI 143..... Marine Biology4	MTH 111 College Algebra.....4
*BI 211,212,213..... Principles of Biology I, II, III4 ea	MTH 112 Elementary Functions (Trigonometry) .4
BI 222..... Human Genetics3	MTH 116 Pre-Calculus4
*BI 231,232,233..... Human Anat. and Physiology I, II, III .4 ea	MTH 211,212,213.. Fundamentals of Elementary Mathematics I,II,III4 ea
*BI 234..... Introductory Microbiology4	MTH 243,244..... Intro. to Probability and Statistics4 ea
*BOT 101 Botany4	MTH 251 Calculus I5
*CH 104,105 Introductory Chemistry I, II4 ea	MTH 252,253..... Calculus II,III4 ea
*CH 106 Introductory Chemistry-Biochemistry .4	*PH 201,202,203 ... General Physics5 ea
*CH 221,222,223 ... General Chemistry5 ea	*PH 211,212,213.... General Physics with Calculus5 ea
*ES 160 Techniques in Environmental Information Analysis.....4	
*ES 202 Applied Environmental Studies: Prep for Problem Solving.....4	
*GS 104 Physical Science-Physics4	
*GS 105 Physical Science-Chemistry.....4	
*GS 106 Physical Science-Geology.....4	
*GS 108 Physical Science-Oceanography4	
*GS 109 Physical Science-Meteorology.....4	
*GS 112..... Chem and Cell Biology5	
GS 161 Field Biology of Oregon3	

*Courses that meet the lab science requirements of the AAOT

Cultural Literacy: Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. (Courses meeting this criteria in each discipline area above have a “◆” notation.)

Electives

Students may complete any college-level course that would bring total credits to 90 quarter hours including up to 12 credits of college designated Career and Technical Education courses numbered 100 or higher.

Institutional Requirements

Students must complete a total of 90 quarter credits in order to be awarded the AAOT.

All courses should be aligned with the student's intended program of study and the degree requirement of the baccalaureate institution to which the student plans to transfer. Students are encouraged to work with an advisor in the selection of courses.

All Foundational Requirements and Discipline Studies courses must be a minimum of 3 credits, except for Health/Wellness/Fitness courses, which may be any number of credits.

All Elective courses may be any number of credits. All courses must be passed with a grade of "C" or better. Students must have a minimum cumulative GPA of 2.0 at the time the AAOT is awarded.

Foreign Language

Students who have graduated from high school or completed a high school equivalency program in 1997 or after, must meet one of the following requirements for admission to an Oregon University System institution; either,

- 1) two years of the same high school level language, or
- 2) two terms of a college level language with a grade of "C" or better (may be first year language; ASL [American Sign Language] classes also qualify).

Art - Guided Pathway

The following courses are recommended for students intending to transfer into an Art major at a senior institution:

YEAR ONE	Core Courses	Core Courses	Suggested Discipline Area Courses	AAOT General Requirement	AAOT General Requirement	Electives	Cr.
Fall	Basic Design ART 115 3 Cr.	Introduction to Drawing I ART 131 3 Cr.	History of Western Civilization I HST 101 3 Cr.	PE Activity PE 185 1 Cr.	English Composition WR 121 4 Cr.		14
Winter	Basic Design ART 116 3 Cr.	Introduction to Drawing II ART 132 3 Cr.	History of Western Civilization II HST 102 3 Cr.	PE Activity PE 185 1 Cr.	Advanced Composition WR 122 4 Cr.	Studio Art Elective 3 Cr.	17
Spring	Basic Design ART 117 3 Cr.	Introduction to Drawing III ART 133 3 Cr.	History of Western Civilization III HST 103 3 Cr.	PE Activity PE 185 1 Cr.	Math in Society MTH 105, 4 Cr. or College Algebra MTH 111, 4 Cr.		14

YEAR TWO	Core Courses	Core Courses	Suggested Discipline Area Courses	Suggested Discipline Area Courses	AAOT General Requirement	Electives	Cr.
Fall	History of Western Art I ART 204 3 Cr.	Drawing: Intermediate I ART 231, 3 Cr. or Intro to Ceramics I ART 250, 3 Cr.	Psychology of Human Relations PSY 101 3 Cr.	Lab Science 4 Cr.		Studio Art Elective 3 Cr.	16
Winter	History of Western Art II ART 205 3 Cr.	Drawing: Intermediate II ART 232, 3 Cr. or Intro to Ceramics II ART 251, 3 Cr.		Lab Science 4 Cr.	Fundamentals of Public Speaking SP 111 3 Cr.		13
Spring	History of Western Art III ART 206 3 Cr.	Drawing: Intermediate III ART 233, 3 Cr. or Intro to Ceramics III ART 252, 3 Cr.	Multicultural American Literature ◆ ENG 220 3 Cr.	Lab Science 4 Cr.		Studio Art Elective 3 Cr.	16

◆ Satisfies the Cultural Literacy Requirement.

Chemistry - Guided Pathway

The following courses are recommended for students intending to transfer into a Chemistry major at a senior institution (always consult with the specific transfer institution when planning your schedule):

YEAR ONE	Core Courses	Core Courses	AAOT Discipline Area Requirement	AAOT General Requirement	Electives	Cr.
Fall	College Algebra MTH 111 4 Cr.	General Chemistry I CH 221 5 Cr.	Social Science (from list on pg. 25) 3 Cr.	English Composition WR 121 4 Cr.		16
Winter	Pre-Calculus [‡] MTH 116 4 Cr.	General Chemistry II CH 222 5 Cr.	Social Science (from list on pg. 25) 3 Cr.	English Composition WR 122, 4 Cr. OR Technical Report Writing WR 227, 4 Cr.		16
Spring	Elementary Functions, Trigonometry MTH 112 4 Cr.	General Chemistry III CH 223 5 Cr.	Social Science (from list on pg. 25) 3 Cr.	Fundamentals Public Speaking SP 111 3 Cr.		16

YEAR TWO	Core Courses	Core Courses	AAOT Discipline Area Requirement	AAOT Discipline Area Requirement	AAOT General Requirement	Electives	Cr.
Fall	General Physics With Calculus PH 211 5 Cr.	Calculus I MTH 251, 5 Cr.	Arts and Letters (from list on pg. 24-25), 3 Cr.	Social Science (from list on pg. 25), 3 Cr.	PE Activity PE 185 1 Cr.		17
Winter	General Physics With Calculus PH 212 5 Cr.	Calculus II, MTH 252 4 Cr.	Arts and Letters (from list on pg. 24-25), 3 Cr.		PE Activity PE 185 1 Cr.		13
Spring	General Physics With Calculus PH 213 5 Cr.	Calculus III, MTH 253 4 Cr.	Arts and Letters (from list on pg. 24-25), 3 Cr.		PE Activity PE 185 1 Cr.		13

Choose one AAOT Discipline Area Requirement that satisfies the Cultural Literacy Requirement (from list on pg. 24-25)

[‡] Optional

Biological Science - Guided Pathway

The following courses are recommended for students intending to transfer into a Biology major at a senior institution (always consult with the specific transfer institution when planning your schedule):

YEAR ONE	Core Courses	Core Courses	AAOT Discipline Area Requirement	AAOT General Requirement	Cr.
Fall	College Algebra MTH 111 4 Cr.	General Chemistry I CH 221 5 Cr	Social Science (from list on page 25) 3 Cr.	English Composition WR 121 4 Cr.	16
Winter	Pre-Calculus ‡ MTH 116 4 Cr.	General Chemistry II CH 222 5 Cr	Social Science (from list on page 25) 3 Cr.	English Composition WR 122, 4 Cr. or Technical Report Writing, WR 227, 4 Cr.	16
Spring	Elementary Functions, Trigonometry MTH 112 4 Cr.	General Chemistry III CH 223 5 Cr	Social Science (from list on page 25) 3 Cr.	Fundamentals of Public Speaking SP 111 3 Cr.	16

YEAR TWO	Core Courses	Core Courses	AAOT Discipline Area Requirement	AAOT Discipline Area Requirement	AAOT General Requirement	Cr.
Fall	Principles of Biology BI 211 5 Cr.	Calculus I MTH 251 5 Cr.	Arts and Letters (from list on pg. 24-25), 3 Cr.	Social Science (from list on pg. 25) 3 Cr.	PE Activity PE 185 1 Cr.	17*
Winter	Principles of Biology BI 212 5 Cr.	Calculus II, MTH 252 4 Cr.	Arts and Letters (from list on pg. 24-25), 3 Cr.		PE Activity PE 185 1 Cr.	13
Spring	Principles of Biology BI 213 5 Cr.	Calculus III, Math 253 4 Cr.	Arts and Letters (from list on pg. 24-25), 3 Cr.		PE Activity PE 185 1 Cr.	13

* In addition, General Physics, PH 201, 5 Cr. or General Physics with Calculus, PH 211, 5 Cr. recommended.

‡ Optional

Choose one AAOT Discipline Area Requirement that satisfies the Cultural Literacy Requirement (from list on pg. 24-25)

Business - Guided Pathway

The following courses are recommended for students intending to transfer into a Business major at a senior institution (always consult with the specific transfer institution when planning your schedule):

YEAR ONE	Core Courses	Core Courses	Suggested Discipline Area Courses	AAOT General Requirement/ Discipline Area	AAOT General Requirement	Cr.
Fall	Intro to Business BA 101 4 Cr.	Human Relations In Business BA 285 3 Cr.	Ethics PHL 102 3 Cr.	English Composition WR 121 4 Cr.	PE Activity PE 185 1 Cr.	15
Winter		Principles of Marketing BA 223 3 Cr.	Lab Science (from list on pg. 24) 4 Cr.	Principles of Economics EC 202 4 Cr.	Intro: Probability & Statistics MTH 243, 4 Cr.	15
Spring	Spreadsheets CSL 107 3 Cr.	Intro to Business Law BA 226 4 Cr.	Principles of Economics EC 201 4 Cr.	Oral Communication Fundamentals of Public Speaking SP 111 3 Cr.	PE Activity PE 185 1 Cr.	15

YEAR ONE	Core Courses	Core Courses	Suggested Discipline Area Courses	AAOT General Requirement/ Discipline Area	AAOT General Requirement	Cr.
Fall	Principles of Accounting BA 211 4 Cr.	Management Fundamentals BA 206 3 Cr.	American Government PS 201, 3 Cr. or (from list on pg. 24, 3 Cr.)	Lab Science (from list on pg. 24, 4 Cr.)	PE Activity PE 185 1 Cr.	15
Winter	Principles of Accounting II BA 212 4 Cr.	Human Resource Management BA 224 3 Cr.	Lab Science (from list on pg. 24) 4 Cr.	College Algebra Math MTH 111 4 Cr.		15
Spring	Principles of Accounting III BA 213 4 Cr.	State & Local Government PS 203, 3 Cr. or Social Science (from list on pg. 24, 3 Cr.)	World Lit: Africa/ Asia/Latin AM* ENG 109, 3 Cr.	Arts & Letters (from list on pg. 23-24, 3 Cr.)	Technical Report Writing WR 227 4 Cr.	17

* Satisfies the Cultural Literacy Requirement

Economics - Guided Pathway

The following courses are recommended for students intending to transfer into a Economics major at a senior institution (always consult with the specific transfer institution when planning your schedule):

YEAR ONE	Core Courses	Core Courses	Suggested Discipline Area Courses	AAOT General Requirement	AAOT General Requirement	Electives	Cr.
Fall	Principles of Economics EC 201 4 Cr.	Principles of Accounting I BA211 4 Cr.		College Algebra Math 111 4 Cr.	English Composition WR 121 4 Cr.		16
Winter	Principles of Economics EC 202 4 Cr.	Principles of Accounting II BA212 4 Cr.		Pre-Calculus‡ Math 116 4 Cr.	Technical Report Writing, WR 227, 4 Cr. (or English Composition WR 122, 4 Cr.)		16
Spring		Principles of Accounting III BA211 4 Cr.	Arts and Letters (from list on pg. 24-25) 3 Cr.	Elementary Functions, Trigonometry Math 112 4 Cr.	Fundamentals Public Speaking SP111 3 Cr.		14

YEAR TWO	Core Courses	Core Courses	Suggested Discipline Area Courses	Suggested Discipline Area Courses	AAOT General Requirement	Electives	Cr.
Fall				Arts and Letters (from list on pg. 24-25) 3 Cr.	PE Activity PE 185 1 Cr.	Transfer Electives 2+ Cr.	14
Winter		Intro: Probability & Statistics MTH243 4 Cr.			PE Activity PE 185 1 Cr.		15
Spring		Intro: Probability & Statistics MTH244 4 Cr.		Arts and Letters (from list on pg. 24-25) 3 Cr.	PE Activity PE 185 1 Cr.		15

◆ Satisfies the Cultural Literacy Requirement,
‡Optional

English - Guided Pathway

The following courses are recommended for students intending to transfer into an English major at a senior institution:

YEAR ONE	Core Courses	Core Courses	Suggested Discipline Area Courses	Suggested Discipline Area Courses	AAOT General Requirement	Electives	Cr.
Fall	World Literature ENG 107 3 Cr.	Introduction to Fiction ENG 104 3 Cr.	History of Western Civilization I HST 101 3 Cr.		English Composition WR 121 4 Cr.		13
Winter	World Literature ENG 108 3 Cr.	Introduction to Poetry ENG 106 3 Cr.	History of Western Civilization II HST 102 3 Cr.	Science/Math 3+ Cr.	Advanced Composition WR 122 4 Cr.		16
Spring	World Literature ENG 109 3 Cr.	Introduction to Film Studies ENG 110 3 Cr.	History of Western Civilization III HST 103 3 Cr.		Math in Society MTH 105, 4 Cr.	Transfer Electives 3+ Cr.	16

YEAR TWO	Core Courses	Core Courses	Suggested Discipline Area Courses	Suggested Discipline Area Courses	AAOT General Requirement	Electives	Cr.
Fall	Pacific NW Literature ENG 214 3 Cr.	English Literature: Medieval ENG 204 3 Cr.	Intro: Cultural Anthropology ANT 103 3 Cr.	Lab Science 4 Cr.	Fundamentals of Public Speaking SP 111 3 Cr.		16
Winter	Literary Publications WR 270 4 Cr.	English Literature: Renaissance ENG 205 3 Cr.		Lab Science 4 Cr.	Health & Fitness For Life HPE 295 3 Cr.		14
Spring	Multicultural American Literature ◆ ENG 220 3 Cr.	English Literature: Victorian/Modern ENG 206 3 Cr.		Lab Science 4 Cr.		Transfer Electives 6+ Cr.	15

◆ Satisfies the Cultural Literacy Requirement.

History - Guided Pathway

The following courses are recommended for students intending to transfer into an History major at a senior institution:

YEAR ONE	Core Courses	Core Courses	Suggested Discipline Area Courses	Suggested Discipline Area Courses	AAOT General Requirement	Electives	Cr.
Fall	History of Western Civilization I ◆ HST 101 3 Cr.	World History I HST 104 4 Cr.	World Literature: The Ancient World ◆ ENG 107 3 Cr.		English Composition WR 121 4 Cr.		14
Winter	History of Western Civilization II ◆ HST 102 3 Cr.	World History II HST 105 4 Cr.	World Literature: Medieval/ Renaissance ◆ ENG 108 3 Cr.		Advanced Composition WR 122 4 Cr.		14
Spring	History of Western Civilization III ◆ HST 103 3 Cr.	World History III HST 106 4 Cr.	World Literature: Africa/ Asia/Latin America ◆ ENG 109 3 Cr.		Health and Fitness For Life HPE 295 3 Cr.	Transfer Electives 4 Cr.	17

YEAR TWO	Core Courses	Core Courses	Suggested Discipline Area Courses	Suggested Discipline Area Courses	AAOT General Requirement	Electives	Cr.
Fall	History of the United States I HST 201 3 Cr.	Lewis & Clark Course of Discovery HST 245 3 Cr.		Lab Science 4 Cr.	Math in Society MTH 105 4 Cr.		14
Winter	History of the United States II HST 202 3 Cr.	History of the Oregon Trail HST 277 3 Cr.	Intro. Probability & Statistics MTH 243, 4 Cr.	Lab Science 4 Cr.			14
Spring	History of the United States III HST 203 3 Cr.	Native American History HST 218 3 Cr.		Lab Science 4 Cr.	Fundamentals of Public Speaking SP 111 3 Cr.	Transfer Electives 4 Cr.	17

Mathematics - Guided Pathway

The following courses are recommended for students intending to transfer into an Mathematics major at a senior institution:

YEAR ONE	Core Courses	Core Courses	Suggested Discipline Area Courses	Suggested Discipline Area Courses	AAOT General Requirement	Electives	Cr.
Fall	College Algebra MTH 111 4 Cr.		Arts & Letters (from list on pages 24-25) 3 Cr.	Social Science (from list on page 25) 3 Cr.	English Composition WR 121 4 Cr.		14
Winter	Pre-Calculus MTH 116 4 Cr.	Intro. to Probability & Statistics MTH 243, 4 Cr.	Arts & Letters (from list on pages 24-25) 3 Cr.		Advanced Comp. WR 122, 4 Cr. or Technical Writing WR 227, 4 Cr.		15
Spring	Elementary Functions: Trigonometry MTH 112 4 Cr.	Intro. to Probability & Statistics MTH 244 4 Cr.	Arts & Letters (from list on pages 24-25) 3 Cr.		Fundamentals of Public Speaking SP 111 3 Cr.		14

YEAR TWO	Core Courses	Suggested Discipline Area Courses	Suggested Discipline Area Courses	AAOT General Requirement	Electives	Cr.
Fall	Calculus I MTH 251 5 Cr.	Social Science (from list on page 25) 3 Cr.	General Physics with Calculus PH 211 5 Cr.	Health and Fitness For Life HPE 295 3 Cr.		16
Winter	Calculus II MTH 252 4 Cr.	Social Science (from list on page 25) 3 Cr.	General Physics with Calculus PH 212 5 Cr.		Transfer Electives 3 Cr.	15
Spring	Calculus III MTH 253 4 Cr.	Social Science (from list on page 25) 3 Cr.	General Physics with Calculus PH 213 5 Cr.		Transfer Electives 4 Cr.	16

Chose one AAOT Discipline Area Requirement that satisfies the Cultural Literacy Requirement, from list on pages 24-25.

Physics - Guided Pathway

The following courses are recommended for students intending to transfer into a Physics major at a senior institution (always consult with the specific transfer institution when planning your schedule):

YEAR ONE	Core Courses	Suggested Discipline Area Courses	Suggested Discipline Area Courses	AAOT General Requirement	AAOT General Requirement	Cr.
Fall	College Algebra MTH 111 4 Cr.	Arts & Letters (from list on pages 24-25) 3 Cr.	Social Science (from list on page 25) 3 Cr.	English Composition WR 121 4 Cr.	PE Activity PE 185 1 Cr.	15
Winter	Pre-Calculus [‡] MTH 116 4 Cr.	Arts & Letters (from list on pages 24-25) 3 Cr.	Social Science (from list on page 25) 3 Cr.	Technical Report Writing WR 227 4 Cr.	PE Activity PE 185 1 Cr.	15
Spring	Elementary Functions: Trigonometry MTH 112 4 Cr.	Arts & Letters (from list on pages 24-25) 3 Cr.	Social Science (from list on page 25) 3 Cr.	Fundamentals of Public Speaking SP 111 3 Cr.	PE Activity PE 185 1 Cr.	15

YEAR TWO	Core Courses	Core Courses	Suggested Discipline Area Courses	Suggested Discipline Area Courses	Recommended Elective	Electives	Cr.
Fall	General Physics with Calculus PH 211 5 Cr.	Calculus I MTH 251 5 Cr.	Principles of Economics EC 201 or EC 202 4 Cr.			Transfer Electives 1+ Cr.	15
Winter	General Physics with Calculus PH 212 5 Cr.	Calculus II MTH 252 4 Cr.			Engineering Orientation EGR 101 3 Cr.	Transfer Electives 3+ Cr.	15
Spring	General Physics with Calculus PH 213 5 Cr.	Calculus III MTH 253 4 Cr.				Transfer Electives 6+ Cr.	15

◆ Satisfies the Cultural Literacy Requirement,

‡ Optional

24 to 36 Credits of Core Courses

Pre-Medicine, Pre-Dental, Pre-Physical Therapy, Pre-Veterinary - Guided Pathway

The following courses are recommended for students intending to transfer into a Pre-Medicine, Pre-Dental, Pre-Physical Therapy, or Pre-Veterinary major at a senior institution (always consult with the specific transfer institution when planning your schedule):

YEAR ONE	Core Courses	Core Courses	AAOT Discipline Area Requirement	AAOT General Requirement	Cr.
Fall	College Algebra Math 111, 4 Cr. or Calculus I Math 251, 5 Cr.	General Chemistry I CH 221 5 Cr	Social Science (from list on pg. 25) 3 Cr.	English Composition WR 121 4 Cr.	16
Winter	Pre-Calculus [‡] Math 116, 4 Cr. or Calculus II Math 252, 4 Cr.	General Chemistry II CH 222 5 Cr.	Social Science (from list on pg. 25) 3 Cr.	English Composition WR 122, 4 Cr. or Technical Report Writing, WR 227, 4 Cr.	16
Spring	Elementary Functions, Trigonometry Math 112, 4 Cr. or Calculus III Math 253, 4 Cr.	General Chemistry III CH 223 5 Cr.	Social Science (from list on pg. 25) 3 Cr.	Fundamentals Public Speaking SP 111 3 Cr.	16

YEAR TWO	Core Courses	AAOT Discipline Area Requirement	AAOT Discipline Area Requirement	AAOT General Requirement	Electives	Cr.
Fall	Principles of Biology BI 211, 5 Cr. or General Physics PH 201, 5 Cr*	Arts & Letters (from list on pages 24-25) 3 Cr.	Social Science (from list on page 25) 3 Cr.	PE Activity PE 185 1 Cr.	Transfer Electives 2+ Cr.	14
Winter	Principles of Biology BI 212, 5 Cr. or General Physics PH 202, 5 Cr*	Arts & Letters (from list on pages 24-25) 3 Cr.		PE Activity PE 185 1 Cr.	Transfer Electives 5+ Cr.	14
Spring	Principles of Biology BI 213, 5 Cr. or General Physics PH 203, 5 Cr*	Arts & Letters (from list on pages 24-25) 3 Cr.		PE Activity PE 185 1 Cr.	Transfer Electives 5+ Cr.	14

Choose one AAOT Discipline Area Requirement that satisfies the Cultural Literacy Requirement (from list on pg. 24-25)

*Dependent on specific 4 year university requirements.

‡ Optional

Physical Education and Physical Fitness Technology - Guided Pathway

The following courses are recommended for students intending to transfer into a Physical Education and Physical Fitness major at a senior institution (always consult with the specific transfer institution when planning your schedule):

YEAR ONE	Core Courses	Core Courses	AAOT General Requirement	AAOT General Requirement	AAOT General Requirement	Cr.
Fall	General Biology BI 101, 4 Cr. OR Principles of Biology I BI 211, 5 Cr.	College Algebra Math 111 4 Cr.	Psychology of Human Relations PSY 101 3 Cr.	English Composition WR 121, 4 Cr.	PE Activity PE 185 1 Cr.	16
Winter	General Biology BI 102, 4 Cr. OR Principles of Biology II BI 212, 5 Cr.	Pre-Calculus Math 116 4 Cr.†		English Composition WR 122, 4 Cr. OR Technical Report WR 227, 4 Cr.	Human Nutrition NFM 225 4 Cr.	16
Spring	General Biology BI 102, 4 Cr. OR Principles of Biology II BI 213, 5 Cr.	Elementary Functions: Trigonometry Math 112 4 Cr.	Health and Fitness for Life HPE 295 3Cr.	Fundamentals Public Speaking SP 111 3 Cr.	PE Activity PE 185 1 Cr.	15

YEAR TWO	Core Courses	Core Courses	AAOT Discipline Area Requirement	AAOT Discipline Area Requirement	Electives	Electives	Cr.
Fall	Human Anatomy and Physiology I BI 231, 4 Cr. OR General Physics PH 201, 5 Cr*		Social Science (from list on pg. 25) 3 Cr.	Arts and Letters (from list on pg. 24-25) 3 Cr.		First Year Spanish SPAN 101 4 Cr.	14
Winter	Human Anatomy and Physiology II BI 231, 4 Cr. OR General Physics PH 202, 5 Cr*	Introduction to Probability and Statistics Math 243 4 Cr.	Social Science (from list on pg. 25), 3 Cr.	Intercultural Communication SP 115 3 Cr.		First Year Spanish SPAN 102 4 Cr.	18
Spring	Human Anatomy and Physiology III BI 231, 4 Cr. OR General Physics PH 203, 5 Cr*	Small Group Discussion SP 219 3 Cr.	Social Science (from list on pg. 25), 3 Cr.	PE Activity PE 185 1 Cr.		First Year Spanish SPAN 103 4 Cr.	15

Choose one AAOT Discipline Area Requirement that satisfies the Cultural Literacy Requirement (from list on pg. 24-25)

*Dependent on specific 4 year university requirements.

† Optional

Psychology and Social Services - Guided Pathway

The following courses are recommended for students intending to transfer into a Psychology or other Social Services major at a senior institution:

YEAR ONE	Core Courses	Core Courses	Suggested Discipline Area Courses	AAOT General Requirement	AAOT General Requirement	Electives	Cr.
Fall	General Psychology PSY 201 3 Cr.		Intro. to Cultural Anthropology ◆ ANT 103 3 Cr.	English Composition WR 121 4 Cr.	College Algebra MTH 111, 4 Cr. or Calculus I MTH 251, 5 Cr.	Information Research Skills LIB 127 1 Cr.	15
Winter	General Psychology PSY 202 3 Cr.	Psychology of Human Relations PSY 101 3 Cr.		English Composition WR 122, 4 Cr. or Technical Writing WR 227, 4 Cr.	Pre-Calculus MTH 116, 4 Cr. or Calculus II MTH 252, 4 Cr.		14
Spring	General Psychology PSY 203 3 Cr.	Intro. to Women's Studies WS 201 3 Cr.	Arts & Letters (from list on pages 24-25) 3 Cr.	Fundamentals of Public Speaking SP 111 3 Cr.	Elementary Functions: Trigonometry MTH 112, 4 Cr. or Calculus III MTH 253, 4 Cr.		16

YEAR TWO	Core Courses	Core Courses	Suggested Discipline Area Courses	Suggested Discipline Area Courses	AAOT General Requirement	Electives	Cr.
Fall	General Sociology: Intro SOC 204 3 Cr.	General Biology BI 101 4 Cr.	History of Western Civilization I ◆ HST 101 3 Cr.	Arts & Letters (from list on pages 24-25) 3 Cr.	PE Activity PE 185 1 Cr.	Transfer Electives 1+ Cr.	15
Winter	Developmental Psychology PSY 215 3 Cr.	General Biology BI 102 4 Cr.	History of Western Civilization II ◆ HST 102 3 Cr.		PE Activity PE 185 1 Cr.	Intro: Probability & Statistics MTH 243 4 Cr.	15
Spring		General Biology BI 103 4 Cr.	History of Western Civilization III ◆ HST 103 3 Cr.	Arts & Letters (from list on pages 24-25) 3 Cr.	PE Activity PE 185 1 Cr.	Intro: Probability & Statistics MTH 244 4 Cr.	15



Associate of Science, Oregon Transfer Degree in Business (ASOT-Bus)

ASSOCIATE OF SCIENCE OREGON TRANSFER PROGRAM IN BUSINESS

Role Descriptions: The Oregon Transfer Program in Business is designed for the person intending to transfer to upper division work in Business at a four-year Oregon University.

Intended Learning Outcomes: Learning experiences in this program are designed to assist the student in realizing the following outcomes:

1. Work within the ethical, legal, and regulatory parameters for business enterprises.
2. Calculate, compile, and analyze financial records to make prudent business decisions.
3. Draw on knowledge of the arts and sciences to address business-related issues.
4. Use an understanding of economic policy to reflect on personal, local, and world issues.
5. Express ideas clearly and creatively in diverse ways through art, speech, writing, technologies, and mathematics.
6. Use research skills to access information from multiple sources; use critical thinking skills to evaluate and synthesize information in the form of conclusions, ideas, and opinions.
7. Engage in civic opportunities with a sense of personal empowerment.
8. Apply identified learning skills to advance in academic, career, and personal development across the lifespan.
9. Show respect for diverse cultures and differing world views while embracing a sense of pride in one's own regional values and heritage.

You have the opportunity to broaden your creative and critical knowledge through an Arts and Sciences program. You might enroll in the lower division program to explore several fields of study to clarify your educational and professional goals. Or you might seek a broad general education as a foundation in preparation for specialization during your junior and senior years at a four-year institution.

Many students attend Clatsop Community College for one or more terms and then transfer to a four-year college. The Associate of Science, Oregon Transfer Degree in Business provides you an opportunity to complete the first two-years of a four-year business degree at Clatsop Community College. This degree allows you to complete all of the lower division general education requirements of Oregon University System institutions. Upon admission to the Oregon University System institution, you will have junior year standing for purposes of registration only. It may be possible that there may be some lower division course requirements that must be satisfied for the business program at the Oregon University System institution.

You should work closely with your academic advisor at Clatsop. It is very important that you attempt to identify the Oregon University System institution to which you plan to transfer for your baccalaureate degree as early as possible. As you will see on the following pages, each university has its unique business program prerequisite requirements, including, in some cases, grade point average. You should also confer with the university to which you intend to transfer to ensure that you are satisfying all of their requirements for admission into their business program.

General Requirements

- **Writing:** Students taking writing courses of three credits each must take WR121, WR122, and WR227. Students taking writing classes of four credits each must take WR121 and either WR122 or WR227. Information Literacy will be included in the writing requirement.
- **Oral Communication:** One course in the fundamentals of speech or communication designated by the college as meeting the statewide criteria for speech communication.
- **Mathematics:** A minimum of three courses for which Intermediate Algebra is a prerequisite, including one course in statistics.
- **Computer Applications:** Proficiency in word-processing, spreadsheet, database, and presentation software as demonstrated by successful completion of applicable courses.

Discipline Studies

Arts & Letters: Three courses, chosen from at least two disciplines. (CHOOSE FROM THE FOLLOWING LIST)

ARCH 215 History Pacific NW Architecture..... 3	◆FR 201,202,203.... Second Year French..... 4 ea
ARCH 216 Northwest Architects 3	◆HUM 101,102,103 Introduction to Humanities 3 ea
ART 115,116,117 Basic Design I, II, III..... 3 ea	MUS 105 Music Appreciation 3
ART 204,205,206 ... History of Western Art I, II, III 3 ea	PHL 101 Philosophical Problems 3
ASL 201 Amer Sign Language-Conv Skills 3	PHL 102 Ethics..... 3
ENG 104 Intro to Literature-Fiction 3	PHL 103 Critical Reasoning 3
ENG 106 Intro to Literature-Poetry 3	R 201,202,203 Great Religions of the World..... 3 ea
◆ENG 107 World Lit.-The Ancient World 3	SP 111..... Fundamentals of Public Speaking 3
◆ENG 108 World Lit.-Medieval/Renaissance 3	◆SP 112..... Persuasive Speech 3
◆ENG 109 World Lit.-Africa/Asia/Latin Am 3	◆SP 115..... Intro. to Intercultural Communication .. 3
ENG 110 Introduction to Film Studies..... 3	SP 130 Business & Professional Speaking 3
◆ENG 180 Gothic Literature 3	SP 218 Interpersonal Communication 3
◆ENG 204 English Literature:Medieval..... 3	◆SP 219 Small Group Discussion..... 3
◆ENG 205 English Literature:Renaissance 3	SPAN 201,202,203.. Second Year Spanish 4 ea
◆ENG 206 English Literature:Victorian/Modern 3	WR 240 Creative Writing-Nonfiction..... 3
◆ENG 220 Multicultural American Literature 3	WR 242 Creative Writing-Poetry 3
◆ENG 221 Intro to Children's Literature 3	WR 249 Writing Children's Books..... 3
◆ENG 263 Autism in Literature 3	WR 270 Literary Publishing..... 4

Social Science: Four courses chosen from two or more disciplines, with a minimum of two courses in “principles of economics” (to include microeconomics and macroeconomics*) at the 200 level. The courses in economics must be completed with a grade of “C” or better.

(CHOOSE FROM THE FOLLOWING LIST)

ANT 101 Intro: Biological Anthropology 3	PS 205 International Politics 3
◆ANT 102..... Intro: Archaeology and Prehistory 3	PSY 101 Psychology of Human Relations..... 3
◆ANT 103..... Intro: Cultural Anthropology 3	PSY 201,202,203 ... General Psychology 3 ea
EC 201,202 Principles of Economics..... 4 ea	PSY 215 Intro. to Developmental Psychology 3
HFS 226 Growing Years..... 3	PSY 219 Intro. Abnormal Psychology 3
◆HST 101,102,103 History of Western Civilization 3 ea	◆SOC 204 General Sociology: Introduction 3
◆HST 104,105,106 World History I, II, III..... 4 ea	◆SOC 205..... General Sociology: Social Issues 3
◆HST 201,202,203 History of the United States 3 ea	◆SOC 225..... General Sociology: Global Issues 3
HST 218 Native American History 3	◆WS 201..... Introduction to Women's Studies 3
HST 245 Lewis/Clark Course of Discovery 3	◆WS 210..... Cultural Perspective/Women of Color .. 3
HST 277 History of the Oregon Trail 3	◆WS 221..... Women, Difference & Discrimination .. 3
◆PHL208 Political Philosophy 3	◆WS 230..... Women and Social Action 3
PS 201, 202 American Government 3 ea	
PS 203 State and Local Government..... 3	

Science: Four courses from at least two disciplines including at least three laboratory courses in biological and/or physical science.

(CHOOSE FROM THE FOLLOWING LIST)

*BI 101,102,103.... General Biology..... 4 ea	GS 161 Field Biology of Oregon..... 3
*BI 143..... Marine Biology..... 4	MTH 105..... Math in Society 4
*BI 211,212,213.... Principles of Biology I, II, III..... 4 ea	MTH 111 College Algebra 4
BI 222..... Human Genetics 3	MTH 112..... Elementary Functions (Trigonometry) .. 4
*BI 231,232,233.... Human Anat. and Physiology I, II, III .. 4 ea	MTH 116..... Pre-Calculus 4
*BI 234..... Introductory Microbiology 4	MTH 211,212,213 .. Fundamentals of Elementary Mathematics I,II,III 4 ea
*BOT 101..... Botany..... 4	MTH 243,244..... Intro. to Probability and Statistics 4 ea
*CH 104,105 Introductory Chemistry I, II 4 ea	MTH 251 Calculus I..... 5
*CH 106 Introductory Chemistry-Biochemistry... 4	MTH 252,253..... Calculus II,III 4 ea
*CH 221,222,223 .. General Chemistry 5 ea	*PH 201,202,203 ... General Physics 5 ea
*ES 160..... Techniques in Environmental Information Analysis..... 4	*PH 211,212,213.... General Physics with Calculus 5 ea
*ES 202..... Applied Environmental Studies: Prep for Problem Solving..... 4	
*GS 104 Physical Science-Physics..... 4	
*GS 105 Physical Science-Chemistry 4	
*GS 106 Physical Science-Geology 4	
*GS 109 Physical Science-Meteorology 4	
*GS 112..... Chem and Cell Biology 5	

*courses that meet the lab science requirements of the ASOT-Bus

◆ courses that meet the cultural literacy requirement of the ASOT-Bus

Cultural Literacy

Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. (Courses meeting this criteria in each discipline area have a “◆” notation.)

Business Specific Requirements

Each course in this section must be completed with a grade of “C” or better:

- BA 101 Introduction to Business (4)
- BA 211, 212, 213 Principles of Accounting (12)
- BA 226 Business Law I (4)

Elective and/or University-Specific Prerequisites (8-14 credits)

Depends on choice of transfer institution – Please check with each university for university-specific prerequisites and recommendations. At time of admission, consult university catalog for binding course requirements.

Limitations on electives:

Electives must be courses numbered 100 or higher.

Professional/Technical courses - A total of 12 credits of courses numbered 100 or higher.

Courses that are developmental in nature, designed to prepare students for college transfer courses, are not applicable to this degree.

Physical Education - A maximum of six hours.

Individual Music Lessons (MUP) - A maximum of 12 credits on a primary instrument and six credits on a secondary instrument may be applied to an associate degree.

Cooperative Work Experience - no more than 18 credits of combined worksite and seminar courses.

Institutional Requirements

Complete a minimum of 90 credits of approved lower division collegiate courses.

All courses must be passed with a grade of "C-" or better. Students must have a minimum cumulative GPA of 2.0 at the time the ASOT-Business is awarded.

Have earned a "C" grade or better on all coursework transferred from other institutions that is to be included in a Clatsop Community College degree or certificate.

Complete at least 24 credits at Clatsop Community College.

Foreign Language

Students, who have graduated from high school or completed a high school equivalency program in 1997 or after, must meet one of the following requirements for admission to an Oregon University System institution: either,

- 1) two years of the same high school level language, or
- 2) two terms of college level language with a grade of “C” or better (may be first year language; ASL [American Sign Language] classes also qualify).

Associate of Science, Oregon Transfer Degree in Computer Science (ASOT-CS)

ASSOCIATE OF SCIENCE, OREGON TRANSFER DEGREE IN COMPUTER SCIENCE (ASOT-CS)

Intended Learning Outcomes:

- Acquire new information and adapt to changes in the computer technology field.
- Apply a logical and systematic approach to solve problems.
- Use written, oral, and visual interpersonal skills to communicate with individuals or small groups.
- Design and implement computer software applications.
- Develop an application for an N-tiered environment.
- Evaluate and compare different algorithms applicable to a given task.
- Apply theoretical foundations learned when developing software.
- Use current database technologies to create and build database objects.

All courses should be aligned with the student's intended program of study and the degree requirements of the baccalaureate institution and program to which the student plans to transfer. A student is encouraged to work with an advisor in the selection of elective courses within the ASOT-CS degree for alignment to the institution the student intends to transfer.

All Foundational Requirements and Discipline Studies courses must be a minimum of 3 credits, except for Health/Wellness/Fitness courses, which may be any number of credits. All Elective courses may be any number of credits.

All courses must be passed with a grade of "C-" or better. Students must have a minimum cumulative GPA of 2.0 at the time the ASOT-CS is awarded. (note: many CS programs have competitive admission, minimum GPA and grades will not generally be high enough to gain admission to competitive programs)

Foundational Requirements

- **Writing:** Students taking writing courses of three credits each must take WR121, WR122, and WR227. Students taking writing classes of four credits each must take WR121 and either WR122 or WR227. Information Literacy will be included in the writing requirement. (Note: WR227 will meet additional requirements at some CS baccalaureate programs)
- **Oral Communication:** One course in the fundamentals of speech or communication designated by the college as meeting the statewide criteria for speech communication.
- **Mathematics:** Must include at minimum MTH 251 Differential Calculus and MTH 252 Integral Calculus.
- **Health/Wellness/Fitness:** One or more courses totaling at least 3 credits.

Associate of Science, Oregon Transfer Degree in Computer Science (ASOT-CS)

Discipline Studies

Arts and Letters: Three courses chosen from two or more disciplines.

Social Sciences: Four courses chosen from two or more disciplines.

Science/Math/Computer Science: Four courses from at least two disciplines including at least three laboratory courses in biological and/or physical science (1. see program specific requirements as some programs require physics; 2. note that the CS and Math core required courses will meet the requirement for 1 of the 4 required courses, so normally only 3 science courses outside of CS/Math are needed)

Cultural Literacy: Students must select one course from any of the discipline studies that is designated as meeting the statewide criteria for cultural literacy.

Computer Science specific requirements

A minimum of sixteen credits in Computer science consisting of the following courses. Each course in this section must be completed with a grade of "C" or better (note: many CS programs have competitive admission, minimum GPA and grades will not generally be high enough to gain admission to competitive programs).

Required courses are:

- CS 160W: Introduction to Computer Science
- CS 161: Computer Science 1
- CS 162: Computer Science 2
- CS 260: Data Structures

Electives

Complete additional courses to bring the total number of credits to at least 90; varies depending on the student's selection of courses to meet the requirements above. Please carefully plan this in consultation with university specific CS program requirements.

Lower division courses taken at the community college may not meet the requirements of an upper division course with a similar title and content offered by an Oregon public university Computer Science program. In such cases, the courses in question will normally transfer as electives. The ASOT-CS degree may include up to 12 approved professional/technical credits as electives.

University Program Advising Guide

Note: below are program specific, lower division BA/BS graduation requirements and program notes. These are not ASOT-CS graduation requirements; these are the courses taken for the elective block. Numbers shown are common community college numbers unless otherwise noted.

BA/BS Lower Division Graduation Requirements	University Notes
Eastern Oregon University	BS Computer Science
<ul style="list-style-type: none"> • CS133x (C/C++) • Mth231 	http://cs.eou.edu/
Oregon State University	BS Computer Science
<p>All CS/IS applicants:</p> <ul style="list-style-type: none"> • If you take WR227 instead of WR122 you will also need to take WR214 (The WR227 will transfer in as WR327) • CS275: Database Systems • Mth 231 & 232 (to satisfy 231 at OSU) <p>Applied CS Option extra requirements:</p> <ul style="list-style-type: none"> • CS271 <p>Information Systems Option extra requirements:</p> <ul style="list-style-type: none"> • CS271, Econ 201 <p>Systems Option extra requirements:</p> <ul style="list-style-type: none"> • Mth 254, Mth306, Ph 211/221, ECE271 	<p>1) To become a CS major at OSU you must be admitted to ProSchool in addition to being admitted to the university. ProSchool admissions is GPA based (cutoff depends on capacity and number of applicants) and requires that you have completed the OSU core degree requirements. Applications are due July 1st for Fall term admission.</p> <p>http://eecs.oregonstate.edu/undergraduate-students/pro-school</p>
Oregon Institute of Technology	BS Software Engineering Technology
<ul style="list-style-type: none"> • Take both WR122 and WR227 • Mth254 • CST136 OOP (CS261 at PCC) • PSY201 for social science • Can transfer in CS271 and CS275 for needed credits 	<p>1) Physics with Calculus required for science sequence 2) Math253 will be used as one of three technical elective courses 3) Course in Discrete Math or Discrete Structures</p> <p>www.oit.edu/academics/degrees/software-engineering-technology</p>
Portland State University	BS Computer Science
<ul style="list-style-type: none"> • CS201, CS202 (CS261 at PCC), • CS250, CS 251 (discrete math at PSU) • Mth253, WR227, SP111 • Science courses must consist of an approved sequence of lab science courses. Choices are: Ph 211/212/213, Ch 221/222/223, or BI 211/212/253 (PSU numbers 251/252/253) each with appropriate labs. 	<p>1) To become a CS major at PSU you must be admitted to the CS program in addition to being admitted to the university. Admission to the major requires a 2.0 all-attempts GPA in the PSU CS core, a C- or better in other required lower division courses, as well as passing an in person programming proficiency exam. Fall applications to the major are due July 1st.</p> <p>http://pdx.edu/computer-science/bachelor-of-science-program#adm</p>
Southern Oregon University	BS Computer Science
	1) Must have grade of B or higher in CS161/CS162 (SOU CS256/CS257)
University of Oregon	BS Computer Information Science
<ul style="list-style-type: none"> • MTH 231 & 232 • Calculus I, II and III or Calculus with theory I, II, III 	1) Physics sequence required for Networks track students
Western Oregon University	BS Computer Science, BS Information Systems
<ul style="list-style-type: none"> • CS133x or CS233x or CS234x or CS262: Programming language* • CS271: Computer Organization 	<p>* Take a course in Java, if CS161-162 is in another language, otherwise any 2nd language in different programming paradigm from CS161-162</p> <p>http://www.wou.edu/las/cs/</p>

Oregon Transfer Module (OTM)

The Oregon Transfer Module represents approximately half (45 credits) of an associate degree or the first year of a baccalaureate degree. Although students do not earn a degree or certificate, any student successfully completing an OTM (which conforms to the guidelines below) will be able to seamlessly transfer their first year of general education requirements to any Oregon community college, Oregon University System institution or participating Oregon independent college or university. It is the student's responsibility to confer with the school to which they intend to transfer. The receiving institution may specify additional course work that is required for a major or for degree requirements or to make up the difference between the Transfer Module and the institution's total General Education requirements.

GUIDELINES: The Oregon Transfer Module includes the following course work, which is equivalent to 3 academic quarters. The coursework must be chosen from the courses approved for the categories below. These will be courses approved for the AA/OT degree. All courses must be passed with a grade of "C" or better and must be worth at least 3 credits.

Foundational Skills:

Writing: WR 121 and either WR 122, WR 123 or WR 227.

Oral Communication: Students must complete one course in the fundamentals of speech or communication. This course cannot be used to meet the Arts & Letters discipline requirement.

Mathematics: Students must complete one course in college-level mathematics, for which MTH 095 Intermediate Algebra is a prerequisite. This course cannot be used to meet the Math/Science requirement.

Discipline Requirements

Arts & Letters: Students must complete three courses chosen from two or more disciplines. The second year of a foreign language, but not the first year, may be included among courses that count toward the Arts and Letters requirement.

ARCH 215History Pacific NW Architecture3	HUM 101,102,103 .Introduction to Humanities.....3 ea
ARCH 216Northwest Architects3	MUS 105Music Appreciation3
ART 115,116,117 ...Basic Design I, II, III.....3 ea	PHL 101Philosophical Problems3
ART 204,205,206 ..History of Western Art I, II, III.....3 ea	PHL 102Ethics3
ASL 201Amer Sign Language-Conv Skills.....3	PHL 103Critical Reasoning3
ENG 104Intro to Literature-Fiction.....3	R 201,202,203Great Religions of the World.....3 ea
ENG 105Intro to Literature - Drama3	SP 111Fundamentals of Public Speaking3
ENG 106Intro to Literature-Poetry.....3	SP 112Persuasive Speech3
ENG 107World Lit.-The Ancient World.....3	SP 115Intro. to Intercultural Communication...3
ENG 108World Lit.-Medieval/Renaissance3	SP 218Interpersonal Communications.....3
ENG 109World Lit.-Africa/Asia/Latin Am3	SP 219Small Group Discussion3
ENG 110Introduction to Film Studies.....3	SPAN 201,202,203 .Second Year Spanish4 ea
ENG 180Gothic Literature3	WR 227Technical Writing4
ENG 204English Literature-Medieval.....3	WR 240Creative Writing-Nonfiction3
ENG 205English Literature-Renaissance3	WR 242Creative Writing-Poetry.....3
ENG 206English Literature-Victorian/Modern ...3	WR 249Writing Children's Books3
ENG 220Multicultural American Literature.....3	WR 270Literary Publishing4
ENG 221Intro to Children's Literature3	
ENG 263Autism in Literature3	
FR 201,202,203Second Year French4 ea	

Social Science: Students must complete three courses chosen from two or more disciplines.

ANT 101Intro: Biological Anthropology3	PSY 201,202,203 ... General Psychology3 ea
ANT 102Intro: Archaeology and Prehistory.....3	PSY 215Intro. to Developmental Psychology3
ANT 103Intro: Cultural Anthropology.....3	PSY 219Intro: Abnormal Psychology3
EC 201,202Principles of Economics4 ea	SOC 204General Sociology: Introduction3
HFS 226Growing Years3	SOC 205General Sociology: Social Issues.....3
HST 101,102,103 ..History of Western Civilization3 ea	SOC 225General Sociology: Global Issues3
HST 104,105,106 ...World History I, II, III4 ea	WS 201.....Introduction to Women's Studies3
HST 201,202,203 ... History of the United States3 ea	WS 210.....Cultural Perspective/Women of Color ...3
HST 218Native American History3	WS 221.....Women, Difference & Discrimination ...3
HST 245Lewis/Clark Course of Discovery.....3	WS 230.....Women and Social Action.....3
HST 277History of the Oregon Trail.....3	
PHL 208Political Philosophy3	
PS 201, 202American Government.....3 ea	
PS 203State and Local Government.....3	
PS 205International Politics3	
PSY 101Psychology of Human Relations.....3	

Science/Mathematics: Students must complete two courses totaling at least ten credits, including at least one laboratory course in biological or physical science.

*BI 101,102,103... General Biology	4 ea	*GS 106	Physical Science-Geology	4
*BI 143..... Marine Biology	4	*GS 109	Physical Science-Meteorology	4
*BI 211,212,213... Principles of Biology I, II, III.....	4 ea	*GS 112.....	Chem and Cell Biology	5
BI 222..... Human Genetics	3	GS 161	Field Biology of Oregon	3
*BI 231,232,233... Human Anat. and Physiology I, II, III	4 ea	MTH 105.....	Math in Society	4
*BI 234..... Introductory Microbiology	4	MTH 111	College Algebra.....	4
*BOT 101..... Botany	4	MTH 112.....	Elementary Functions (Trigonometry)	4
*CH 104,105	Introductory Chemistry I, II	MTH 116.....	Pre-Calculus	4
*CH 106	Introductory Chemistry-Biochemistry	MTH 211,212,213	Fundamentals of Elementary Math. I,II,III .	4 ea
*CH 221,222,223.	General Chemistry.....	MTH 243,244.....	Intro. to Probability and Statistics	4 ea
*ES 160	Techniques in Environmental Information Analysis.....	MTH 251.....	Calculus I.....	5
*ES 202	Applied Environ Studies: Prep for Problem Solving.....	MTH 252,253.....	Calculus II,III	4 ea
*GS 104	Physical Science-Physics	*PH 201,202,203 .	General Physics	5 ea
*GS 105	Physical Science-Chemistry	*PH 211,212,213..	General Physics with Calculus	5 ea

*courses which meet the lab science requirement

Electives:

As required to bring the total credits to 45. Courses must be from the areas listed above (Arts and Letters, Social Science, or Science/Math).

Institutional Requirements:

Earn a "C" grade or better on all Clatsop Community College coursework.

Have earned a "C" grade or better on all coursework transferred from other institutions that is to be included in a Clatsop Community College OTM, degree or certificate.

You may apply a maximum of 12 credits of “pass” grades toward the OTM. However, Foundational Skills courses must be taken for a grade.

Complete at least 12 credits at Clatsop Community College.

Associate of General Studies (AGS)

ASSOCIATE OF GENERAL STUDIES (AGS)

Role Descriptions: The General Studies Program is designed to meet the needs of students wanting to focus their studies in an area of personal choice across multiple disciplines.

Intended Learning Outcomes: Learning experiences in this program are designed to assist the student in realizing the following outcomes:

1. Read and critically interpret text (written, visual, digital); process content and context to construct meaning.
2. Communicate clearly and effectively through verbal, written, visual, and quantitative expressions.
3. Engage in creative inquiry and expression.
4. Solve problems using science, math, and technology.
5. Draw from multiple disciplines in order to understand the human condition.
6. Contribute as a member of the local community with a cultural and historical understanding of the northwest region in a global context.
7. Bring an understanding of the value of diversity to the community, the workplace, and the home; learn from different cultures, belief systems, and life styles.
8. Investigate, interpret, and communicate ideas about both natural and cultural landscapes.
9. Develop habits and skills that lead to the accomplishment of goals.
10. Seek out and engage in lifelong learning opportunities that broaden perspective, deepen understanding, and increase personal fulfillment.

The Associate of General Studies (AGS) degree provides students flexibility in using a variety of college-level courses (generally 100-level or above) to design a two-year degree program in broad interdisciplinary areas. These courses can come from general education, academic, or collegiate-level professional-technical courses found in this catalog to the meet Clatsop Community College's associate degree requirements.

The AGS is tailored to the student's needs and interests while maintaining high general education standards. Students will need to work closely with an academic advisor at Clatsop in designing their individual degree plan of study. At least 24 of the credits earned for the AGS must be taken at Clatsop Community College.

Please Note: students planning to transfer to a public four-year institution within Oregon should complete the AAOT degree (found on page 24), which is articulated statewide with the Oregon University System four-year colleges and universities.

Complete 36 credits or more from a cluster of related courses the student and his/her advisor identify. Student should identify the cluster of courses as soon as possible after enrollment, but no later than the term prior to the term in which he/she plans to graduate.

Complete the following General Education Requirements:

Writing: 2 courses with a "C" or better in each class from the following:

- a. WR 121 English Composition
and
- b. Four credits from the following: WR 122 Advanced Composition, WR 227 Technical Writing; or three credits from BA 214 Business Communication.

Mathematics: One course numbered 100 or higher, with a "C" or better.

Arts & Letters and/or Social Sciences: Six credits of Arts & Letters and/or Social Science courses from the Arts and Letters and Social Science lists on pages 24 and 25.

Institutional Requirements

- Student must complete a minimum of 90 credits of coursework to include alpha-numeric courses 100-299.
- Earn a grade point average of 2.00 or above for all Clatsop Community College coursework.
- Have earned a "C" grade or better on all coursework transferred from other accredited colleges and universities that is to be included in a Clatsop Community College degree or certificate.
- Apply no more than a maximum of 24 credits of pass grades toward an Associate Degree.
- Complete at least 24 credits at Clatsop Community College.

See pages 50-81 for specific Applied Science programs and requirements.

Applied Science programs provide the skills and work experience you'll need to qualify for employment. With the help of a local industry advisory committee, each program is carefully planned to meet the needs of the current job market. Instruction is provided by trained, experienced professionals, and classes are conducted in an industry-like work setting. The Cooperative Work Experience program offers credit for on-the-job experience with local employers in the field of your choice.

Applied Science programs include general education courses to assure that you have a basic understanding of writing, mathematics, human relations, and social sciences and/or humanities. While courses are not specifically intended for transfer to a four-year college or university, certain courses are currently accepted for transfer credit at specific institutions. In most cases, Professional/Technical courses can be transferred to other community colleges which offer similar programs. If you are planning to transfer, consult with appropriate representatives of the school you are planning to attend and with your Clatsop Community college advisor.

We offer one-year, two-year, or specialized training programs depending on the type and amount of preparation required for entry-level employment or professional renewal. Several options are available in many programs. Individuals holding state certifications in programs such as Fire Science and Emergency Medical Technician may be able to get credit based on their previous training. See a counselor or your advisor as you begin planning a specific program. Specific degree and certification requirements are listed below.

General Requirements

Writing: 2 courses with a "C" or better in each class from the following:

- a. WR 121 English Composition *and*
- b. Either WR 122 Advanced Composition; WR 227 Technical Writing; BA 214 Business Communication; or a course specified by the specific Applied Science program.

Mathematics: Four credits, with a "C", "P" or better, in MTH 65 Mathematics for the Applied Sciences or MTH 95 Intermediate Algebra or a higher numbered math course.

Arts & Letters/

Social Sciences: Six credits are required. Take any 3 credit Arts & Letters and/or Social Science courses taught

Human Relations: 1 course from the following list: BA 206, BA 285, MA 207, PSY 101, PSY 190, SP 115, or SP 119

Program Courses

Required Courses: As prescribed in the specific Applied Science program.

Technical electives: Technical electives provide student choice within an approved program. The number of technical option credits available is specified by the individual Applied Science programs.

Electives: The number of elective credits is specified by the specific Applied Science program. Students have the opportunity to choose these courses numbered 100 - 299.

Institutional Requirements

- Complete a minimum of 90 credits of approved coursework which includes alpha-numeric courses 100-299, and a maximum of 21 credits of courses numbered 9.000-9.999 to be taken at Clatsop Community College.
- Earn a grade point average of 2.00 or above for all Clatsop Community College coursework.
- Have earned a "C" grade or better on all coursework transferred from other accredited colleges and universities that is to be included in a Clatsop Community College degree or certificate.
- Apply no more than a maximum of 24 credits of pass grades toward an Associate Degree.
- Complete at least 24 credits at Clatsop Community College.
- Some applied science programs require a "C" grade or better on specific program courses. Please refer to programs for course grade requirements.

LEARNING OUTCOMES: GENERAL APPRENTICESHIP, ASSOCIATE OF APPLIED SCIENCE DEGREES

- Construction Trades, AAS Degree
- Electrician Apprenticeship Technologies, AAS Degree
- Industrial Mechanics & Maintenance Technology Apprenticeship, AAS Degree

Role Descriptions: These apprentice programs are designed for the person intending to work beyond the level of journeyman as coordinator, leader, or supervisor in industrial trade and community roles.

Intended Learning Outcomes: In addition to apprentice and related learning courses, the learning experiences which complete this degree program are designed to assist the student in demonstrating the following outcomes:

1. Apply critical thinking skills to investigate, interpret, and communicate issues involving the trade, the community, and the home.
2. Coordinate projects and supervise others.
3. Lead a team unit in a direction that aligns with stated vision, mission, and values.
4. Work within the legal, regulatory, and code parameters of the trade/community.
5. Work to establish and promote a collaborative work environment where all voices are heard and valued as they contribute to shared goals.
6. Seek out and engage in learning opportunities that broaden perspective, deepen understanding, and increase personal fulfillment throughout life.
7. Use verbal, non-verbal, and written communication skills effectively.

CONSTRUCTION TRADES, GENERAL APPRENTICESHIP ASSOCIATE OF APPLIED SCIENCE DEGREE

Job Description:

This associate of applied science degree program is **designed for a person currently in or who has completed a Bureau of Labor and Industries (BOLI) approved construction trades apprenticeship** and who intends to work beyond the level of journeyman as coordinator, leader, or supervisor in industrial trade and community roles.

Employment Opportunities:

The labor market outlook for all construction trades in Oregon is projected to be strong and steady, with seasonal variations, with growth rates from 17% to 29%. Job growth among first-line supervisors/managers of construction trades also can expect strong career opportunities, with Oregon growth rates of 15% through 2016, and with projected growth of 21.4% in Clatsop, Columbia, and Tillamook counties.

Potential Earnings:

The average Oregon entry wage for all construction workers is, on average, \$11.15. For first line supervisors, the entry wage is \$18.18, and the median wage is \$28.16. *See course list on next page.*

ELECTRICIAN APPRENTICESHIP TECHNOLOGIES ASSOCIATE OF APPLIED SCIENCE DEGREE

Job Description:

This associate of applied science degree program is **designed for a person currently in or who has completed a Bureau of Labor and Industries (BOLI) and Oregon Building Codes approved electrical trades apprenticeship** and who intends to work beyond the level of journeyman as coordinator, leader, or supervisor in industrial trade and community roles.

Employment Opportunities:

Employment for electricians is expected to grow at about the statewide average. Total job openings are projected to be much higher than the statewide average. The labor market outlook for electricians in Oregon is to grow from 5% to 25%. Projected growth in Clatsop, Columbia, and Tillamook counties is 13.1%. Job growth among first-line supervisors/managers of electricians also can expect strong career opportunities, with Oregon growth rates of 15% through 2016, and projected growth of 21.4% in Clatsop, Columbia, and Tillamook counties.

Potential Earnings:

The average Oregon entry wage for electricians is, on average, \$17.79, and the median wage is \$29.08. Electricians in Clatsop, Columbia, and Tillamook counties earn from \$26.37 at entry to a median of \$31.81. For first line supervisors, the entry wage is \$18.18, and the median wage is \$28.16. *See course list on next page.*

INDUSTRIAL MECHANICS AND MAINTENANCE TECHNOLOGY APPRENTICESHIP ASSOCIATE OF APPLIED SCIENCE DEGREE

Job Description:

This associate of applied science degree program is **designed for a person currently in or who has completed a Bureau of Labor and Industries (BOLI) apprenticeship in the following trades** and who intends to work beyond the level of journeyman as coordinator, leader, or supervisor in industrial trade and community roles. The trades are boiler/turbine operator, die cast mold, heat and frost insulator, industrial mobile mechanic, machinist, millwright, motor winder, pipefitter, roll turner, instrumentation technician, and welder.

Employment Opportunities:

Overall, the average growth rate for all of the industrial mechanics and maintenance apprenticeship trades is about 12%. Welders will be the largest number of openings in Oregon, with 2,092 opening between now and 2017. The growth rate for all trades in this category is less than 8% through 2017, however applicants with broad skills in machine repair and maintenance will have favorable job prospects due to many retirements and a shortage of young workers with the necessary skills.

Potential Earnings:

Depending upon the employers' geographic location and any union/open shop affiliation, those completing this program can expect to earn \$11.09 to \$28.54 per hour. The average Oregon wage for welders is, on average, \$16.09. Welders in Clatsop, Columbia, and Tillamook counties earn from \$13.29 at entry to a median of \$18.10. Instrument technicians in Oregon earn about \$25.10.

COURSE LIST:

CONSTRUCTION TRADES, ELECTRICIAN, AND INDUSTRIAL MECHANICS & MAINTENANCE TECHNOLOGY APPRENTICESHIP AAS DEGREES:

Course Number	Course Title	Credits	Additional Course List
WR 121	English Composition*.....	4	Select three (3) courses from following list: BA 206 Management Fundamentals3 BA 226 Introduction to Business Law4 BA 285 Human Relations in Business3 DRF 139 Technical Print Interpretation or3 BLD 140 Print Reading for Construction(3) EC 201 Principles of Economics4 PHL 102 Ethics.....3 PHL 103 Critical Reasoning3 PSY 201 General Psychology3 SP 112 Persuasive Speech3 SP 115 Intro. to Intercultural Communication ..3 SP 219 Small Group Discussion3
WR 122	Advanced Composition* and either	4	
WR 227	Technical Writing* or(4)		
BA 214	Business Communication*.....(4)		
SP 111	Fundamentals of Public Speaking*.....	3	
MTH 65	Math for Applied Sciences** or	4	
MTH 95	Intermediate Algebra**.....(4)		
PSY 101	Psychology of Human Relations.....	3	
CS 131	Intro. to Computer Info. Systems.....	4	
	Arts and Letters/Social Sciences***.....	3	
	Trade Competency +.....	22	
	Related Training ++.....	36	
	Additional Course List.....	9	
	Total Credits.....	92	

* Minimum grade "C" or higher.

** Minimum grade "C", "P" or higher. Higher level math may be substituted.

*** Selected from Arts and Letters and Social Science listed on pages 24 and 25.

+ Journey card (credit for prior certification).

++ Minimum of 36 credits required.

YEAR ONE One-Year Certificate • AAS Degree

FALL	Intro to Automotive Technology AUTO 101, 4 Cr.	Engine Fundamentals and Repair AUTO 108, 4 Cr.	Industrial Safety *** IT 140, 1 Cr.	Fundamentals of Public Speaking SP 111, 3 Cr.	Materials Processing WLD 100, 3 Cr.	
	WINTER	Brake Systems I AUTO 130, 4 Cr.	Electrical/Electronics I AUTO 125, 4 Cr.	Math for Applied Sciences * <i>or</i> MTH 65, 4 Cr.	Intermediate Algebra* MTH 95, 4 Cr.	Cooperative Work Experience Automotive AUTO 280, 2 Cr.
		SPRING	Steering & Suspension I AUTO 120, 4 Cr.	Electrical/Electronics II AUTO 135, 4 Cr.	Psychology of Human Relations PSY 101, 3 Cr. <i>or</i> Human Relations in Business BA 285, 3 Cr.	English Composition** WR 121, 4 Cr.

Certificate Notes: The program addresses the application of technical writing skill as the trainee delivers written quality control reports. Students demonstrate practical math applications throughout the program. Upon completion the trainees will receive a Certificate of Completion from CCC qualifying them as an entry-level automotive technician. With the addition of two years minimum field experience and upon successful completion of the NIASE exam, trainees may become a certified ASE Automotive Technician in their field of training.

YEAR TWO AAS Degree

FALL	Advanced Steering, Suspension/Brakes AUTO 210, 4 Cr.	Engine Performance I AUTO 224, 4 Cr.	Advanced Composition** <i>or</i> WR 122, 4 Cr.	Technical Writing** WR 227, 4 Cr.	Computer Aided Design I DRF 213, 4 Cr.	
	WINTER	Automotive HVAC AUTO 230, 4 Cr.	Engine Performance II AUTO 234, 4 Cr.	Shielded Metal Arc Welding WLD 101, 2 Cr.	Intro/Intercultural Communication SP 115, 3 Cr. <i>or</i> <i>see "or" box below</i>	Cooperative Work Experience AUTO 280, 2 Cr.
		SPRING	Fluid Drive & Hydraulic Transmissions AUTO 209, 4 Cr.	Engine Diagnosis & Service AUTO 229, 4 Cr.	Applied Technology Project IT 110, 2 Cr.	Gas Metal Arc Welding WLD 102, 2 Cr.

AAS Notes: Upon completion the trainees will receive an Associate of Applied Science Degree, and a Competency Certificate from CCC qualifying them as an entry-level automotive technician. With the addition of two years minimum field experience, and upon successful completion of ASE exams of their choice, trainees may become ASE Automotive Technicians in their field of training.

<i>or</i>	Customer Service Skills BA 141 3 Cr.	<i>or</i>	Human Resource Management BA 224 3 Cr.	<i>or</i>	Human Relations In Business BA 285 3 Cr.	<i>or</i>	Business Professional Speaking SP 130 3 Cr.	<i>or</i>	Persuasive Speech SP 112 3 Cr.
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Note: All AUTO, IT and WLD courses must be completed with a grade "C" or higher.

Note: Automotive courses can be taken out of sequence with faculty approval. Please contact Automotive Faculty directly with your request.

Legend Notes:

* Minimum grade "C", "P" or higher. Math courses numbered higher than MTH 95 may be substituted.

** Minimum grade "C" or higher.

*** IT 140 uses CD-ROM training modules. Satisfactory completion of this class is required before taking classes in any of the shop facilities.

**** Selected from Arts and Letters and Social Science lists on pages 24-25.

ACCOUNTING TECHNICIAN CAREER PATHWAY CERTIFICATE *OR* ASSOCIATE OF APPLIED SCIENCE DEGREE

Job Description:

This program prepares people for entry-level positions as accounting clerks, junior accountants, or bookkeepers who maintain financial records needed for business management. They prepare financial statements, payroll records and reports, and keep books and records up to date. They put together reports to show statistics such as cash receipts and expenditures, accounts payable and receivable, profit and loss, and financial position. They may complete worksheets, bank reconciliations, inventory reports, depreciation schedules, and income tax forms. Knowing how to use the computer is essential.

Employment Opportunities:

The opportunities depend on the economy, replacement needs, and continued use of accounting and bookkeeping services in public, private, and governmental organizations. The use of computers to perform routine accounting and bookkeeping functions is present in all different sizes of organizations.

Potential Earnings:

The average entry wage is about \$2,600 per month and the average maximum wage is about \$4,733 per month.

LEARNING OUTCOMES: ACCOUNTING: ASSOCIATE OF APPLIED SCIENCE DEGREE

Role Descriptions: The Accounting Program is designed for persons who intend to enter the accounting profession as assistant accountant, bookkeeper, or accounting clerk.

Intended Learning Outcomes: Learning experiences in this program are designed to assist the student in realizing the following outcomes:

1. Apply fundamental accounting principles to the needs of an organization or individual client.
2. Convey financial information effectively to accounting professionals and non-financial persons both orally and in writing.
3. Exhibit work behaviors that maximize opportunity for continued employment, increased responsibilities, and business success.
4. Initiate and display professional and ethical behaviors individually and collaboratively that contribute to continued employability.

Career Pathway Entry-Level Accounting Clerk

For More Information, See Page 83.

Course Number	Course Title	Credits
BA 101	Introduction to Business*	4
BA 131	Accounting Procedures I*	3
BA 132	Accounting Procedures II *	3
BA 228	Computer Accounting Applications*	3
Total Credits:		13

*"C" grade or better required in preceding course to take this level.

YEAR ONE Accounting Technician AAS Degree

FALL	Introduction to Business** BA 101, 4 Cr.	Accounting Procedures I+** BA 131, 3 Cr.	Human Relations in Business** BA 285, 3 Cr.	Intro. to Integrated Software** MIC 145, 3 Cr.	Spreadsheets** CSL107, 3 Cr.	
	WINTER	Principles of Marketing** BA 223, 3 Cr.	Accounting Procedures II+** BA 132, 3 Cr.	Math for Applied Sciences* MTH 65, 4 Cr. <i>or</i> Intermediate Algebra* MTH 95, 4 Cr.	English Composition** WR 121, 4 Cr.	
		SPRING	Personal Finance** BA 218, 2 Cr.	Automated Accounting** BA 228, 3 Cr.	Intro to Computer Info Systems** CS 131, 4 Cr.	Intro to Business Law I** BA 226, 4 Cr.

YEAR TWO Accounting Technician AAS Degree

FALL	Principles of Accounting I** BA 211, 4 Cr.	Payroll & Business Tax** BA 177, 3 Cr.	Management Fundamentals** BA 206, 3 Cr. <i>or</i> Small Business Management** BA 250, 3 Cr.	Business Communication** BA 214, 4 Cr.	Note: To successfully be awarded the Accounting Technician AAS degree, a student must provide proof that the attainment of a 10-key typing proficiency of 120 KPM with 100% accuracy has been completed during the course of the degree. This documentation must be provided along with the graduation petition for the Accounting Technician AAS degree.	
	WINTER	Principles of Accounting II + BA 212, 4 Cr.	Fundamentals of Public Speaking SP 111, 3 Cr. <i>or</i> Small Group Discussion SP 219, 3 Cr.	Principles of Economics EC 201, 4 Cr. <i>or</i> Principles of Economics EC 202, 4 Cr.		Electives 5 Cr.
		SPRING	Principles of Accounting III + BA 213, 4 Cr.	Cooperative Work Experience BA 280, 2 Cr.		Cooperative Work Experience Seminar ++ BA 281, 1 Cr. <i>or</i> 3 Cr. Elective (with Advisor Approval)

Legend Notes:

- * Minimum grade "C", "P" or higher. Math courses numbered higher than MTH 95 may be substituted.
- ** Minimum grade "C" or higher for successful completion of program.
- + "C" grade or better required in preceding course to take this level.
- ++ The CWE Seminar requirement for any Business degree can be met by completing one of the following courses: BA 281, CS 281, or OA 281.

BUSINESS MANAGEMENT ASSOCIATE OF APPLIED SCIENCE DEGREE

Job Description:

Business management is a term that collectively describes those who have management responsibilities in an organization. They may own and/or operate small firms or work for larger firms that sell goods and services or manufacture products. Their duties may include marketing, managing finances, supervising employees, purchasing goods and services, and sales.

Employment Opportunities:

Employment in this field is expected to remain steady. Prospects are very good for those who want to own and manage a business, especially if they have determination, talent, and a unique service or product.

Potential Earnings:

A typical entry-level wage could be \$31,200 per year, depending on experience; maximum may go to \$56,800 or more per year.

LEARNING OUTCOMES: BUSINESS MANAGEMENT: ASSOCIATE OF APPLIED SCIENCE DEGREE

Role Descriptions: The Business Management program is designed for persons currently working in or intending to work in the following kinds of roles: Small business owner/manager; assistant manager; office administrator.

Intended Learning Outcomes: Learning experiences in this program are designed to assist the student in realizing the following outcomes:

1. Work within the ethical, legal, and regulatory parameters of the industry.
2. Calculate, compile, and analyze financial records to make prudent business decisions.
3. Communicate effectively with diverse individuals as clients, customers, and co-workers both orally and in writing integrating appropriate technologies.
4. Use critical thinking skills to solve business problems.
5. Exhibit work behaviors that maximize opportunity for continued employment, increased responsibilities, and business success.

Career Pathway Accounting for Business Management

For More Information, See Page 84.

Course Number	Course Title	Credits
BA 211	Principles of Accounting I *	4
BA 212	Principles of Accounting II +	4
BA 213	Principles of Accounting III +	4
BA 177	Payroll & Business Tax Accounting *	3
Total Credits:		15

* Minimum grade of "C" or higher.

+ "C" grade or better required in preceding course to take this level.

YEAR ONE Business Management AAS Degree

FALL	Introduction to Business** BA 101, 4 Cr.	Accounting Procedures I+** BA 131, 3 Cr.	Human Relations in Business** BA 285, 3 Cr.	Intro. to Integrated Software** MIC 145, 3 Cr.	Spreadsheets** CSL 107, 3 Cr.	
	WINTER	Principles of Marketing** BA 223, 3 Cr.	Accounting Procedures II+** BA 132, 3 Cr.	Math for Applied Sciences* MTH 65, 4 Cr. <i>or</i> Intermediate Algebra* MTH 95, 4 Cr.	English Composition** WR 121, 4 Cr.	
		SPRING	Personal Finance** BA 218, 2 Cr.	Automated Accounting** BA 228, 3 Cr.	Intro to Computer Info Systems** CS 131, 4 Cr.	Intro to** Business Law BA 226, 4 Cr.

YEAR TWO Business Management AAS Degree

FALL	Management Fundamentals** BA 206, 3 Cr.	Payroll & Business Tax Accounting** BA 177, 3 Cr.	Business** Communication BA 214, 4 Cr.	Fundamentals of Public Speaking <i>or</i> Discussion SP 111, 3 Cr. SP 219, 3 Cr.	Electives 3 Cr.
	WINTER	Human Resource Management** BA 224, 3 Cr.	Small Business Management** BA 250, 3 Cr.	Principles of Economics <i>or</i> Economics EC 201, 4 Cr. EC 202, 4 Cr.	Electives 6 Cr.
		SPRING	Coop. Work Experience + BA 280, 2 Cr.	Coop. Work Ex. Seminar ++ BA 281, 1 Cr.	Bus. Management Directed Project** BA 295M, 4 Cr.
<i>or</i> 3 Cr. Elective (with Advisor Approval)					

Legend Notes:

- * Minimum grade "C" or higher. Math courses numbered higher than MTH 95 may be substituted.
- ** Minimum grade "C" or higher for successful completion of program.
- + Grade "C" or better required in BA 131 as a prerequisite to BA 132.
- ++ The CWE Seminar requirement for any Business degree can be met by completing one of the following courses: BA 281 or CS 281.

Note: To successfully be awarded the Business Management AAS degree, a student must provide proof that the attainment of a 10-key typing proficiency of 120 KPM with 100% accuracy has been completed during the course of the degree. This documentation must be provided along with the graduation petition for the Business Management AAS degree.

CAREER PATHWAY CERTIFICATES *OR* ONE-YEAR CERTIFICATE PROGRAM

Job Description:

Business professional clerks perform a variety of clerical duties essential to office operations. Most clerks type, file, and operate calculating and copying machines. They may send, open, route, or answer mail; answer telephones; and greet visitors. They may also compile records and reports, tabulate and post data, and compute wages, taxes, and commissions or payments. Operating word processing equipment efficiently is essential.

Employment Opportunities:

Demand is greatest for those who have good clerical skills and who understand the organization, activities, and terminology of the business. Knowledge of bookkeeping or processing of payroll records may also increase chances for a job.

Potential Earnings:

A typical entry-level wage for Oregon Statewide is \$15.00 with an average wage of \$20.98 (annual average of \$43,640).

Career Pathway Business Professional

For More Information, See Page 86.

Course		
Number	Course Title	Credits
CS 131	Intro to Computer Info Systems*	4
CSL 107	Spreadsheets*	3
MIC 145	Intro to Integrated Software*	3
MTH 65	Math for Applied Sciences* <i>or</i>	4
MTH 95	Intermediate Algebra*	(4)
PHL 102	Ethics	3
Total Credits:		17

* Minimum grade of "C" or higher.

Career Pathway Entrepreneurship

For More Information, See Page 87.

Course		
Number	Course Title	Credits
BA 101	Introduction to Business*	4
BA 206	Management Fundamentals *	3
BA 223	Principles of Marketing*	3
CSL 107	Spreadsheets*	3
BA 228	Automated Accounting*	3
BA 250	Small Business Management *	3
BA 177	Payroll and Business Tax *	3
Total Credits:		22

* Minimum grade of "C" or higher.

Career Pathway Communication in Business

For More Information, See Page 85.

Course		
Number	Course Title	Credits
PHL 102	Ethics	3
WR 121	English Composition *	4
BA 214	Business Communication *	3
BA 285	Human Relations in Business*	3
Total Credits:		13

* Minimum grade of "C" or higher.

LEARNING OUTCOMES: BUSINESS PROFESSIONAL:

ONE-YEAR CERTIFICATE

Role Descriptions: The Business Professional Certificate Program is designed for the person intending to work in an entry-level office position.

Intended Learning Outcomes: Learning experiences in this program are designed to assist the student in realizing the following outcomes:

1. Understand how to work within the ethical, legal, and regulatory parameters of the industry.
2. Communicate effectively with diverse individuals as clients, customers, and co-workers both orally and in writing integrating appropriate technologies.

YEAR ONE **Business Professional One-Year Certificate**

FALL	Introduction to Business** BA 101, 4 Cr.	Accounting Procedures I+** BA 131, 3 Cr.	Human Relations in Business** BA 285, 3 Cr.	Intro. to Integrated Software** MIC 145, 3 Cr.	Spreadsheets** CSL 107, 3 Cr.	
	WINTER	Principles of Marketing** BA 223, 3 Cr.	Accounting Procedures II+** BA 132, 3 Cr.	Math for Applied Sciences* MTH 65, 4 Cr. <i>or</i> Intermediate Algebra* MTH 95, 4 Cr.	English Composition** WR 121, 4 Cr.	
		SPRING	Personal Finance** BA 218, 2 Cr.	Automated Accounting** BA 228, 3 Cr.	Intro to Computer Info Systems** CS 131, 4 Cr.	Intro to Business Law** BA 226, 4 Cr.

Legend Notes:

- * Minimum grade "C", "P" or higher. Math courses numbered higher than MTH 95 may be substituted.
- ** Minimum grade "C" or higher for successful completion of program.
- + Grade "C" or better required in BA 131 as a prerequisite to BA 132.

**(CADD TECHNICIAN)
ONE-YEAR CERTIFICATE PROGRAM**

Job Description:

This competency based program will provide an individual with the prerequisite knowledge, skills, work habits and attitude required to perform both routine and creative tasks. These entry level CADD Technician tasks involve computer skills, design activities and limited theoretical knowledge and are performed under supervision. Course curriculum follows national specifications for qualification and certification of an entry level CADD Technician. This program is one step on the ladder of skills the trainees may achieve in their quest for a rewarding career. People who are creative and enjoy mind-hand challenges will find opportunities for advancement and experience a great sense of pride in workmanship as they ply their trade.

Employment Opportunities:

The job outlook for CADD Technicians is good regionally, nationally and globally. Entry level CADD Technicians are employed in a wide range of industries that use related tasks during daily operations.

Potential Earnings:

The pay rate for drafters in Oregon averages about \$24/hour.

**LEARNING OUTCOMES: COMPUTER AIDED
DESIGN AND DRAFTING: ONE-YEAR
CERTIFICATE**

Role Descriptions: The Computer Aided Design and Drafting Program is designed for persons intending to work as drafters, graphic designers, or CAD technicians.

Intended Learning Outcomes: Learning experiences in this program are designed to assist the student in realizing the following outcomes:

1. Use CAD and graphic systems to produce professional design documents.
2. Analyze and solve conceptual problems with appropriate levels of design detail.
3. Use effective verbal, graphic, and written skills to communicate design concepts to clients and colleagues.
4. Work in a collaborative design environment.

YEAR ONE CADD Technician One-Year Certificate

FALL	Technical Print Interpretation DRF 139, 3 Cr. <i>or</i> Print Reading for Construction BLD 140, 3 Cr.	Computer** Aided Design I DRF 213, 4 Cr.	Basic Design ART 115, 3 Cr.	English Composition ** WR 121, 4 Cr.	Technical Electives 3 Cr.
WINTER	Computer Aided Design II ** DRF 214, 4 Cr.	Math for Applied Science* MTH 65, 4 Cr. <i>or</i> Intermediate Algebra* MTH 95, 4 Cr.	Psychology of Human Relations PSY 101, 3 Cr. <i>or</i> Small Group Discussion SP 219, 3 Cr. <i>or</i> Human Relations in Business BA 285, 3 Cr.	Computer Graphics I ART 225, 3 Cr.	Technical Electives 3 Cr.
SPRING	Computer Aided Design III ** DRF 215, 4 Cr.	CADD Directed Project ** DRF 295, 4 Cr.	Cooperative Work Experience - CADD DRF 280, 2 Cr.	CWE Seminar DRF 281, 1 Cr.	Computer Graphics II ART 226, 3 Cr.

Technical electives

6 Credits chosen from the following list:

ARCH 215	History of Pacific NW Architecture	3
ARCH 216	Northwest Architects	3
ART 116	Basic Design II	3
ART 131	Introduction to Drawing	3
CS 125H	Beginning Website Design/Development.....	3
CS 131	Intro to Computer Information Systems <i>or</i>	4
MIC 145	Intro to Integrated Software	(3)
CSL 107	Spreadsheets	3
DRF 150	Construction Drawing	3
MIC 207	Presentation Software	2
WR 227	Technical Writing	4

Legend Notes:

* Minimum grade "C", "P" or higher. Math courses numbered higher than MTH 95 may be substituted

** Minimum grade "C".

CRIMINAL JUSTICE ASSOCIATE OF APPLIED SCIENCE DEGREE

Job Description:

The field of criminal justice includes jobs such as law enforcement officers, probation and parole officers, correctional officers, and juvenile workers. Law enforcement officers (police officers) are responsible for enforcing laws and maintaining order. Their primary duties are to protect life and property, prevent crimes, and arrest and help prosecute violators. They also prepare written reports of their activities and testify in court.

Parole and probation officers help legal offenders adjust to society. They provide support and guidance to help people identify and solve their problems. Parole officers work with persons who have been released from a correctional institution and spend most of their time counseling offenders who have returned to the community. Probation officers work with juveniles and adults who have been released by the court without sentence or imprisonment. They perform pre-sentence investigations, write reports, give court testimony, and help their clients work toward long range goals.

Correctional officers and juvenile detention workers supervise and control residents in prisons, jails, detention centers, and halfway houses to maintain security and enforce discipline. They oversee the daily activities of inmates, give out work assignments, and help the inmates with specific tasks. They inspect the facilities to ensure that conditions are sanitary and secure. They may supervise inmates in transit and escort them to and from cells, courts, and other facilities. They settle disputes among inmates, prevent escapes, and search and count inmates. Juvenile workers handle case loads similar to parole and probation officers, but work with offenders under 18 years of age.

Employment Opportunities:

Law enforcement officers: Employment is expected to grow as fast as the average for all occupations in Oregon. **Parole and probation officers:** A bachelor's degree is a minimum requirement for entering this field. Although there is currently a surplus of applicants, the recent passage of a ballot measure may eventually lead to the hiring of many more parole officers. **Correctional officers:** Employment is expected to grow as fast as the average for all occupations in Oregon. **Juvenile Workers:** These workers may also need to complete a four-year college degree for some types of employment. Employment opportunities do exist for persons with two years of college training.

Potential Earnings:

The average entry level wage for law enforcement officers is \$2,800 per month and the average maximum wage is \$3,800 per month; the average wage for correctional officers is about \$2,800 per month. The average wage for parole and probation officers and juvenile workers is \$3,500 per month.

LEARNING OUTCOMES: CRIMINAL JUSTICE: ASSOCIATE OF APPLIED SCIENCE DEGREE

Role Description: The Criminal Justice Program is designed to prepare a person for entry-level positions in the criminal justice field.

Intended Learning Outcomes: Learning experiences in this program are designed to assist the student in realizing the following outcomes:

1. Communicate effectively in the criminal justice culture: verbally, non-verbally, and in writing.
2. Work equally well on independent assignments and team efforts within the criminal justice system.
3. Locate and interpret current case law and statutes pertaining to specific criminal activity; take action that is supported by current law and statutes.
4. Work effectively with persons of different cultural heritage, gender, age and/or mental abilities.

YEAR ONE

FALL	Intro to Criminal Justice CJ111, 3 Cr.	Intro to Corrections CJ130, 3 Cr.	English Composition -Exposition** WR 121, 4 Cr.	Social Science/ Humanities *** 3 Cr.	Electives 3 Cr.		
	WINTER	Intro to Law Enforcement CJ 110, 3 Cr.	English Composition -Argument* WR 122, 4 Cr. <i>or</i> Technical Report Writing WR 227, 4 Cr.		Social Science/ Humanities *** 3 Cr.	Technical Electives 3 Cr.	Electives 3 Cr.
		SPRING	Intro to the Judicial Process CJ 120, 3 Cr.	Concepts of Criminal Law CJ 121, 3 Cr.	Fundamentals of Public Speaking SP 111, 3 Cr.	Social Science/ Humanities *** 3 Cr.	Intro to Computer Info Systems CS 131, 4 Cr. <i>or</i> Fundamentals of Computing CS 101, 1 Cr.

YEAR TWO Criminal Justice AAS Degree

FALL	Alcohol and Other Dangerous Drugs CJ 243, 3 Cr.	Crisis Intervention CJ 203, 3 Cr.	Persuasive Speech SP112, 3 Cr. <i>or</i> Small Group Discussion SP 219, 3 Cr.		Report Writing in Criminal Justice CJ 212, 3 Cr.	Social Science/ Humanities *** 3 Cr.	
	WINTER	Criminal Justice Workshop CJ 107, 3 Cr.	Criminal Investigation CJ 210, 3 Cr.	Coop. Work Experience - C. J. CJ 280, 2 Cr.	CWE Seminar - Criminal Justice CJ 281, 1 Cr.	Math for Applied Science**** MTH 65, 4 Cr. <i>or</i> Intermediate Algebra **** MTH 95, 4 Cr.	Technical Electives ** 3 Cr.
		SPRING	Interview & Interrogation Techniques CJ 218, 3 Cr.	Coop. Work Experience - C. J. CJ 280, 3 Cr.	Technical Electives 6 Cr.	Electives 3 Cr.	

Technical Electives

Students must complete twelve credits from the following list of courses. Courses used to satisfy program requirements may not be used as technical electives.

Course Number	Course Title	Credits	Course Number	Course Title	Credits
CJ 114	Gender, Race, Class & Crime	3	HS 102	Drug Use, Misuse and Addiction	3
CJ 138	Understanding Terrorism	3	HS 154	Community Resources	3
CJ 205	Female Offenders	3	HS 201	Family Alcoholism/Addiction	3
CJ 215	Issues in CJ Supervision and Admin.	3	PHL 102	Ethics	3
CJ 219	Introduction to Community Policing	3	PSY 101	Psychology of Human Relations	3
CJ 225	Corrections Law	3	PSY 219	Intro to Abnormal Psychology	3
CJ 230	Intro. to Juvenile Corrections	3	SOC 221	Juvenile Delinquency	3
CJ 231	Juvenile Law	3	SPAN 101,		
CJ 232	Intro. to Corrections Casework <i>or</i>	3	102,103	First Year Spanish <i>or</i>	4 ea
HS 155	Interviewing for Social Services	(3)	SPAN 111,		
CJ 280	Cooperative Work Experience - C. J.	3	112,113	Conversational Spanish	(3 ea)
GS 111	Introduction to Forensic Science	3			
HS 101	Alcohol Use, Misuse and Addiction	3			

Legend Notes:

Note: All Criminal Justice courses must be completed with a C grade or higher.

* Minimum grade "C", "P" or higher.

** Minimum grade "C" or higher.

*** Selected from Arts and Letters and Social Science lists, page 24-25; psychology and/or sociology courses strongly recommended.

**** Minimum grade C or higher. Math courses numbered higher than MTH 95 may be substituted.

CAREER PATHWAY CERTIFICATE *OR* ASSOCIATE OF APPLIED SCIENCE DEGREE

Job Description:

The Fire Science Program offers training and education for those wanting a fire science career, and for career or volunteer firefighters seeking advancement. Some courses offered by Clatsop Community College allow students the option of completing lower division fire science requirements by independent study.

LEARNING OUTCOMES:

FIRE SCIENCE: ASSOCIATE OF SCIENCE DEGREE

Role Descriptions: The Fire Science program is designed for persons intending to work (or currently working) as a community fire fighter assuming leadership responsibilities and roles.

Intended Learning Outcomes: Learning experiences in this program are designed to assist the student in realizing the following outcomes:

1. Perform the rescue and fire fighting functions in an emergency situation.
2. Maintain a sense of composure in an emergency situation.
3. Follow all safety guidelines and procedures to fully protect self and others in different conditions and work-related tasks.
4. Manage all aspects of successful day-to-day operations:
 - budget
 - equipment
 - records
 - human resources
5. Inspect premises and provide advice on compliance with safety codes and ordinances.
6. Plan, organize, and present educational activities that promote community awareness and safety.
7. Work effectively as a member of a fire fighting team and lead in specific department-related activities and operations.
8. Monitor one’s own physical and mental health as it relates to job requirements, and engage in appropriate self-care actions.

Firefighters protect communities and forests against loss of life, injury, or destruction of property by fire, and respond to medical, rescue, hazardous materials, and other emergencies. Firefighters work as a team with each person assigned special tasks. They operate and maintain fire stations, equipment, and apparatus. They may inspect buildings for fire hazards and investigate fire causes. They spend time educating the public about fire safety, speaking in schools and to citizen groups. Coursework is accredited by the Oregon Fire Standards and Accreditation Board.

Students and entry level firefighters may be required to satisfactorily complete specific agility and endurance requirements, including climbing ladders while carrying tools; wearing personal protective equipment and self-contained breathing apparatus; entering hazardous areas; handling hoses and specified equipment, as well as demonstrating physical strength and overall flexibility.

Employment Opportunities:

The application process for fire department jobs is very competitive. Applicants who complete a Fire Science degree have a greater chance of gaining employment. In Region 1 (Clatsop, Columbia and Tillamook Counties) the 10-year growth rate for Firefighters is 5.6%, which is below the state growth rate of 9.2% and the national average of 9% over the 2010-2020 period. Region 1 projected outlook is for 48 new and replacement jobs annually.

Potential Earnings:

State employment data shows that the average hourly wage for Oregon Statewide is \$25.12 (annual average of \$52,248). National median pay is \$45,250 per year. In rural areas firefighting maybe a volunteer position.

YEAR ONE

**Fire Science
Pathway Certificate**

*For More Information,
See Page 90.*

FALL	EMT Part 1 EMT 151, 5 Cr.	Principles of Emergency Services FRP 101, 4 Cr.	Firefighter Skills I FRP 110, 1 Cr.	Firefighter Skills II FRP 111, 1 Cr.
	Introduction to Wildland Firefighting FRP 190, 4 Cr.	EMT Part 2 EMT 152, 5 Cr.	Firefighter Skills III FRP 112, 1 Cr.	Firefighter Skills IV FRP 113, 1 Cr.
WINTER				

For Emergency Medical Services and EMT Career Pathway information, See page 88-89.

YEAR ONE

FALL WINTER SPRING	EMT - Part 1 EMT 151, 5 Cr.	Firefighter Law FRP 156, 1 Cr.	Princ. Fire/Emergency Svcs. Safety/Survey FRP 157, 3 Cr.	Fire Codes & Ordinances FRP 172, 3 Cr.	Fire Behavior & Combustion FRP 121, 4 Cr.	Firefighter Skills I FRP 110, 1 Cr.
	EMT - Part 2 EMT 152, 5 Cr.	Fire Protection Hydraulics & Water Supply FRP 158, 3 Cr.	Health & Fitness for Life HPE 295, 3 Cr.	English Composition ** WR 121, 4 Cr.	Firefighter Skills II FRP 111, 1 Cr.	Technical Electives 4 Cr.
	Hazmat Ops FRP 164, 3 Cr.	Building Construction for Fire Protection FRP 166, 3 Cr.	Intermediate Algebra * MTH 95, 4 Cr.	Fundamentals of Public Speaking SP 111, 3 Cr.	Firefighter Skills III FRP 112, 1 Cr.	Electives 2 Cr.

YEAR TWO Fire Science AAS Degree

FALL WINTER SPRING	Principles of Emergency Services FRP 101, 4 Cr.	Psychology of Human Relations PSY 101, 3 Cr.	Firefighter Skills IV FRP 113, 1 Cr.	Electives 3 Cr.			
	Intro to Fire & Emergency Service Admin. FRP 169, 3 Cr.	Fire Protection Systems FRP 171, 3 Cr.	Social Science/Humanities *** 3 Cr.	Firefighter Skills V FRP 114, 1 Cr.			
	Emergency Service Rescue FRP 168, 3 Cr.	Firefighting Strategy & Tactics FRP 170, 3 Cr.	Fire Prevention FRP 181, 3 Cr.	Coop. Work Exp. Fire Science FRP 280, 2 Cr.	CWE Seminar Fire Science FRP 281, 1 Cr.	Technical Writing WR 227, 4 Cr.	Firefighter Skills VI FRP 115, 1 Cr.

Technical Electives

Students must complete eight credits from the following list of courses. Courses which are used to satisfy program requirements may not be used as technical electives. Some listed courses may not be offered every year.

Course Number	Course Title	Credits
BI 231,232,233	Human Anatomy and Physiology I, II, III	4 ea
CPL 120	Credit for Prior Learning	3
EMT 165, 166	Emergency Medical Technician Intermediate-Part 1,2...4 ea	4 ea
EMT 154, 155	Advanced EMT Part 1, 2.....	5 ea
FRP 155	Instructional Methodology	2
FRP 174	Fire Investigation I.....	3
FRP 190	Intro. to Wildland Firefighting	4
FRP 280	Cooperative Work Experience - Fire Science	3
EMT 140	Medical Terminology	5
EMT 176	Emergency Response: Transportation.....	2
EMT 177	Emergency Communication & Documentation	2

Legend Notes:

Notes: The FRP courses will be offered on a rotating basis every two years. All FRP courses require instructor approval for registration.

All FRP courses require instructor approval for registration.

* Minimum grade "C", "P" or higher. Math courses numbered higher than MTH 95 may be substituted.

** Minimum grade "C" or higher.

*** Selected from Arts and Letters and Social Science lists, pages 24 and 25.

HISTORIC PRESERVATION & RESTORATION

CAREER PATHWAY CERTIFICATE OR ONE-YEAR CERTIFICATE OR ASSOCIATE OF APPLIED SCIENCE DEGREE

This program prepares individuals for work in the building trades with an emphasis on the preservation and restoration of historic and vintage residential and commercial buildings. The program offers both historic preservation theory and practical hands-on construction techniques. Students gain the necessary knowledge, skills and work habits to successfully plan, then renovate and/or restore structures in historically accurate ways utilizing both traditional and modern materials and techniques. Graduates will be able to work as remodelers, carpenters, subcontractors and general contractors.

Employment Opportunities

The job outlook for Remodeling and Restoration, Historic Preservation, and Construction is good locally, regionally and nationally. Job opportunities are available with contractors, remodelers, local historical societies, and city and county governments. Demand is greatest for those who have a well-rounded understanding of the organization, terminology, customer service, and activities of the business.

Potential Earnings

The pay rate for carpenters in Oregon averages about \$22/hour. Historic restoration expertise often commands premium remuneration.

LEARNING OUTCOMES: CERTIFICATE: Role Descriptions: The Historic Preservation and Restoration Certificate program is designed for persons currently working in, or intending to work in, the construction trades with an emphasis on the preservation and restoration of historic and vintage buildings.

Intended Learning Outcomes: Learning experiences in this program are designed to assist the student in realizing the following outcomes:

1. Communicate clearly and effectively through speech, writing and drawing.
2. Practice healthy work habits; safely use tools and materials.
3. Work in a collaborative environment.
4. Demonstrate knowledge of regional architectural history.
5. Use appropriate materials and methods for renovation and new construction.

LEARNING OUTCOMES: AAS DEGREE: Role Descriptions: The Historic Preservation and Restoration Degree program is designed for persons currently working in, or intending to work in, the construction trades with an emphasis on the preservation and restoration of historic and vintage buildings.

Intended Learning Outcomes: Learning experiences in this program are designed to assist the student in realizing the following outcomes:

1. Communicate clearly and effectively through speech, writing and drawing.
2. Practice healthy work habits; safely use tools and materials.
3. Work in a collaborative environment.
4. Demonstrate knowledge of regional architectural history.
5. Use appropriate materials and methods for renovation and new construction.
6. Incorporate historic preservation and restoration theory and methods into construction projects.

Career Pathway Historic Preservation and Restoration Certificate

Course Number	Course Title	Credits
BLD 101	Introduction to Historic Preservation or *	1
BLD 210	Historic Preservation I *	(3)
BLD 110	Construction Safety for Historic Preservation	1
BLD 111	Tool Safety for Historic Preservations	1
BLD 140	Printreading for Construction	3
DRF 213	Computer Aided Design I	4
	Historic Preservation Workshops *	4-6
	Total Credits:	16

* Must complete a total of 16 credits for successful completion of certificate. If taking BLD 101, then complete a total of six of the one-credit workshops. If taking BLD 210, then complete a total of four of the one-credit workshops. ¹

For more information see page 91

YEAR ONE One-Year Certificate • AAS Degree

FALL	Introduction to Historic Preservation ** BLD 101, 2 Cr.	Construction Safety for Historic Preservation ** BLD 110, 1 Cr.	Tool Safety for Historic Preservation** BLD 111, 1 Cr.	Printreading for Construction ** BLD 140, 3 Cr.	Construction Math ** BLD 104, 2 Cr.	Workshops ¹ 4 Cr.	Computer Aided Design DRF 213, 4 Cr.
	Residential Materials & Methods ** BLD 103, 3 Cr.	Construction Drawing DRF 150, 3 Cr.	Workshops ¹ 5 Cr.	Math for Applied Science*** MTH 65, 4 Cr. <i>or</i> Intermediate Algebra*** MTH 95, 4 Cr.			
	English Composition ** WR 121, 4 Cr.	Psych. of Human Relations PSY 101, 3 Cr. <i>or</i> Small Group Discussion SP 219, 3 Cr. <i>or</i> Human Relations in Business BA 285, 3 Cr.	Cooperative Work Experience BLD 280, 2 Cr.	CWE Seminar BLD 281, 1 Cr.	History of Pacific Northwest Architecture ARCH 215, 3 Cr. <i>or</i> Northwest Architects ARCH 216, 3 Cr.	Workshops ¹ 4 Cr.	

YEAR TWO AAS Degree

FALL	Historic Preservation I ** BLD 210, 3 Cr.	Project Management ** BLD 207, 3 Cr.	Workshops ¹ 5 Cr.	Electives **** # 3 Cr.
	Historic Preservation II ** BLD 211, 3 Cr.	Green Building ** BLD 206, 3 Cr.	Workshops ¹ 5 Cr.	Technical Writing ** WR 227, 4 Cr.
	Building Codes I BLD 151 ** 3 Cr.	Historic Preservation & Restoration Project BLD 295, 4 Cr. **	Workshops ¹ 3 Cr.	Electives **** # 6 Cr.

Workshops:

¹ For the Certificate Program, 13 credits must be taken from any of the workshops listed below. For the Associate of Applied Science Program, another 13 credits from the following lists must also be successfully completed, for a total of 26 credits.

Construction Skills: Historic Pres. & Rest.
BLD 120-BLD 129 Techniques:
BLD 220-BLD 229

Materials: Historic Materials:
BLD 131-BLD 139 BLD 231-BLD 239

Topics of the above workshops will include:
Materials Stairs
Foundation Systems Doors and Windows
Floor Systems Finish Work
Wall Systems Moisture and Thermal Protection

Legend Notes:

- ** Minimum grade "C".
- *** Minimum grade "C", "P" or higher. Math courses numbered higher than MTH 95 may be substituted.
- **** Total of nine (9) credits of electives chosen from courses numbered 100 or higher; however, suggested electives are listed below.

ARCH 215	History PNW Architecture.....	3
ARCH 216	Northwest Architects.....	3
ART 225	Computer Graphics I.....	3
ART 226	Computer Graphics II.....	3
ART 131	Introduction to Drawing.....	3
BA 101	Introduction to Business.....	4
DRF 213	Computer Aided Design I.....	4
DRF 214	Computer Aided Design II.....	4
DRF 215	Computer Aided Design III.....	4
PHL 102	Ethics.....	3
- # To specialize in the area of Sustainability in Historic Preservation and Restoration, the following courses are suggested as electives:

SET 102	Introduction to Sustainability.....	3
SET 158	Building Energy Analysis.....	2

CAREER PATHWAY CERTIFICATE *OR* ONE-YEAR CERTIFICATE

ONE-YEAR CERTIFICATE: Job Description:

Individuals completing this competency-based training program will have the requisite knowledge, skills, work habits and attitude to perform work on a vessel in an entry level position. A seaman employed in the maritime industry works as a deckhand on commercial vessels and is responsible for keeping the vessel and its equipment in working order. The individual may stand watches—conducting the vessel from one point to another while adhering to the principles of navigation and the rules of the road. Upon completion of the One-Year Certificate program, students will have the skills and knowledge to pass the United States Coast Guard Able Seaman exam and, those meeting USCG requirements, may complete the program with a Merchant Mariner’s Document.

Employment Opportunities:

The job outlook for crewmembers in the maritime industry is excellent regionally, nationally, and globally. Entry level deckhands work on a wide range of vessels performing a variety of tasks. Contracts often require crewmembers to work twelve hour days for weeks or months at a time while away from home.

Potential Earnings:

Wages for sailors and marine oilers average \$17.00 per hour.

CAREER PATHWAY CERTIFICATE: JOB DESCRIPTION:

Individuals completing this competency-based training program will have the requisite knowledge, skills, work habits and attitude to perform work as a deckhand on commercial vessels and with experience may be responsible for keeping the vessel and its equipment in working order. The individual may stand watch—conducting the vessel from one point to another while adhering to the principles of navigation and the rules of the road.

Employment Opportunities:

The job outlook is excellent, nationally and is projected to grow.

Potential Earnings:

The entry level rate of pay for sailors and marine oilers, varies with individual companies, in Oregon the average is \$17.00 per hour. Employee may be provided with meals and living quarters while on-board the vessel.

LEARNING OUTCOMES: SEAMANSHIP: ONE-YEAR CERTIFICATE

Role Descriptions: The Seamanship Certificate is designed for persons intending to work in an entry level position on maritime vessels.

Intended Learning Outcomes: Learning experiences in the certificate program are designed to assist the student in realizing the following outcomes:

1. Perform the duties of a “lookout” on a vessel.
2. Perform the duties of a “helmsman” on a vessel under the officer of the watch.
3. Exhibit safe work habits in daily and emergency situations on the deck of a vessel.
4. Operate and maintain deck equipment on a vessel both in port and at sea.

YEAR ONE Seamanship One-Year Certificate

FALL	STCW Basic Training MAS 135, 3 Cr.	Intro to Watch Keeping MAS 155 2 Cr.	Practical Navigation MAS 165 2 Cr.	Charts, Aids to Nav & Mag. Compasses *** MAS 168, 3 Cr.	Rules of the Road *** MAS 175 3 Cr.	Seamanship I MAS 181 2 Cr.	Technical Electives 5 Cr.
	Seamanship II MAS 182, 2 Cr.	Math for Applied Science* MTH 65, 4 Cr.	Intermediate Algebra * MTH 95, 4 Cr.	Technical Electives 6 Cr.			
	Seamanship III MAS 183, 2 Cr.	Psychology of Human Relations PSY 101, 3 Cr.	English Composition** WR 121, 4 Cr.	Technical Electives 6 Cr.			

Legend Notes:

- * Minimum grade "C", "P" or higher. Math courses numbered higher than MTH 95 may be substituted.
- ** Minimum grade "C" or higher.
- *** Course is offered in an individualized format.
- + Four (4) credits of MAS 191, Deckhand Practicum, may be applied toward the One-Year Maritime Science certificate.

TECHNICAL ELECTIVES: Students must complete 17 credits from the following list of courses.

Course Number	Course Title	Credits
MAS 100	Maritime Occupations	2
MAS 121	Able Seaman Training	4
MAS 130	Radar Observer: Original Endorsement, Unlimited ..	2
MAS 135	STCW Safety Training	3
	(if not already taken as a degree requirement)	
MAS 137	Radar Navigation	2
MAS 138	STCW Proficiency in Survival Craft	2
MAS 139	STCW Basic Firefighting	1
MAS 144	STCW Advanced Firefighting	2
MAS 147	Rules and Regulations	3
MAS 148	Vessel Stability	3
MAS 164	Introduction to Navigation***	3
MAS 170	Marine Weather, Tides, Currents, and Waves***	3
MAS 171	Coastal Navigation & Voyage Planning	3
MAS 180	Marine Electronics***	3
MAS 184	Galley Cooking	2
MAS 189	Applied Rigging Technology	2
MAS 190	Vessel Practicum	1-3
MAS 191	Deckhand Practicum +	1-4
MAS 192	Intro to Deck Machinery & Safety	2
MAS 193	Intro to Engine Room Maintenance & Safety	2
MAS 201	Tank Ship Dangerous Liquids (Tankerman PIC)	4
MAS 208	Ratings Forming Part of a Navigational Watch	2
IT 140	Industrial Safety	1
WLD	Welding (any class)	1-3

Career Pathway Seamanship Certificate

The **Career Pathway Seamanship Program** prepares students for entry level employment as a seaman in the maritime industry. Upon completion of this program, students will have the skills and knowledge to continue studies to complete the Seamanship One-year Certificate and/or Vessel Operations Associate of Applied Science Degree. This program will also assist students in obtaining the basic skills and knowledge to continue their studies towards the United States Coast Guard Able Seaman document exam. Those meeting USCG requirements and having the commensurate deck service time, may qualify for a U.S. Merchant Mariner's Document.

Course #	Course Title	Credits
MAS 135	STCW Basic Training*	3
MAS 155	Introduction to Watch Keeping*	2
MAS 164	Introduction to Navigation*, **	3
MAS 168	Charts, Aids to Nav. & Mag. Compasses *, **	3
MAS 181	Seamanship I*	2
MAS 182	Seamanship II*	2
MAS 183	Seamanship III*	2
Total Credits:		17

- * Classes are available Fall, Winter and Spring terms. Some classes are also available Summer term.
- *** Course is offered in an individualized format.

For more information see page 94

ASSOCIATE OF APPLIED SCIENCE DEGREE

Job Description:

This competency-based program will provide an individual with the requisite knowledge, skills, work habits and attitude to perform work on a vessel as an entry level deckhand. Job tasks include handling lines, performing routine vessel and gear maintenance, participating in drills, performing galley duties, standing watches, and becoming part of a working crew in a close quarters environment. Course curriculum follows industry needs as presented by the Maritime Science Department advisory committee. Classes are taught in a practical atmosphere and employ extensive use of a training vessel. This program will be of interest to people who desire a professional career path with advancement opportunities that are in a non-traditional setting. Students completing this program will be qualified to work as crewmembers on research vessels, merchant ships, tugs, charter and passenger vessels, and commercial fishing vessels. Professional credentialing is available to students who meet US Coast Guard requirements.

Employment Opportunities:

The job outlook for crewmembers in the maritime industry is good regionally, nationally, and globally. Entry level deckhands work on a wide range of vessels performing a variety of tasks. Contracts often require crewmember to work twelve hour days for weeks or months at a time while away from home.

Potential Earning:

Wages for sailors and marine oilers average \$17.00 per hour. Captains and mates may earn 3 to 4 times as much, depending upon experience.

LEARNING OUTCOMES: VESSEL OPERATIONS: ASSOCIATE OF APPLIED SCIENCE DEGREE

Role Description: The Vessel Operations degree is designed for the person who intends to be employed in higher level positions within the maritime industry.

Intended Learning Outcomes: Learning experiences in the degree program are designed to assist the student in realizing the following outcomes:

1. Perform the duties of a “lookout” on a vessel.
2. Perform the duties of a “helmsman” on a vessel under the officer of the watch.
3. Exhibit safe work habits in daily and emergency situations on the deck of a vessel.
4. Operate and maintain deck equipment on a vessel both in port and at sea.
5. Plan and organize voyage and modify voyage plan enroute to reach destination safely.
6. Recognize changes to the handling and stability characteristics of a vessel; make calculations necessary to solve handling, loading, and stability safety issues.
7. Knowledge of routine navigational procedures and deck operations. Preparation to become a functioning crew member when reporting on board a vessel.
8. Knowledge of the items required for inspected vessel compliance with Coast Guard regulations. Knowledge in the use of CFRs to determine vessel requirements. Prepare vessels for Coast Guard examination.
9. Principles of ship handling and the ability to safely operate vessels in varied environments.

YEAR ONE

Course #	Course Title	Credits
HM 120	Hazardous Waste Operations and Emergency Response (<i>or higher</i>).....	1
MTH 65	Math for Applied Sciences* <i>or</i>	4
MTH 95	Intermediate Algebra* (<i>or a MTH course higher than MTH 95</i>).....	(4)
WR 121	English Composition* (<i>or a Writing course higher than WR 121</i>)	4
IT 140	Industrial Safety +	1
CS 101	Fundamentals of Computing <i>or</i>	1
CS/MIC	Any CS or MIC	1-3
GS 104	Physical Science - Physics <i>or</i>	4
GS 106	Physical Science - Geology <i>or</i>	4
GS 109	Physical Science - Meteorology	4
	(<i>or any Physical Science course, 4 credits or more</i>)	
MAS 181	Seamanship I	2
MAS 182	Seamanship II	2
MAS 183	Seamanship III.....	2
MAS 184	Galley Cooking.....	2
MAS 135	STCW Basic Training.....	(3)
MAS 100	Maritime Occupations	2
MAS 164	Introduction to Navigation	3
MAS 165	Practical Navigation	2
MAS 168	Charts, Aids to Navigation, & Marine Compasses.....	3
MAS 175	Rules of the Road	3
MAS 190	Vessel Practicum.....	S 1
MAS 192	Intro to Deck Machinery & Safety	2
MAS 193	Intro to Engine Room Maintenance & Safety	2

YEAR TWO

Vessel Operations
AAS Degree

Course #	Course Title	Credits
WR 227	Technical Writing.....	4
PSY 101	Psychology of Human Relations <i>or</i>	3
MAS 207	Leadership & Managerial Skills	4
HS 101	Alcohol use, Misuse, and Addiction (<i>or HS 102, Drug Use, Misuse, & Addiction or any acceptable 3 credit Humanities or Social Science course</i>) .3	.3
MAS 186	Small Vessel Operations I.....	2
MAS 187	Small Vessel Operations II.....	2
MAS 188	Small Vessel Operations III	2
MAS 170	Marine Weather, Tides, Currents & Waves.....	S 3
MAS 171	Coastal Navigation & Voyage Planning	3
MAS 180	Marine Electronics.....	2
MAS 190	Vessel Practicum.....	1-3
MAS 191	Deckhand Practicum.....	1-4
MAS 185	Bridge to Bridge Communication.....	S 3
MAS 130	Radar Observer: Original Endorsement, Unlimited	S 2
IT 110	Applied Technology Project	S 2

Technical Electives Course List

Students must complete 35 elective credits chosen from either the suggested electives or the list of technical electives. The following technical electives may be substituted for any suggested elective (S).

MAS 155	Introduction to Watchkeeping	2
MAS 190	Vessel Practicum.....	1-3
MAS 125	500/1600/Unlimited License Prep.....	2-8
MAS 127	200 Ton Master Upgrade	1
MAS 147	Rules and Regulations.....	S 3
MAS 148	Vessel Stability	S 3
MAS 201	Tank Ship Dangerous Liquids (Tankerman PIC)	3
MAS 206	ECDIS.....	2
MAS 207	Leadership & Managerial Skills	4
MAS 208	Ratings Forming Part of a Navigational Watch.....	2
MAS 280	Marine Cooperative Work Experience	1-4
**MAS	Any other Maritime Science course numbered 100 or above may be used for Technical Electives	
AUTO 108	Engine Fundamentals and Repair.....	4
IT 101	Engine Rebuilding – Gasoline.....	4
IT 110	Applied Technology Project	2
IT 208	Mechanical Drives and Transmission of Power	4

PH 201,202,203	General Physics	5 ea
PH 211,212,213	Physics with Calculus.....	5 ea
WLD	Welding (any class)	S 1-3

****Note:** No more than a total of 10 (ten) credits of any combination of the following courses may be applied to this degree:

MAS 120	U.S. Coast Guard Marine License Training ..	3
MAS 121	Able Seaman Training	4
MAS 122	OUPV Training	4
MAS 123	100 Ton Master Training	5
MAS 124	200 Ton Master Training	6
MAS 125	500/1600/Unlimited License Prep.....	2

Legend Notes:

S = Suggested Elective

* Minimum grade "C", "P" or higher.

+ IT 140 uses CD-ROM module training.

Satisfactory completion of this class is required before taking classes in any of the shop facilities.

SPECIALIZED TRAINING PROGRAMS AND COURSES IN THE MARITIME SCIENCES

Clatsop Community College's Maritime Science Department (MSD) offers specialized maritime training programs and courses. We offer training for individuals at entry skill levels and for mariners employed within the industry. An example of a group of specialized training courses and programs are the U.S. Coast Guard approved programs. The approved programs may do one, or more, of the following; (1) meet U.S. Coast Guard and International Maritime Organization (IMO) training requirements; (2) lead to U.S. Coast Guard and STCW (Standards of Training, Certification and Watchkeeping for Seafarers) endorsements; or (3) satisfy Code of Federal Regulation (CFR) requirements.

Courses that lead to U.S. Coast Guard license endorsements include:

1. Radar Observer Original, "Unlimited". (40-hour course)
2. Radar Observer Original, "Rivers". (24-hour course)
3. Radar Observer Re-Certification, "Unlimited" and "Rivers". (8 and 24-hours)
4. Automatic Radar Plotting Aids. (ARPA)
5. Global Marine Distress Safety System. (GMDSS)
6. Celestial Navigation, "Upon Ocean" endorsement for licenses up to 1600 gross tons. (Minimum of 60-hours required for licenses of 500 gross tons or greater)*
7. Proficiency in Survival Craft. (32-hour course)
8. Electronic Chart Display and Information System (ECDIS)
9. Apprentice Mate Steersman upgrade
10. Auxiliary Sail Endorsement
11. Assistance Towing Endorsement
12. Tankship Dangerous Liquids

The College's License Training Program is approved to satisfy CFR requirements. The approval allows students to complete the Training Program in lieu of U.S. Coast Guard testing for the following licenses:

1. Master/Mate 200 Gross Tons - Near Coastal/Inland Waters.*
2. Master/Mate 100 Gross Tons - Near Coastal/Inland Waters.*
3. Operator of Uninspected Passenger Vessels.*

*See the section on class format for an explanation of required hours for modular classes.

Maritime Science Department courses that meet CFR, IMO or Federal Communication Commission (FCC) requirements include:

1. Marine Safety (24-hour), CFR requirements.
2. Basic Training (40-hour), IMO and CFR requirements.
3. HAZWOPER (24 and 40 hour), CFR requirements.
4. Global Maritime Distress Safety System (GMDSS) Radio Operator, CFR requirements.
5. Bridge Resource Management (24 hour) IMO & CFR requirements.
6. Electronic Chart Display ECDIS
7. Tankship Dangerous Liquids
8. Radar Observer Original "Unlimited"
9. Automatic Radar Plotting Aids ARPA
10. Ratings Forming Part of a Navigational Watch RFPNW
11. Vessel Personnel with Designated Security Duties VPDS
12. Celestial Navigation
13. Proficiency in Survival Craft
14. Leadership and Managerial Skills

Maritime Science Department's class format

Classes in the Maritime Science Department meet 8:00 A.M. - 5:00 P.M., Monday through Friday. The courses, or programs, marked with an asterisk (*) are modular classes. Students may start modular classes any day of the week and complete the required modules at their own learning rate. We sell most modules in forty-hour blocks of time.

The modular format allows students working in the industry additional flexibility for upgrading skills and training requirements.

Training Ship Program

Any applicant successfully completing the two year Training Ship Program, and presenting the certificate of training within one year of the completion to the USCG, will satisfy all of the sea service requirements for an endorsement as Able Seaman Special per 46 CFR 12.05-7(b)(1), to include Lifeboatman, AND; Operator of Uninspected Passenger Vessels upon Near Coastal or Inland waters. See advisor for Training Ship checklist and two year academic planner.

Certificate and Degree Programs

The College offers a Seamanship One-Year Certificate and an Associate of Applied Science Degree in Vessel Operations.

Marine Fire Training

The College offers Basic, Advanced & Combined Marine Fire Fighting training in the Fire Research and Response Center (FRRC). The Basic Fire class is a two-day USCG approved course that meets international standards and includes the theory of fire, fire prevention principles, fire detection systems, self-contained breathing apparatus, search & rescue, emergency egress and live fire fighting. The Combined (basic & advanced) Marine Fire Fighting training is a five-day USCG approved course that meets all requirements for basic & advanced fire fighting. Course elements include those of Basic Fire Fighting, plus stowage and handling of hazardous materials, fire fighting effects on ship stability, incident command systems (ICS), fire fighting in port, team training, and complex live fire fighting scenarios.

The FRRC provides a training facility for land-based fire fighters from the regional area and beyond. Classes can be arranged to meet the needs of specific groups. For additional information contact the Maritime Science Department at 503-325-7962.

Radar Observer Program

The U.S. Coast Guard approved Radar Observer Program offers you five different courses: Five-day original endorsement, three-day "Rivers" original endorsement, one-day "Rivers" recertification, three-day recertification, and one-day recertification. The five-day original endorsement class is required if you are operating vessels 200 gross tons or over on an ocean route or 300 gross tons on any route. The three-day "Rivers" original endorsement course meets federal requirements for operators of towing vessels of 26 feet or more in length operating solely on rivers. The three-day recertification class is designed for you if you need to renew your "unlimited" endorsement and would like to practice your plotting skills before taking the renewal exam. The one-day recertification class does not include any instruction or practice time and is limited to the exam only. The one-day recertification class is recommended only if you have recent time on direct plotting radars. Instruction in the three- and five-day classes will include radar operation, characteristics of radar waves, target identification, plotting (three-day "Rivers" does not include plotting), and rules of the road for using radar.

Cost of the classes includes books and classroom materials. You must pay at the time you reserve your class seat. For more information about registering for the radar school, call the Maritime Science Center, 503-325-7962.

ARPA Training

The U.S. Coast Guard approved Automatic Radar Plotting Aids (ARPA) course meets the requirements for STCW certification and endorsement for master, mate and officer in charge of a navigational watch on ships equipped with ARPA radar. Students must currently hold an unlimited radar endorsement. The 32-hour course covers principles, performance standards and operation of ARPA radar and includes recertification for the unlimited radar endorsement. Additional information about this program can be obtained by contacting the Maritime Science Center, 503-325-7962.

STCW GMDSS Training

The U.S. Coast Guard approved 70-hour Global Marine Distress Safety System (GMDSS) course meets the minimum required training for certification as GMDSS operator in accordance with USCG and STCW standards. The course includes principles of communications, GMDSS communications system, GMDSS equipment, distress alerting and operational procedures. The student will operate actual GMDSS equipment with state of the art simulation hardware. Additional information about this program can be obtained by contacting the Maritime Science Center, 503-325-7962.

Basic Safety Training

The U.S. Coast Guard STCW-95 approved 40-hour Basic Safety Training class includes the following modules; Personal Safety & Social Responsibility; Basic Fire Fighting; Personal Survival Techniques and Elementary First Aid. This Class meets the STCW-95 requirements for mariners sailing beyond the boundary line.

Bridge Resource Management

The U.S. Coast Guard STCW-95 approved 24-hour Bridge Resource Management course satisfies the requirements for procedures for bridge team work, as set forth in Title 46 CFR, parts 10.205(3)(0) and Section B-VIII/2 of the STCW code.

Proficiency in Survival Craft (Lifeboatman)

The U.S. Coast Guard approved 32-hour Proficiency in Survival Craft course satisfies the requirements for individuals in charge of survival craft, as set forth in title 46 CFR parts 12.10 and table A-V/1/2-1 of the STCW code.

Any national and/or state legal eligibility requirements for licensure can be found on our website: www.clatsopcc.edu

ONE-YEAR CERTIFICATE PROGRAM

One Year Certificate:

The Medical Assistant Program prepares students for entry level employment in a physician's clinic or a variety of other health care settings. Program graduates will have the academic, administrative and clinical skills necessary for an allied healthcare professional. Courses cover anatomy, physiology, and medical terminology, as well as computers, office procedures, communication, psychology and math.

Job Description:

Medical Assistants perform routine administrative and clinical tasks to keep healthcare delivery systems running smoothly. An MA will work in reception, scheduling, medical records, insurance billing, and as a medical office secretary. An MA will also work as a clinical assistant to the physician by preparing patients for examinations, assisting with treatments, collecting and testing specimens and educating patients on health promotion and disease prevention issues.

Employment Opportunities:

The job outlook is excellent, locally, regionally, and nationally, and is projected to grow.

Potential earnings:

The average rate of pay for Medical Assistants in Oregon is \$29,274 annually.

**MEDICAL ASSISTANT: THREE-TERM
CERTIFICATE**

Role Descriptions: The Medical Assistant Program is designed for persons intending to work in a physician's office, performing routine administrative clinical procedures that keep health care delivery settings running smoothly.

Intended Learning Outcomes: Learning experiences in this program are designed to assist the student in realizing the following outcomes:

1. Interact in a caring and respectful manner with patients, families, and the healthcare team.
2. Establish and manage office procedures and implement medical documentation systems using appropriate medical terminology.
3. Perform the administrative business tasks required in a medical office.
4. Assist the physician and other members of the health care team in clinical procedures related to the examination and treatment of patients.
5. Comply with quality assurance requirements in performing clinical laboratory procedures.
6. Perform common diagnostic procedures under a licensed healthcare provider to ensure patient comfort and safety.

YEAR ONE Medical Assistant One-Year Certificate

FALL	Medical Assistant Clinical Procedures * MA 112, 3 Cr.	English Composition * WR 121, 4 Cr.	Office Skills/ Medical Office MA 127, 5 Cr.	Body Structure and Function I * MA 120, 4 Cr.	
	WINTER	Medical Assistant Practicum I MA 133, 4 Cr.	Math for Applied Sciences ** MTH 65, 4 Cr.	Medical Assistant Clinical Procedures II * MA 113, 4 Cr.	Body Structure and Function II * MA 121, 4 Cr.
	SPRING	Technical Writing * WR 227, 4 Cr.	Pharmacology for Medical Assistants MA 115, 3 Cr.	Medical Assistant Practicum II MA 231, 5 Cr.	Psychology of Human Relations PSY 101, 3 Cr.

Legend Notes:

* Minimum grade of "C" or higher.

** Minimum grade of "C", "P" or higher. May substitute MTH 95 or higher.

Nursing Program Admission Requirements

Nursing program enrollment is limited. Acceptance into the Nursing program is determined by a weighted point system from a pool of qualified applicants. A student must meet the minimum requirements to be considered for admission. If the minimum requirements have been met the student's application will be evaluated and awarded points in a competitive process. The top ranking individuals will be offered admission to the program. Remaining qualified candidates are placed on a ranked alternate list which expires when fall term commences. Program information and application packets will be updated annually and can be obtained from the Admissions Office or the College website.

The following minimum requirements must be met by the published deadline for an application to be evaluated. Please see this catalog for course descriptions.

A student must meet the following Minimum Evaluation Requirements:

1. GPA REQUIREMENT: The student must meet the following criteria.

- A minimum of **30** pre-requisite credits with a cumulative 3.0 GPA for all pre-requisite credits earned to apply. Student must complete a minimum of **45** pre-requisite credits with a cumulative 3.0 GPA for all college credits before admission to Nursing Courses.

All pre-requisite credits must have a cumulative GPA of 3.0. The student is required to have a minimum of 30 credits to apply.

2. FOR FALL 2018 ENTRY: PRE-REQUISITE/REQUIRED PREPARATORY COURSES:

Course No.	Course Title	Credits
BI 112 <i>or</i>	Cell Biology <i>or</i>	3-5
GS 112 <i>or</i>	Chemistry and Cell Biology <i>or</i>	
BI 222	Human Genetics	
*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	Introduction to Microbiology	4
*MTH 95 <i>or</i> higher	Algebra - Intermediate.....	4
NFM 225	Human Nutrition.....	4
PSY 215	Introduction to Developmental Psychology	3
*WR 121	English Composition	4
WR 122	Advanced Composition	4
Arts and Letters	Elective	3
Social Science	Electives	3
	**Any college level (100 or 200)	
	transferable elective to equal 45	0-1

* These courses must be within the 30 credits to meet Minimum Evaluation Requirements for application.

THE FOLLOWING REQUIREMENTS MUST BE COMPLETED IN THE LAST 7 YEARS.

MATH REQUIREMENT: You must meet one of the following criteria.

- MTH 95 Intermediate Algebra or MTH 111 College Algebra or a course for which MTH 111 is a prerequisite completed with a grade of "C" or above.

ANATOMY AND PHYSIOLOGY REQUIREMENT: You must meet this requirement.

- Completion of BI 231, BI 232, and BI 233 or the equivalent as determined by the Clatsop Community College Registrar's Office completed with a grade of "C" or above.

Once accepted into the program the student will need to pay a non-refundable deposit, pass a Criminal Background Check and meet other requirements for immunization, basic nursing skills and CPR training. These requirements can be found in the nursing application.

Admission Requirements • Special Considerations

Clinical rotations:

A student planning on entering the nursing program must be aware that clinical rotations may take place in Clatsop, Tillamook or Pacific Counties. These rotations may be on weekends, evenings or day shifts. Students are expected to have reliable transportation in order to attend required clinical rotations. Students are assigned to specific clinical sites based on a variety of factors including practice level, course curriculum goals, availability of experiences, faculty supervision and individual student needs. Each student's individual educational and practice needs are carefully considered when placements at the clinical sites are made.

Online instruction:

Students need to be aware that the nursing program uses online instruction for selected courses, communication, assignments, testing and additional content delivery throughout the program. Students may use their own personal computers but support will only be provided by College personnel for issues directly related to the use of college email and Brightspace (the course management system used by the college.) Use of college computers is highly encouraged and made available in computer labs housed throughout the campus as well as at the South County Campus in Seaside. Students should be aware of hours of operations for the labs provided by the College. This information is published on the College website.

Re-entry or Advanced Placement Admission

Students applying for either re-entry or advanced placement must complete the appropriate application by the due date to be considered. A student may enter the nursing program after NRS 110 under one of two categories:

Re-entry

A student, who withdraws from the CCC Nursing program after NRS 110, has one opportunity to reenter. A student is eligible for re-entry if he/she:

- applies to the nursing program within the one year after the term he/she withdrew.
- has met the terms of his/her re-entry agreement.
- successfully completes any identified standardized tests.
- completes all degree program requirements up to point of re-entry.

Acceptance is contingent on availability of space.

Advanced Placement

A student is eligible for advanced placement if he/she has:

- completed all degree course requirements up to point of entry
- and*
- been out of the CCC nursing program for more than one year *or*
- been previously enrolled in a nursing program at another college

Students seeking admission into other terms of the nursing program will be required to audit courses, take exams, complete lab hours and demonstrate readiness to enter the program. Point of entry will be determined by the nursing faculty and director.

Acceptance is determined by a weighted point scale and contingent on availability of space.

Any national and/or state legal eligibility requirements for licensure or entry can be found on our website:
www.clatsopcc.edu

Students will be required to take NUR 111, Nursing Concepts and Clinical Practice for 3 credits, prior to reentry/entry into the Nursing program.

ASSOCIATE OF APPLIED SCIENCE DEGREE

LEARNING OUTCOMES - NURSING: AAS DEGREE

Role Descriptions: The Nursing program is designed for the person intending to work as a registered nurse in the health care industry.

Intended Learning Outcomes: Learning experiences in this program are designed to assist the student in realizing the following outcomes:

1. Demonstrate the ability to assess, diagnose, plan, implement and evaluate nursing plans of care which address the holistic needs of diverse individuals, families and groups.
2. Communicate effectively and collaboratively with clients, families and members of the health care team.
3. Practice within the legal and ethical standards of nursing (as defined by the American Nurses Association and State Boards of Nursing).
4. Demonstrate informational literacy to acquire and utilize new scientific and technology in the planning and delivery of nursing care.
5. Demonstrate caring behaviors by respecting the diversity of each person by treating them with dignity and integrity.
6. Develop insight through reflection, self-analysis and self-care.
7. Utilize technology to find, retrieve, plan and implement quality evidence-based nursing care.
8. Demonstrate the ability to lead, coordinate, organize, manage and delegate nursing care to appropriate nursing personnel and provide supervision.

Nursing AAS Degree Job Description:

Registered nurses (RNs) are caring and use their knowledge, skills, and problem-solving to help individuals, families, and groups with health needs. RNs plan care and work with people to help them become healthier or to regain health after illness or surgery. Nurses teach health practices to clients and other health care providers, and frequently supervise the work of nursing assistants and practical nurses. RNs also administer medications and perform treatments for patients. Nurses work in a variety of settings, including hospitals and long-term care, schools, industry, clinics, and patients' homes. With advanced education, nurses may work as managers, educators, public health nurses, as a clinical specialist, or independently as a nurse practitioner.

Employment Opportunities:

Then national need for registered nurses is critical at the present time, and is expected to increase.

Potential Earnings:

The beginning wage in Oregon is approximately \$29.07 per hour or \$60,465 annually depending where the nurse works. The average wage in Oregon is \$38.56 per hour or \$80,204 annually depending where the nurse works.

YEAR ONE Nursing AAS

FALL WINTER SPRING	Health Promotion NRS 110, 9 Cr.	Social Science Elective 3 Cr.	Transferable Elective 3 Cr.	Note: All required courses must be completed with a "C" grade or higher to receive the certificate.	
	Acute Care I NRS 112, 6 Cr.	Pharmacology I NRS 230, 3 Cr.	Pathophysiology NRS 232, 3 Cr.		Transferable Elective 3 Cr.
	Chronic Care I NRS 111, 6 Cr.	Pharmacology II NRS 231, 3 Cr.	Pathophysiology II NRS 233, 3 Cr.		WR 123/227 0-3 Cr. (If Needed)

- Students are required to have 8 credits of writing (WR 121: 4 credits and WR 122: 4 credits). If student took 3 credit WR 121/122 they will need an additional writing course first year, spring term.
- Electives must be from Arts and Letters, Social Science and/or Science courses.

YEAR TWO Nursing AAS

FALL WINTER SPRING	Chronic Care II NRS 221, 9 Cr.	Transferable Elective 6 Cr.	Notes: All first year program requirements must be completed with a "C" grade or higher to enter the second year of the program. All required courses must be completed with a "C" grade or higher to receive the degree.
	Acute Care II NRS 222, 9 Cr.	Transferable Elective 6 Cr.	
	Integrative Practicum NRS 224, 9 Cr.	Transferable Elective 3 Cr.	

- 45-46 Pre-requisite credits, 60 Nursing credits, 25 science/elective credits = Total for AAS-Nursing: 130 credits

AMERICAN WELDING SOCIETY ENTRY LEVEL WELDING ONE-YEAR CERTIFICATE PROGRAM AND AAS DEGREE

Job Description:

This competency based program will provide an individual with the prerequisite knowledge, skills, work habits and attitude required to perform routine, predictable, proceduralized tasks as defined by the American Welding Society. These entry-level welding tasks involve motor skills and limited theoretical knowledge and are performed under close supervision. Course curriculum follows the AWS specifications for qualification and certification of QC10-95 entry level welder. This program is one step on the ladder of skills the trainees may achieve in their quest for a rewarding career. People who are creative and enjoy mind-hand challenges will find opportunities for advancement and experience a great sense of pride in workmanship as they ply their trade.

Employment Opportunities:

The job outlook for welding is good regionally, nationally and globally. Entry level welders are employed in a wide range of industries that use welding and welding-related tasks during daily operations.

Potential Earnings:

State employment data shows that the entry-level wage for Oregon Statewide is \$11.81 with an average wage of \$17.71 (annual average of \$36,829) and the top salary range being \$24.38. National median hourly wages is \$17.04 with wages ranging from \$11.51 to \$25.82 per hour.

Program Requirements:

Program Requirements: The department recommends that students enter the program at the beginning of a scheduled term, based on space availability. Some classes may not be offered every term. Acceptance into the program is based on placement test scores that demonstrate proficiency of basic math and high school level reading/writing skills. Because a variety of working conditions exist in the welding field, a person generally should be in good physical condition and be able to stand, stoop, kneel and bend. Good eyesight, especially depth perception, is necessary for a welder.

LEARNING OUTCOMES:

Role Descriptions: The Welding Program is designed for the person intending to work as an entry-level welder in a welding shop.

Intended Learning Outcomes: Welding Certificate

Learning experiences in this program are designed to assist the student in realizing the following outcomes:

1. Weld metals proficiently using five different processes:
 - a. Material processing (oxy-fuel welding and cutting, plasma, carbon air arc).
 - b. Oxy-fuel (welding and cutting).
 - c. Shielded metal arc welding.
 - d. Gas metal arc welding.
 - e. Gas tungsten welding.
2. Follow safe practices in performing all welding tasks.
3. Interpret written, schematic and numerical data to carry out customer specifications of a proposed welding product; write technical work orders for fabrication.
4. Share in the responsibilities of maintaining a clean and orderly welding shop environment.
5. Perform the business functions of customer service and materials acquisition.
6. Manage a student portfolio to include skills students have learned.

Intended Learning Outcomes: Welding and Fabrication AAS Degree

1. Weld metals proficiently using five different processes:
 - a. Material processing (oxy-fuel welding and cutting, plasma, carbon air arc).
 - b. Oxy-fuel (welding and cutting).
 - c. Shielded metal arc welding.
 - d. Gas metal arc welding.
 - e. Gas tungsten welding.
2. Follow safe practices in performing all welding tasks.
3. Interpret written, schematic and numerical data to carry out customer specifications of a proposed welding product; write technical work orders for fabrication.
4. Share in the responsibilities of maintaining a clean and orderly welding shop environment.
5. Perform the business functions of customer service and materials acquisition.
6. Manage a student portfolio to include skills students have learned.
7. Use standard industrial equipment to make quality repairs and fabrication on different types of metals.
8. Assess, prioritize, and manage work tasks in fabrication and repair.

Career Pathway Certificate in Welding

Course Number	Course Title	Credits
IT 140	Industrial Safety ***	1
WLD 100	Materials Processing	2
WLD 101	Shielded Metal Arc Welding Process	3
WLD 102	Gas Metal Arc Welding Process	3
WLD 103	Flux Core Arc Welding Process	3
WLD 104	Gas Tungsten Arc Welding Process	3
Total Credits:		15

There are six additional Career Pathway welding certificates: see pages 95-101

* Minimum grade of "C" or higher.

YEAR ONE AWS Entry Level Welding One-Year Certificate

FALL	Industrial Safety *** IT 140, 1 Cr.	Technical Print Interpretation DRF 139, 3 Cr.	Math for Applied Science* MTH 65, 4 Cr.	Intermediate Algebra* MTH 95, 4 Cr.	Materials Processing WLD 100, 2 Cr.	Arc Weld. Tech. WLD 140, 1 Cr.	Shielded Metal Arc Welding Process WLD 101, 8 Cr.
	Gas Metal Arc Welding Process WLD 102, 7 Cr.	Flux Core Arc Welding Process WLD 103, 6 Cr.	English Composition** WR 121, 4 Cr.				
	3 Cr. Any Human Relations Course****	Gas Tungsten Arc Welding Process WLD 104, 6 Cr.	Cooperative Work Experience WLD 280, 2 Cr.	+	Cooperative Work Experience Seminar WLD 281, 1 Cr.	or	3 Cr. Any Arts + Letters / Social Science Elective
WINTER							
SPRING							

YEAR TWO Welding and Fabrication AAS Degree

FALL	Welding Fabrication WLD 209, 2 Cr.	Adv. Shielded Metal Arc Weld. WLD 205, 4 Cr.	Adv. Gas Metal Arc Weld. WLD 206, 4 Cr.	Advanced Composition WR 122, 4 Cr.	or	Technical Writing WR 227, 4 Cr.	Computer Aided Design I DRF 213, 4 Cr.	
	Welding Fabrication WLD 209, 2 Cr.	Adv. Flux Core Arc Weld. WLD 207, 4 Cr.	Adv. Gas Tungsten Arc Weld. Process WLD 208, 4 Cr.	Humanities/Social Science Electives Hum/SS List, 6 Cr.	Cooperative Work Experience WLD 280, 2 Cr.		or	3 Cr. Any Arts & Letters / Social Science Elective
	Welding Fabrication WLD 209, 2 Cr.	Pipe Welding WLD 210.	and/or	Structural Steel Welding WLD 220	Up to 8 Credits			
WINTER								
SPRING								

Legend Notes:

- * Minimum grade "C", "P" or higher. Math courses numbered higher than MTH 95 may be substituted.
- ** Minimum grade "C" or higher.
- ***IT 140 uses CD-ROM training modules. Satisfactory completion of this class is required before taking classes in any of the shop facilities.
- **** As Approved by Registrar

Notes: The program addresses the application of technical writing skill as the trainee delivers written quality control reports for each welding process workmanship sampling. Students demonstrate practical math applications throughout the program, especially in the workmanship assessment projects.

Upon completion the trainees will receive a Certificate of Completion from AWS qualifying them as a nationally recognized entry level welder. They will also be registered in the AWS databank for certificate verification purposes.

Automotive Technology

Starting Options

The following classes may be available at or through local high schools. Check with school for availability.

College Now/High School Articulation Courses:

- IT 140 Industrial Safety (1 Cr.)
- AUTO 101 Intro to Automotive Technology (4 Cr.)
- AUTO 125 Electrical/Electronics I (4 Cr.)

Career Pathway Certificate

Automotive Technician

Length of Training:

Approximately 9 months (minimum 17 credits)

Classes:

- AUTO 101 Intro to Automotive Technology (4 Cr.)
- AUTO 108 Engine Fundamentals and Repair (4 Cr.)
- AUTO 125 Electrical/Electronics I (4 Cr.)
- AUTO 130 Brake Systems I (4 Cr.) OR
- AUTO 229 Engine Diagnosis & Service (4 Cr.)
- IT 140 Industrial Safety (1 Cr.)

Careers

- Helper: Installation, Maintenance, and Repair Workers
- Service Station Attendant

Careers

- Entry Level Automotive Service Technician
- Entry Level Automotive Mechanic
- Parts Salesperson
- Service Station Attendant
- Tire Repairer and Changer

One Year Certificate

Automotive Technician

Length of Training:

Approximately 9 months (minimum 45 credits)

Careers

- Automotive Service Technician
- Automotive Mechanic
- Recreational Vehicle Service Technician
- Electronic Equipment Installer and Repairer, Motor Vehicles
- Electrical and Electronics Installer and Repairer, Transportation Equipment

AAS

Automotive Technician

Length of Training:

Approximately 24 months (minimum 92 credits)

Classes:

During the second year, the HVAC class students will have the opportunity to take the EPA test to become certified to work on mobile air conditioning systems.

With the addition of two years minimum field experience and successful completion of the ASE exam, trainee may become a certified ASE Automotive Technician in his or her field of training.
www.asecert.org

Additional AAS Degree Options

Business Management

Length of Training: Depends on coursework completed for AAS Automotive Technician.

Careers

- Transportation Supervisor/Manager
- Service Department Manager

Entry Level Accounting Clerk

Starting Options

The following classes may be available at or through local high schools. Check with school for availability.

College Now/High School Articulation Courses:

- BA 131 Accounting Procedures I (3 Cr.)
- BA 132 Accounting Procedures II (3 Cr.)

Career Pathway Certificate

Entry Level Accounting Clerk

Length of Training:

Approximately 9 months (minimum 13 credits)

Classes:

- BA 101 Introduction to Business (4 Cr.)
- BA 131 Accounting Procedures I (3 Cr.)
- BA 132 Accounting Procedures II (3 Cr.)
- BA 228 Computer Accounting Applications (3 Cr.)

Careers

- Bookkeeping/Accounting/Auditing Clerk
- Billing/Posting Clerk
- Bill/Account Collector
- Receptionist/Information Clerk
- Office Clerk
- Office/Administrative Support Worker
- Human Resource Assistant
- Court, Municipal, or License Clerk
- Customer Service Representative

One Year Certificate

Business Professional

Length of Training:

Approximately 9 months (minimum 46 credits)

Careers

- Bookkeeping/Accounting/Auditing Clerk
- Billing/Posting Clerk
- Bill/Account Collector
- Receptionist/Information Clerk
- Office Clerk
- Office Support Worker
- Administrative Assistant

AAS

- Business Management
- Accounting Technician

Length of Training:

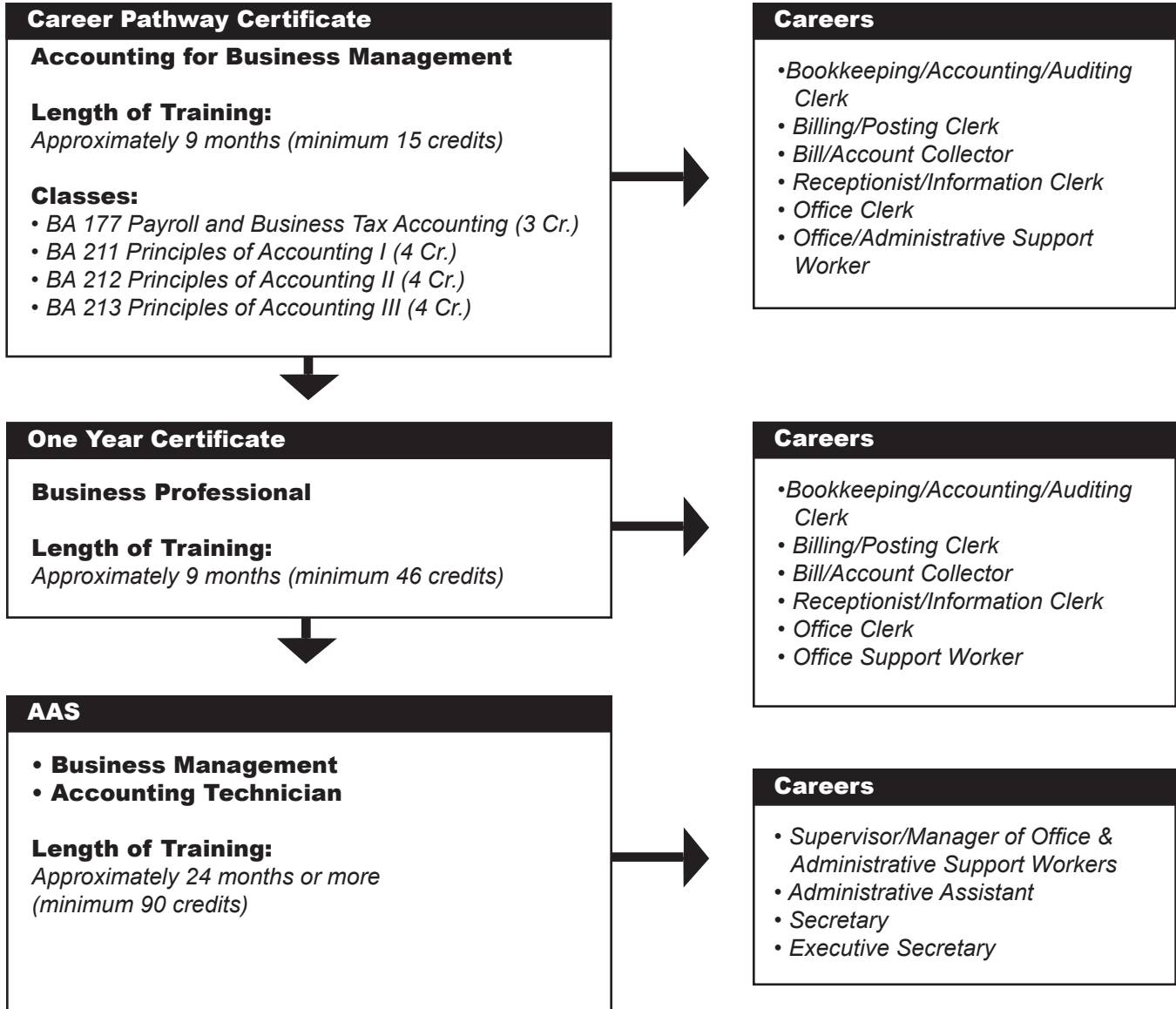
Approximately 24 months or more (minimum 90 credits)

Careers

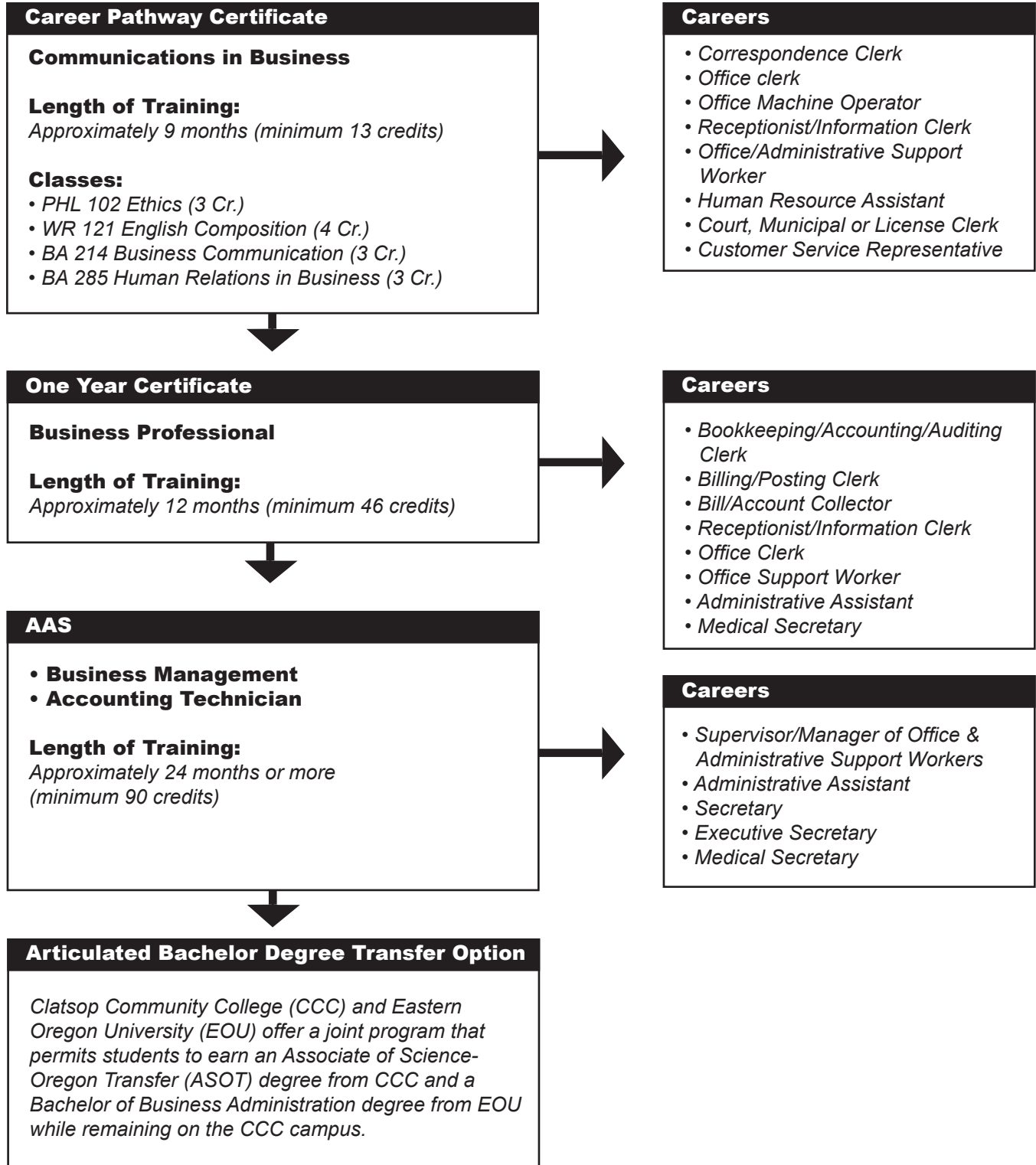
- Supervisor/Manager of Office & Administrative Support Workers
- Administrative Assistant
- Secretary
- Executive Secretary
- Medical Secretary

For additional information about Clatsop Community College's Career Pathways Programs and a link to State of Oregon Employment Department's Occupation Profile Reports visit our website:
www.clatsopcc.edu/careerpathways

Accounting for Business Management



Communications in Business



Business Professional

Starting Options

The following classes may be available at or through local high schools. Check with school for availability.

College Now/High School Articulation Courses:

- CS 131 Intro to Computer Info Systems (4 Cr.)
- CSL 107 Spreadsheets (3 Cr.)
- MIC 145 Intro to Integrated Software (3 Cr.)

Career Pathway Certificate

Business Professional

Length of Training:

Approximately 9 months (minimum 17 credits)

Classes:

- CS 131 Intro to Computer Info Systems (4 Cr.)
- CSL 107 Spreadsheets (3 Cr.)
- MIC 145 Intro to Integrated Software (3 Cr.)
- MTH 65 Math for Applied Science (4 Cr.) or
- MTH 95 Intermediate Algebra (4 Cr.)
- PHL 102 Ethics (3 Cr.)

Careers

- Office Clerk
- Office Machine Operator
- Receptionist
- Information Clerk
- Office Support Worker
- Administrative Support Worker
- Human Resource Assistant
- Court, Municipal, or License Clerk
- Customer Service Representative

One Year Certificate

Business Professional

Length of Training:

Approximately 12 months (minimum 46 credits)

Careers

- Office Clerk
- Executive Secretary
- Administrative Assistant
- Receptionist
- Information Clerk
- Office Support Worker
- Administrative Support Worker
- Human Resource Assistant
- Court, Municipal or License Clerk
- Customer Service Representative

AAS

- Business Management
- Accounting Technician

Length of Training:

Approximately 24 months or more
(minimum 90 credits)

Careers

- Supervisor/Manager of Office & Administrative Support Workers
- Executive Secretary
- Administrative Assistant
- Secretary
- Medical Secretary
- Legal Secretary

Articulated Bachelor Degree Transfer Option

Clatsop Community College (CCC) and Eastern Oregon University (EOU) offer a joint program that permits students to earn an Associate of Science-Oregon Transfer (ASOT) degree from CCC and a Bachelor of Business Administration degree from EOU while remaining on the CCC campus.

Entrepreneurship

Starting Options

The following classes may be available at or through local high schools. Check with school for availability.

College Now/High School Articulation Courses:

- BA 223 Principles of Marketing (3 Cr.)
- CSL 107 Spreadsheets (3 Cr.)

Career Pathway Certificate

Entrepreneurship

Length of Training:

Approximately 12 months (minimum 22 credits)

Classes:

- BA 101 Introduction to Business (4 Cr.)
- BA 177 Payroll and Business Tax (3 Cr.)
- BA 206 Management Fundamentals (3 Cr.)
- BA 223 Principles of Marketing (3 Cr.)
- BA 228 Computer Accounting Applications (3 Cr.)
- BA 250 Small Business Management (3 Cr.)
- CSL 107 Spreadsheets (3 Cr.)

Careers

- Receptionist/Information Clerk
- Court, Municipal or License Clerk
- Human Resources Assistant
- Customer Service Representative
- Administrative Assistant

Other Possible Career Opportunities:

Self-Employed, Small Business Owner (Continued education provides opportunities to enhance business skills for self employment. Contact Clatsop Economic Development Resources (CEDR) for business-driven economic development services to Create, Grow and Retain Clatsop County Businesses.)

One Year Certificate

Business Professional

Length of Training:

Approximately 12 months (minimum 46 credits)

Careers

- Bookkeeping/Accounting/Auditing Clerk
- Billing/Posting Clerk
- Bill/Account Collector
- Office Support Worker
- Administrative Assistant
- Receptionist/Information Clerk
- Executive Secretary
- Small Business Owner (General and Operations Manager)
- Self Employment (General and Operations Manager)

AAS

- Business Management
- Accounting Technician

Length of Training:

Approximately 24 months or more (minimum 90 credits)

Careers

- Supervisor/Mgr. of Office. & Admin. Support Workers
- Administrative Assistant
- Executive Secretary
- Small Business Owner (General and Operations Manager)

Articulated Bachelor Degree Transfer Option

Clatsop Community College (CCC) and Eastern Oregon University (EOU) offer a joint program that permits students to earn an Associate of Science-Oregon Transfer (ASOT) degree from CCC and a Bachelor of Business Administration degree from EOU while remaining on the CCC campus.

Emergency Medical Services (Pending State Approval)

Starting Options

The following classes may be available at or through local high schools. Check with school for availability.

College Now/High School Articulation Courses:

- FRP 101 Principles of Emergency Services (4 Cr.)

Career Pathway Certificate

Emergency Medical Services

Length of Training:

Approximately 6 months (minimum 21 credits)

Classes:

- EMT 151 EMT Part 1 (5 Cr.)
- EMT 152 EMT Part 2 (5 Cr.)
- EMT 176 Emergency Response: Patient Transportation (2 Cr.)
- EMT 177 Emergency Communications and Documentation (2 Cr.)
- FRP 101 Principles of Emergency Services (4 Cr.)
- FRP 168 Emergency Service Rescue (3 Cr.)

Careers

- Firefighter
- Emergency Medical Technician (EMT)

Careers

- Firefighters
- Fire Inspector/Investigator
- Forest Fire Inspector/Prevention Specialist
- Supervisor/Manager of Firefighting and Prevention Workers

Education and experience provide for career advancement.

AAS

• Fire Science

Length of Training:

Approximately 22 months (minimum 90 credits)

Careers

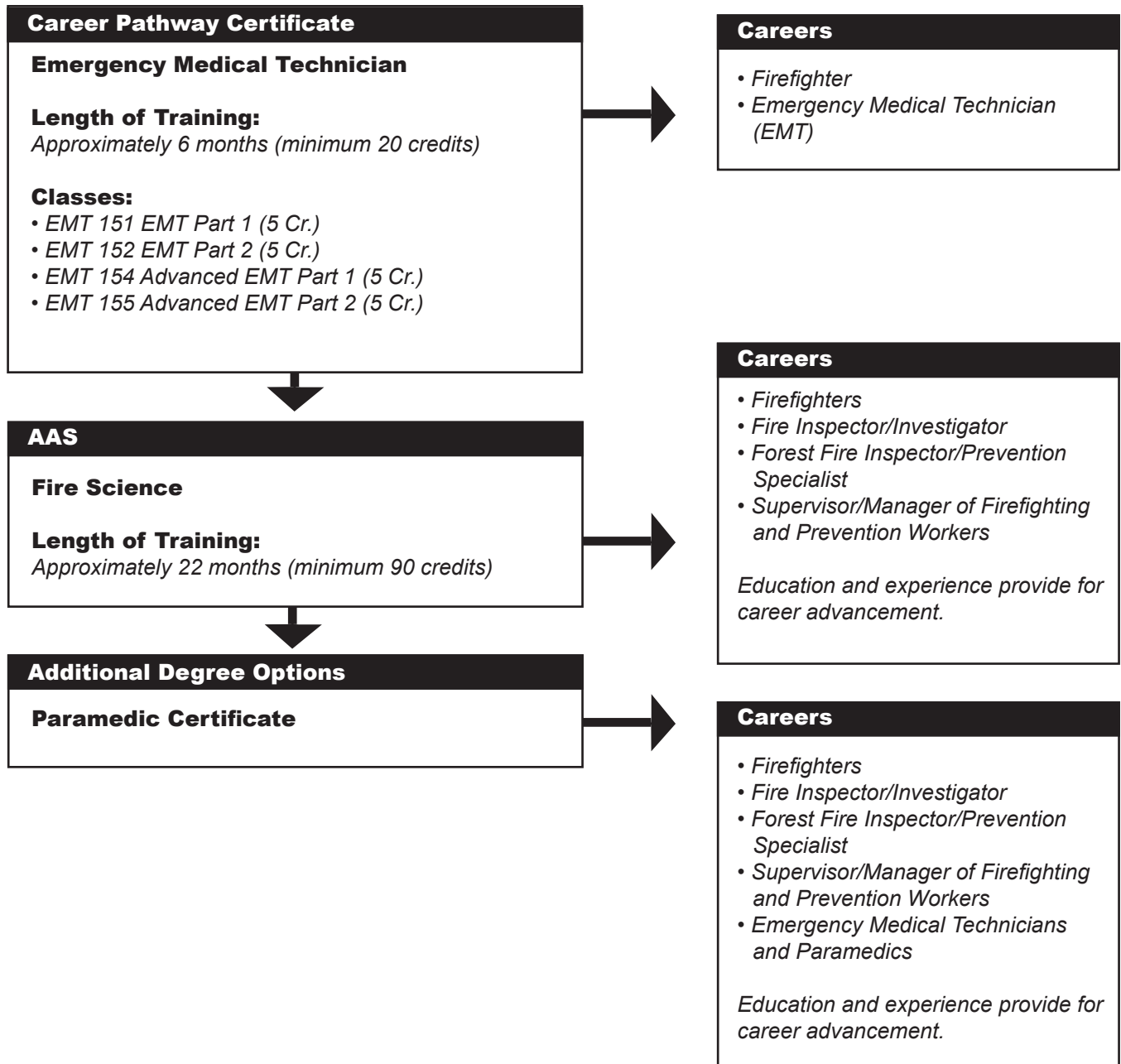
- Firefighters
- Emergency Medical Technicians and Paramedics
- Fire Inspector/Investigator
- Forest Fire Inspector/Prevention Specialist
- Supervisor/Manager of Firefighting and Prevention Workers

Education and experience provide for career advancement

Additional Degree Options

Paramedic Certificate

Emergency Medical Technician (Pending State Approval)



For additional information about Clatsop Community College's Career Pathways Programs and a link to State of Oregon Employment Department's Occupation Profile Reports visit our website:
www.clatsopcc.edu/careerpathways

Fire Science

Starting Options

The following classes may be available at or through local high schools. Check with school for availability.

College Now/High School Articulation Courses:

- FRP 101 Principles of Emergency Services (4 Cr.)
- FRP 151 Firefighter Skills (3 Cr.)

Career Pathway Certificate

Fire Science

Length of Training:

Approximately 6 months (minimum 21 credits)

Classes:

- EMT 151 EMT Part 1 (5 Cr.)
- EMT 152 EMT Part 2 (5 Cr.)
- FRP 101 Principles of Emergency Services (4 Cr.)
- FRP 110 Firefighter Skills I (1 Cr.)
- FRP 111 Firefighter Skills II (1 Cr.)
- FRP 112 Firefighter Skills III (1 Cr.)
- FRP 113 Firefighter Skills IV (1 Cr.)
- FRP 190 Introduction to Wildland Firefighting (4 Cr.)

Careers

- Firefighter, Entry Level
- Emergency Medical Technician (EMT)

Careers

- Firefighters
- Fire Inspector/Investigator
- Forest Fire Inspector/Prevention Specialist
- Supervisor/Manager of Firefighting and Prevention Workers

Education and experience provide for career advancement.

Careers

- Firefighters
- Emergency Medical Technicians and Paramedics
- Fire Inspector/Investigator
- Forest Fire Inspector/Prevention Specialist
- Supervisor/Manager of Firefighting and Prevention Workers

Education and experience provide for career advancement

AAS

Fire Science

Length of Training:

Approximately 22 months (minimum 90 credits)

Additional Degree Options

Paramedic Certificate

Historic Preservation and Restoration

Starting Options

The following classes may be available at or through local high schools. Check with school for availability.

College Now/High School Articulation Courses:

- DRF 213 Computer Aided Design I (4 Cr.)

Career Pathway Certificate

Historic Preservation and Restoration

Length of Training:

Approximately 3 - 6 months (minimum 16 credits)

Classes:

- BLD 101 Intro to Historic Preservation (1 Cr.) or
- BLD 201 Historic Preservation I (3 Cr.)
- BLD 110 Construction Safety for Historic Preservation (1 Cr.)
- BLD 111 Tool Safety for Historic Preservation (1 Cr.)
- BLD 140 Printreading for Construction (3 Cr.)
- DRF 213 Computer Aided Design I (4 Cr.)
- Historic Preservation Workshops (4-6 Cr.)

Careers

- Carpenter's Helper
- Construction Laborer
- Construction Trades Helper
- Carpenter

One Year Certificate

Historic Preservation and Restoration

Length of Training:

Approximately 9 months (minimum 47 credits)

Careers

- Carpenter's Helper
- Construction Laborer
- Construction Trades Helper
- Carpenter

AAS

Historic Preservation and Restoration

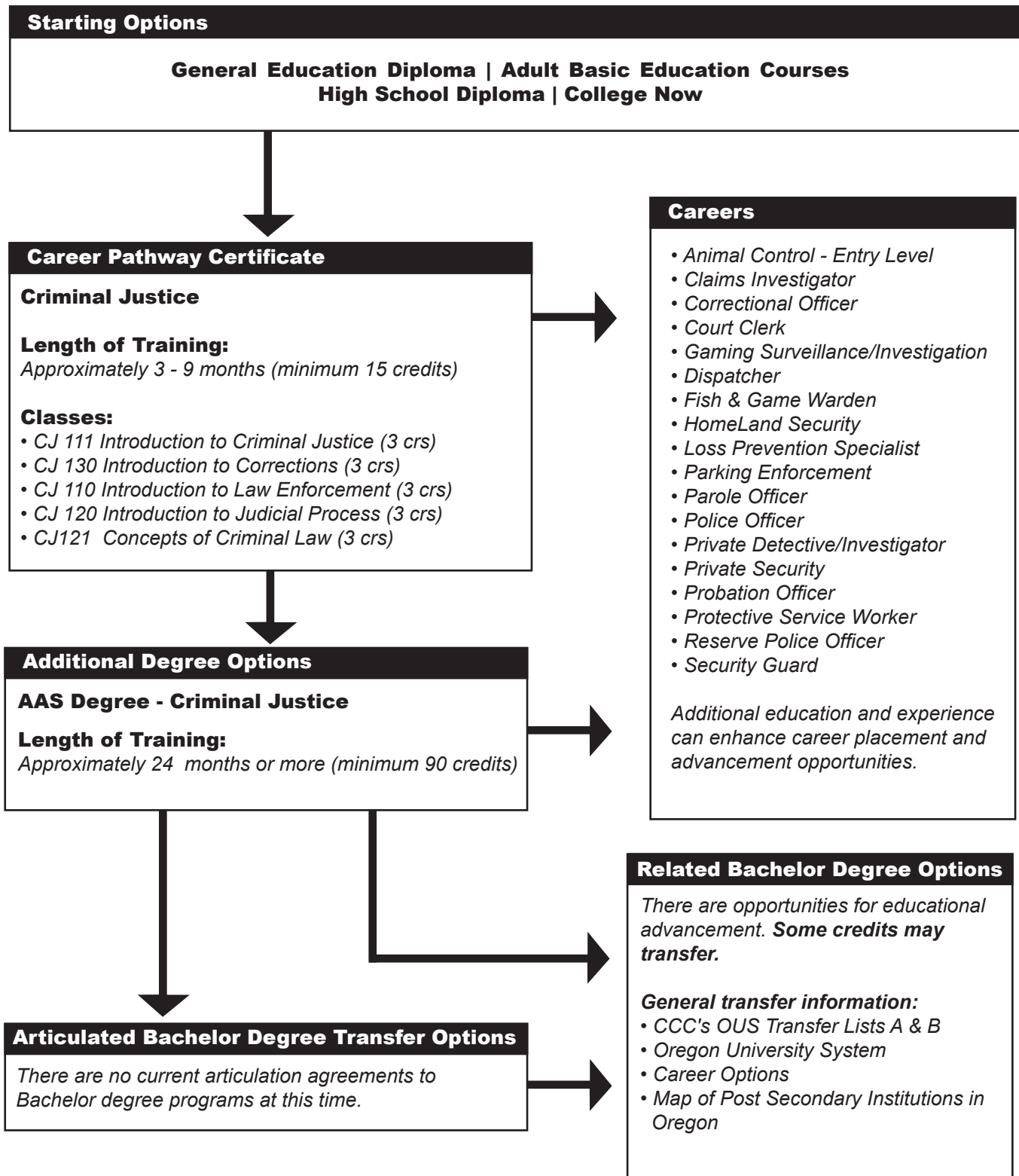
Length of Training:

Approximately 21 months or more (minimum 90 credits)

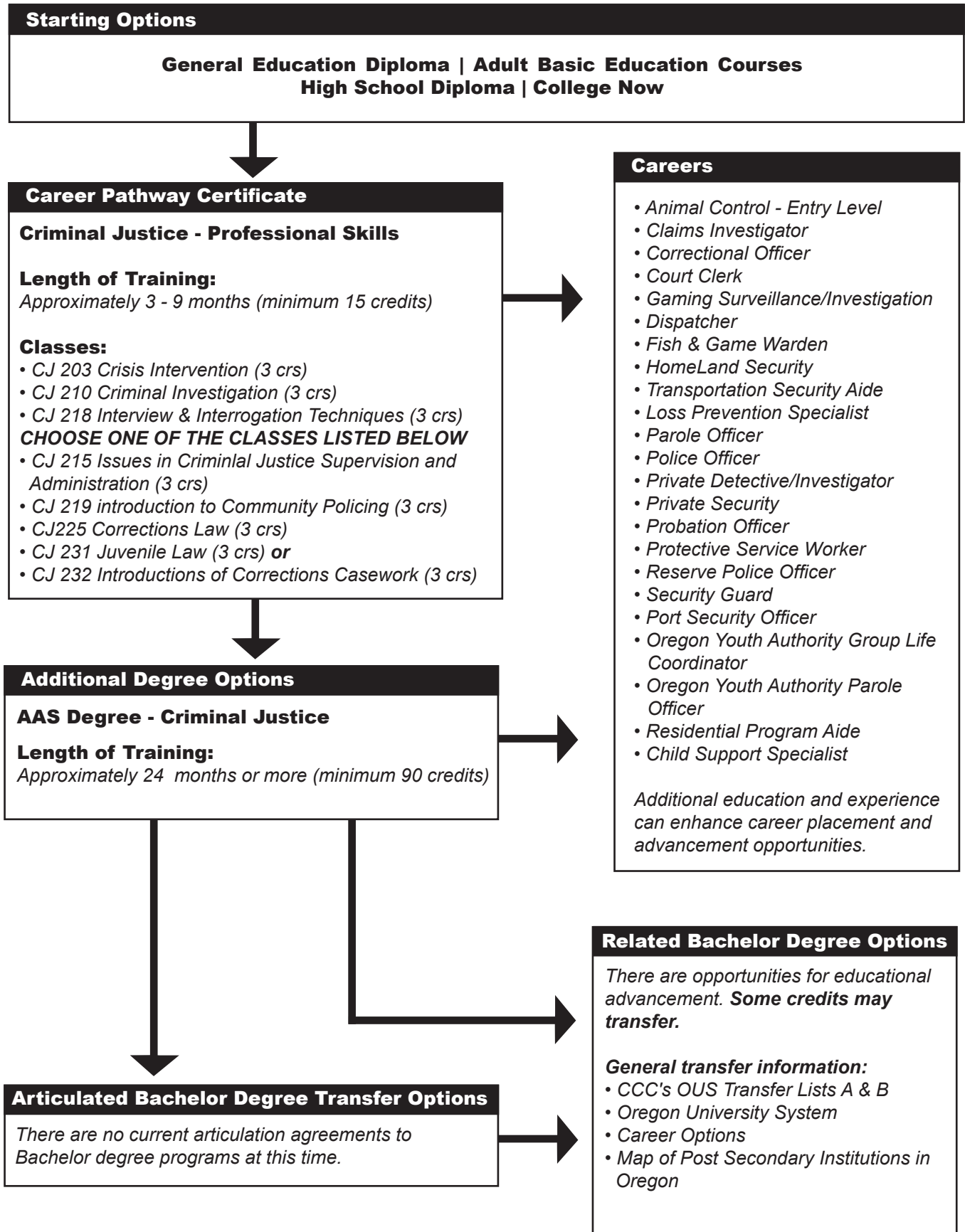
Careers

- Carpenter
- Supervisor/Manager of Construction Trades
- Construction Manager
- Construction/Building Inspector
- Other possible career opportunities
- Self-employed, Independent Contractor
- Specialty Design Builder
- Preservationist/Documenter of Historic Buildings

Criminal Justice



Criminal Justice - Professional Skills



Seamanship

Starting Options

The following classes may be available at or through local high schools. Check with school for availability.

College Now/High School Articulation Courses:

- MAS 181 Seamanship I (2 Cr.)
- MAS 182 Seamanship II (2 Cr.)
- MAS 182 Seamanship III (2 Cr.)



Career Pathway Certificate

Seamanship

Length of Training:

Approximately 3 - 9 months (minimum 17 credits)

Classes:

- MAS 135 STCW Basic Safety Training (3 Cr.)
- MAS 155 Introduction to Watchkeeping (2 Cr.)
- MAS 164 Introduction to Navigation (3 Cr.)
- MAS 168 Charts, Aids to Navigation and Marine Compasses (3 Cr.)
- MAS 181 Seamanship I (2 Cr.)
- * MAS 182 Seamanship II (2 Cr.)
- MAS 183 Seamanship III (2 Cr.)



Careers

- Ordinary Seaman

Careers

- Wiper
- Able Seaman
- Tankerman
- Oiler or QMED (Qualified Member of the Engineering Department)
- Boatswain
- Designated Duty Engineer
- Deck Officer or Mate
- Assistant Engineer
- Chief Officer or Chief Mate
- Chief Engineer
- Pilot

Education, experience, documented sea time, and proper licensure provide for career advancement.



One Year Certificate

Seamanship

Length of Training:

Approximately 9 months (minimum 46 credits)



AAS

Vessel Operations

Length of Training:

Approximately 24 months or more (minimum 90 credits)



Welding

Starting Options

The following classes may be available at or through local high schools. Check with school for availability.

College Now/High School Articulation Courses:

- IT 140 Industrial Safety (1 Cr.)
- WLD 100 Materials Processing (2 Cr)
- WLD 101 Shielded Metal Arc Welding Process (3 Cr)
- WLD 102 Gas Metal Arc Welding Process (3 Cr)
- WLD 103 Flux Core Arc Welding Process (3 Cr)
- WLD 104 Gas Tungsten Arc Welding Process (3 Cr)

Career Pathway Certificate

Welding

Length of Training:

Approximately 3 - 6 months (minimum 15 credits)

Classes:

- IT 140 Industrial Safety (1 Cr.)
- WLD 100 Materials Processing (2 Cr)
- WLD 101 Shielded Metal Arc Welding Process (3 Cr)
- WLD 102 Gas Metal Arc Welding Process (3 Cr)
- WLD 103 Flux Core Arc Welding Process (3 Cr)
- WLD 104 Gas Tungsten Arc Welding Process (3 Cr)

Related Career Pathway Certificates

Six additional Welding Certificates are available. See pages 95-101.

One Year Certificate (AWS Entry Level Welding)

Welding

Length of Training:

Approximately 9 months (minimum 48 credits)

Classes:

Upon completion, trainee will receive a Certificate of Completion from AWS, qualifying them as a nationally recognized entry-level welder. Trainee is also qualified to test to become a Certified Welder with the American Welding Society (AWS).

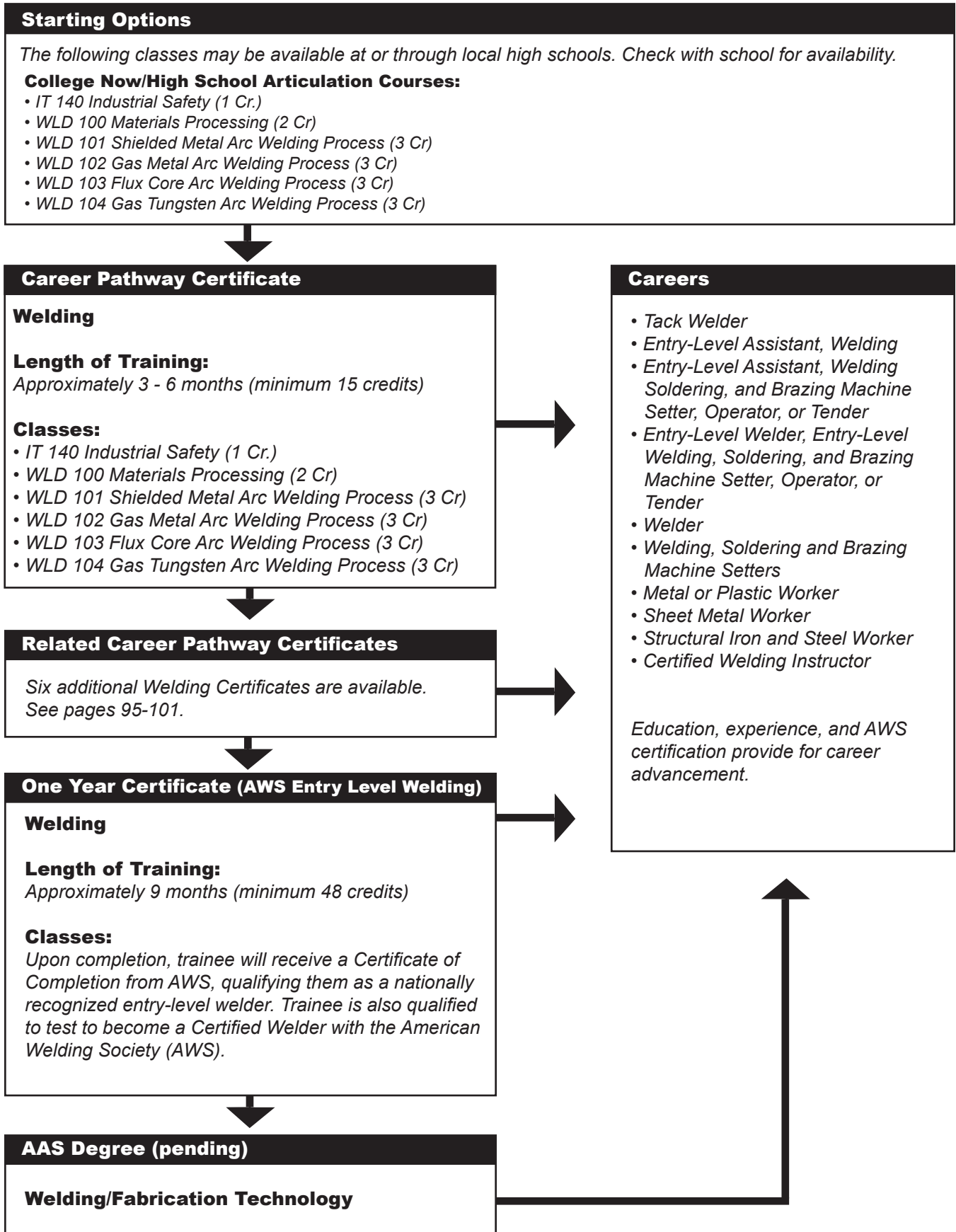
AAS Degree (pending)

Welding/Fabrication Technology

Careers

- Tack Welder
- Entry-Level Assistant, Welding
- Entry-Level Assistant, Welding Soldering, and Brazing Machine Setter, Operator, or Tender
- Entry-Level Welder, Entry-Level Welding, Soldering, and Brazing Machine Setter, Operator, or Tender
- Welder
- Welding, Soldering and Brazing Machine Setters
- Metal or Plastic Worker
- Sheet Metal Worker
- Structural Iron and Steel Worker
- Certified Welding Instructor

Education, experience, and AWS certification provide for career advancement.



Welding: Flux Core Arc & Gas Tungsten Arc

Starting Options

The following classes may be available at or through local high schools. Check with school for availability.

College Now/High School Articulation Courses:

- WLD 103 Flux Core Arc Welding Process (6 Cr)
- WLD 104 Gas Tungsten Arc Welding Process (6 Cr)

Career Pathway Certificate

Welding: Flux Core Arc & Gas Tungsten Arc

Length of Training:

Approximately 3 months (minimum 12 credits)

Classes:

- WLD 103 Flux Core Arc Welding Process (6 Cr)
- WLD 104 Gas Tungsten Arc Welding Process (6 Cr)

Related Career Pathway Certificates

Six additional Welding Certificates are available. See pages 95-101.

One Year Certificate (AWS Entry Level Welding)

Welding

Length of Training:

Approximately 9 months (minimum 48 credits)

Classes:

Upon completion, trainee will receive a Certificate of Completion from AWS, qualifying them as a nationally recognized entry-level welder. Trainee is also qualified to test to become a Certified Welder with the American Welding Society (AWS).

AAS Degree (pending)

Welding/Fabrication Technology

Careers

- Tack Welder
- Entry-Level Assistant, Welding
- Entry-Level Assistant, Welding Soldering, and Brazing Machine Setter, Operator, or Tender
- Entry-Level Welder, Entry-Level Welding, Soldering, and Brazing Machine Setter, Operator, or Tender
- Welder
- Welding, Soldering and Brazing Machine Setters
- Metal or Plastic Worker
- Sheet Metal Worker
- Structural Iron and Steel Worker
- Certified Welding Instructor

Education, experience, and AWS certification provide for career advancement.

Welding: Gas Metal Arc & Flux Core Arc

Starting Options

The following classes may be available at or through local high schools. Check with school for availability.

College Now/High School Articulation Courses:

- WLD 102 Gas Metal Arc Welding Process (6 Cr)
- WLD 103 Flux Core Arc Welding Process (6 Cr)

Career Pathway Certificate

Welding: Gas Metal Arc & Flux Core Arc

Length of Training:

Approximately 3 - 6 months (minimum 12 credits)

Classes:

- WLD 102 Gas Metal Arc Welding Process (6 Cr)
- WLD 103 Flux Core Arc Welding Process (6 Cr)

Related Career Pathway Certificates

Six additional Welding Certificates are available. See pages 95-101.

One Year Certificate (AWS Entry Level Welding)

Welding

Length of Training:

Approximately 9 months (minimum 48 credits)

Classes:

Upon completion, trainee will receive a Certificate of Completion from AWS, qualifying them as a nationally recognized entry-level welder. Trainee is also qualified to test to become a Certified Welder with the American Welding Society (AWS).

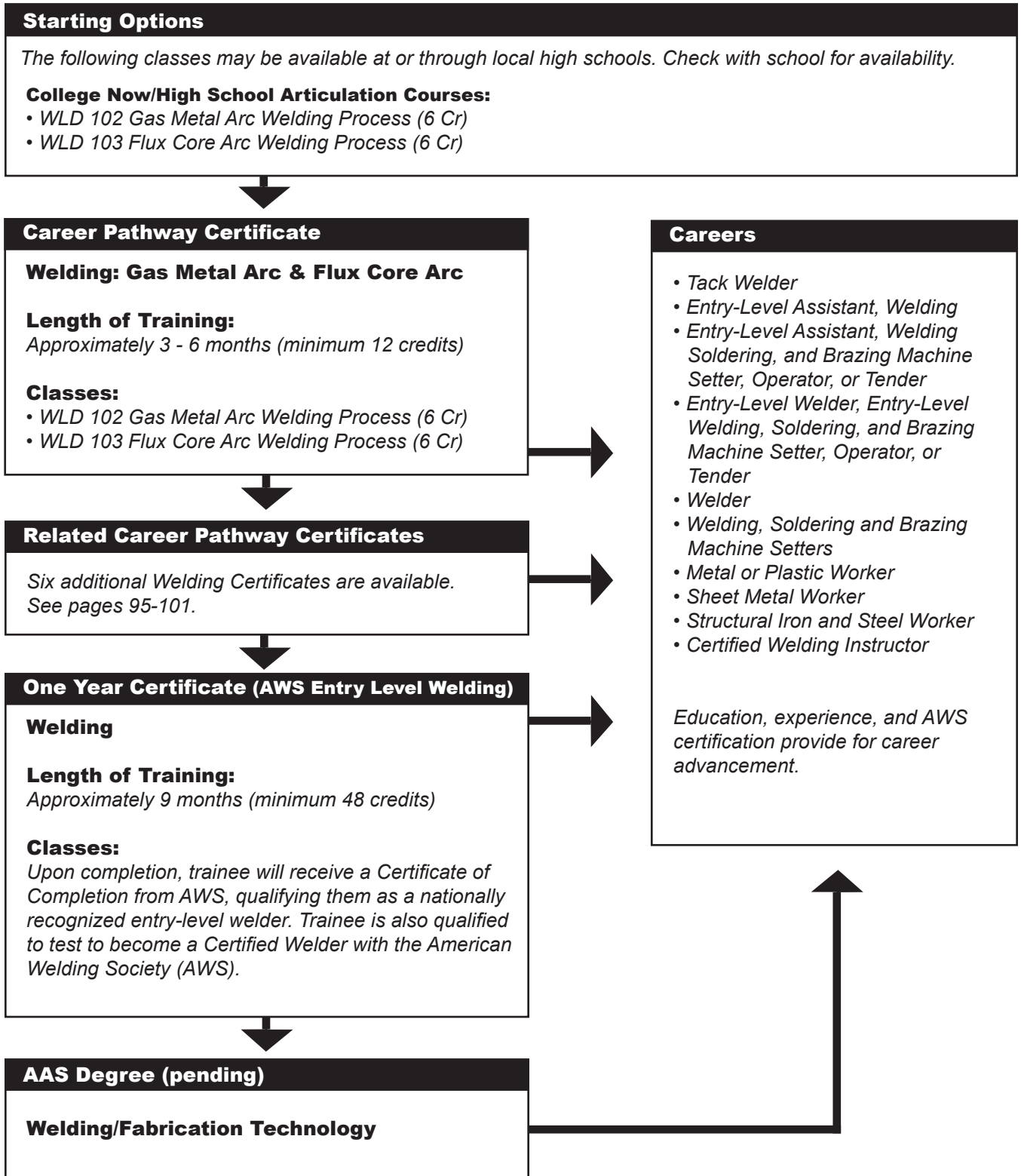
AAS Degree (pending)

Welding/Fabrication Technology

Careers

- Tack Welder
- Entry-Level Assistant, Welding
- Entry-Level Assistant, Welding Soldering, and Brazing Machine Setter, Operator, or Tender
- Entry-Level Welder, Entry-Level Welding, Soldering, and Brazing Machine Setter, Operator, or Tender
- Welder
- Welding, Soldering and Brazing Machine Setters
- Metal or Plastic Worker
- Sheet Metal Worker
- Structural Iron and Steel Worker
- Certified Welding Instructor

Education, experience, and AWS certification provide for career advancement.



Welding: Gas Metal Arc & Gas Tungsten Arc

Starting Options

The following classes may be available at or through local high schools. Check with school for availability.

College Now/High School Articulation Courses:

- WLD 102 Gas Metal Arc Welding Process (6 Cr)
- WLD 104 Gas Tungsten Arc Welding Process (6 Cr)

Career Pathway Certificate

Welding: Gas Metal Arc & Gas Tungsten Arc

Length of Training:

Approximately 3 months (minimum 12 credits)

Classes:

- WLD 102 Gas Metal Arc Welding Process (6 Cr)
- WLD 104 Gas Tungsten Arc Welding Process (6 Cr)

Related Career Pathway Certificates

Six additional Welding Certificates are available.
See pages 95-101.

One Year Certificate (AWS Entry Level Welding)

Welding

Length of Training:

Approximately 9 months (minimum 48 credits)

Classes:

Upon completion, trainee will receive a Certificate of Completion from AWS, qualifying them as a nationally recognized entry-level welder. Trainee is also qualified to test to become a Certified Welder with the American Welding Society (AWS).

AAS Degree (pending)

Welding/Fabrication Technology

Careers

- Tack Welder
- Entry-Level Assistant, Welding
- Entry-Level Assistant, Welding Soldering, and Brazing Machine Setter, Operator, or Tender
- Entry-Level Welder, Entry-Level Welding, Soldering, and Brazing Machine Setter, Operator, or Tender
- Welder
- Welding, Soldering and Brazing Machine Setters
- Metal or Plastic Worker
- Sheet Metal Worker
- Structural Iron and Steel Worker
- Certified Welding Instructor

Education, experience, and AWS certification provide for career advancement.

Welding: Shielded Metal Arc & Flux Core Arc

Starting Options

The following classes may be available at or through local high schools. Check with school for availability.

College Now/High School Articulation Courses:

- WLD 101 Shielded Metal Arc Welding Process (6 Cr)
- WLD 103 Flux Core Arc Welding Process (6 Cr)

Career Pathway Certificate

Welding: Shielded Metal Arc & Flux Core Arc

Length of Training:

Approximately 3 - 6 months (minimum 12 credits)

Classes:

- WLD 101 Shielded Metal Arc Welding Process (6 Cr)
- WLD 103 Flux Core Arc Welding Process (6 Cr)

Related Career Pathway Certificates

Six additional Welding Certificates are available. See pages 95-101.

One Year Certificate (AWS Entry Level Welding)

Welding

Length of Training:

Approximately 9 months (minimum 48 credits)

Classes:

Upon completion, trainee will receive a Certificate of Completion from AWS, qualifying them as a nationally recognized entry-level welder. Trainee is also qualified to test to become a Certified Welder with the American Welding Society (AWS).

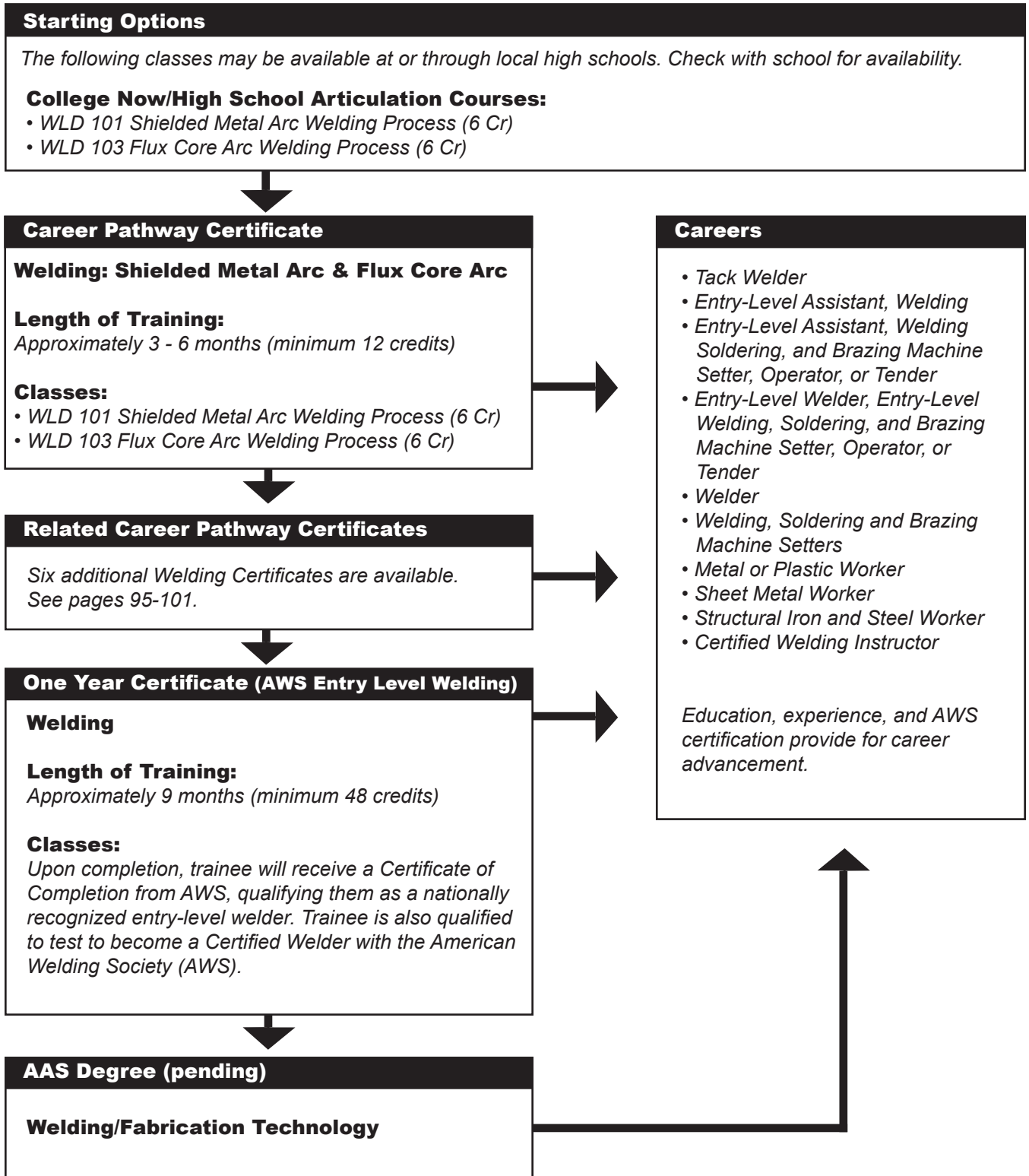
AAS Degree (pending)

Welding/Fabrication Technology

Careers

- Tack Welder
- Entry-Level Assistant, Welding
- Entry-Level Assistant, Welding Soldering, and Brazing Machine Setter, Operator, or Tender
- Entry-Level Welder, Entry-Level Welding, Soldering, and Brazing Machine Setter, Operator, or Tender
- Welder
- Welding, Soldering and Brazing Machine Setters
- Metal or Plastic Worker
- Sheet Metal Worker
- Structural Iron and Steel Worker
- Certified Welding Instructor

Education, experience, and AWS certification provide for career advancement.



CAREER PATHWAYS

Welding: Shielded Metal Arc & Gas Metal Arc

Starting Options

The following classes may be available at or through local high schools. Check with school for availability.

College Now/High School Articulation Courses:

- WLD 101 Shielded Metal Arc Welding Process (6 Cr)
- WLD 102 Gas Metal Arc Welding Process (6 Cr)

Career Pathway Certificate

Welding: Flux Core Arc & Gas Tungsten Arc

Length of Training:

Approximately 3 months (minimum 12 credits)

Classes:

- WLD 101 Shielded Metal Arc Welding Process (6 Cr)
- WLD 102 Gas Metal Arc Welding Process (6 Cr)

Related Career Pathway Certificates

Six additional Welding Certificates are available. See pages 95-101.

One Year Certificate (AWS Entry Level Welding)

Welding

Length of Training:

Approximately 9 months (minimum 48 credits)

Classes:

Upon completion, trainee will receive a Certificate of Completion from AWS, qualifying them as a nationally recognized entry-level welder. Trainee is also qualified to test to become a Certified Welder with the American Welding Society (AWS).

AAS Degree (pending)

Welding/Fabrication Technology

Careers

- Tack Welder
- Entry-Level Assistant, Welding
- Entry-Level Assistant, Welding Soldering, and Brazing Machine Setter, Operator, or Tender
- Entry-Level Welder, Entry-Level Welding, Soldering, and Brazing Machine Setter, Operator, or Tender
- Welder
- Welding, Soldering and Brazing Machine Setters
- Metal or Plastic Worker
- Sheet Metal Worker
- Structural Iron and Steel Worker
- Certified Welding Instructor

Education, experience, and AWS certification provide for career advancement.

Welding: Shielded Metal Arc & Gas Tungsten Arc

Starting Options

The following classes may be available at or through local high schools. Check with school for availability.

College Now/High School Articulation Courses:

- WLD 101 Shielded Metal Arc Welding Process (6 Cr)
- WLD 104 Gas Tungsten Arc Welding Process (6 Cr)

Career Pathway Certificate

Welding: Shielded Metal Arc & Flux Core Arc

Length of Training:

Approximately 3 - 6 months (minimum 12 credits)

Classes:

- WLD 101 Shielded Metal Arc Welding Process (6 Cr)
- WLD 104 Gas Tungsten Arc Welding Process (6 Cr)

Related Career Pathway Certificates

Six additional Welding Certificates are available. See pages 95-101.

One Year Certificate (AWS Entry Level Welding)

Welding

Length of Training:

Approximately 9 months (minimum 48 credits)

Classes:

Upon completion, trainee will receive a Certificate of Completion from AWS, qualifying them as a nationally recognized entry-level welder. Trainee is also qualified to test to become a Certified Welder with the American Welding Society (AWS).

AAS Degree (pending)

Welding/Fabrication Technology

Careers

- Tack Welder
- Entry-Level Assistant, Welding
- Entry-Level Assistant, Welding Soldering, and Brazing Machine Setter, Operator, or Tender
- Entry-Level Welder, Entry-Level Welding, Soldering, and Brazing Machine Setter, Operator, or Tender
- Welder
- Welding, Soldering and Brazing Machine Setters
- Metal or Plastic Worker
- Sheet Metal Worker
- Structural Iron and Steel Worker
- Certified Welding Instructor

Education, experience, and AWS certification provide for career advancement.



Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with a “♦” symbol.

ANT ANTHROPOLOGY

ANT 101
INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY
 (3.00 Lecture Hrs./Wk.) **3 Credits**

Students acquire basic knowledge of the processes of human evolution and variation. Primate and hominin evolution are surveyed. Students explore subjects relevant to human evolution such as Mendelian and population genetics, primatology, paleoarchaeology, and biological diversity in modern human populations. Special attention is given to the origins of cultural behavior in primates and culture's increasing flexibility and diversity as the Hominine line evolves.

SPRING 2019; FALL 2019

♦ **ANT 102**
INTRODUCTION TO ARCHAEOLOGY AND PREHISTORY
 (3.00 Lecture Hrs./Wk.) **3 Credits**

Students demonstrate knowledge of archaeological methods and theories including techniques used in gathering and interpreting data on past cultures, preservation of archaeological data, and dating techniques. The fundamentals of archaeology are taught within the context of a survey of prehistory from the Upper Paleolithic to the earliest state-level societies in Southwestern Asia, Africa, and Europe. Human culture is analyzed as an adaptive system that varies in relation to ecology and human need.

FALL 2018; WINTER 2020

♦ **ANT 103**
INTRODUCTION TO CULTURAL ANTHROPOLOGY
 (3.00 Lecture Hrs./Wk.) **3 Credits**

Students develop a basic understanding of the variety of cultures in the world, the sources of information used by cultural anthropologists, and an overview of ecological, functional and symbolic paradigms for understanding culture. Students examine the basic concepts of ethnocentrism, holism and cultural relativism, and learn about culture as a symbolic, dynamic, integrated, adaptive system of complex relationships.

WINTER 2019; SPRING 2020

APR APPRENTICESHIP

APR 130
PLUMBING APPRENTICESHIP LEVEL 1 PART 1
 (6.50 Lecture Hrs./Wk.) **6 Credits**

Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Working from the most current edition of the Plumbing-Heating-Cooling-Contractors' Assn (PHCC) curriculum, students will cover Lessons 1 - 7. General topics include history of plumbing codes and principles, basic tools and an introductory overview of the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

FALL 2018; SPRING 2019

APR 131
PLUMBING APPRENTICESHIP LEVEL 1 PART 2
 (6.50 Lecture Hrs./Wk.) **6 Credits**

Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Working from the most current edition of the Plumbing-Heating-Cooling-Contractors' Assn (PHCC) curriculum, students will cover Lessons 8 - 15. General topics include: piping materials, joining methods, basic math including squares, square roots and geometry, plumbing fixtures and working with building plans and drawings. Students will also use the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

FALL 2018; SPRING 2019

APR 180
PLUMBING APPRENTICESHIP LEVEL 2 PART 1
 (6.50 Lecture Hrs./Wk.) **6 Credits**

Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Working from the most current edition of the Plumbing-Heating-Cooling-Contractors' Assn (PHCC) curriculum, students will cover Lessons 1 - 16. General topics include: sources and distribution of potable water, water heaters, sewage disposal, drains and stacks. Students will also use the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

FALL 2018; SPRING 2019

APR 181
PLUMBING APPRENTICESHIP LEVEL 2 PART 2
 (6.50 Lecture Hrs./Wk.) **6 Credits**

Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Working from the most current edition of the Plumbing-Heating-Cooling-Contractors' Assn (PHCC) curriculum, students will cover Lessons 17 - 33. General topics include: working with rough-in sheets and drawings; soldering, cutting and welding; traos, and air in plumbing arenas. Students will also use the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

FALL 2018; SPRING 2019

APR 230
PLUMBING APPRENTICESHIP LEVEL 3 PART 1
 (6.50 Lecture Hrs./Wk.) **6 Credits**

Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Working from the most current edition of the Plumbing-Heating-Cooling-Contractors' Assn (PHCC) curriculum, students will cover Lessons 1 - 3. Genral topics include: pre-planning, residential fixtures and appliances; and, industrial fixtures and appliances Students will also use the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

FALL 2018; SPRING 2019

**APR 231
PLUMBING APPRENTICESHIP LEVEL 3 PART 2
(6.50 Lecture Hrs./Wk.)**

6 Credits

Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Working from the most current edition of the Plumbing-Heating-Cooling-Contractors' Assn (PHCC) curriculum, students will cover Lessons 4 - 7. General topics include: installation methods; fixture fittings and trims and installation; and, plan types and preparation. Students will also use the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

FALL 2018; SPRING 2019

**APR 280
PLUMBING APPRENTICESHIP LEVEL 4 PART 1
(6.50 Lecture Hrs./Wk.)**

6 Credits

Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Working from the most current edition of the Plumbing-Heating-Cooling-Contractors' Assn (PHCC) curriculum, students will cover Lessons 1 - 19. General topics include: service professionalism; leaks and drainage problems; types of service and repair; steam systems; Students will also use the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

FALL 2018; SPRING 2019

**APR 281
PLUMBING APPRENTICESHIP LEVEL 4 PART 2
(6.50 Lecture Hrs./Wk.)**

6 Credits

Designed for Oregon state-registered apprentices employed in the plumbing trade. This course provides an introduction to the necessary skills required for the plumbing trade. Working from the most current edition of the Plumbing-Heating-Cooling-Contractors' Assn (PHCC) curriculum, students will cover Lessons 20 - 41. General topics include: hot water systems; hydraulic and pump theory; blueprint review; code materials and referenced standards; and; plumbing system tests. Students will also use the Uniform Plumbing Code (UPC) with Oregon Amendments; administration, definitions and general regulations.

FALL 2018; SPRING 2019

ARCH ARCHITECTURE

**ARCH 215
HISTORY OF PACIFIC NORTHWEST ARCHITECTURE
(3.00 Lecture Hrs./Wk.)**

3 Credits

Students study Pacific Northwest regional building types, stylistic characteristics and architects. Students will explore the influence of political, social, environmental and economic impacts on architecture.

SPRING 2019; OFFERED EVERY OTHER YEAR

**ARCH 216
NORTHWEST ARCHITECTS
(3.00 Lecture Hrs./Wk.)**

3 Credits

An introduction to architects of the Pacific Northwest. Students will examine the lives, influences and contributions of the architects. They will explore stylistic characteristics of the architects' work and its social, environmental and economic impacts.

OFFERED AS NEEDED

ART ART

**ART 115
BASIC DESIGN I**

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students develop skills in effective visual communication through the study and practice of the basic principles of design. Students practice creative problem solving by completing hands-on creative projects with a focus on two dimensional formats; expand visual art vocabulary through group discussions, critiques, and written analyses; and gain a basic knowledge of the concepts underlying visual composition and formal theory in the visual arts.

FALL 2018, 2019

**ART 116
BASIC DESIGN II**

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students complete studio exercises exploring the basic elements and principles of three-dimensional design and continue to master the concepts underlying fundamental composition and formal theory in the visual arts. Students gain a fundamental understanding of vocabulary, function and applications of three-dimensional design concepts, and learn the processes of visual thinking and creative problem solving.

WINTER 2019, 2020

**ART 117
BASIC DESIGN III**

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students complete both two-and three-dimensional projects that demonstrate a growing understanding of the elements and principles of design with a special focus on color theory. Students explore the creative process within the context of select historical and contemporary art movements while developing skills in visual problem solving.

SPRING 2019, 2020

**ART 131
INTRODUCTION TO DRAWING I**

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students are introduced to the basic techniques and approaches to drawing with an emphasis on the development of perceptual skills and observational study. Assigned creative projects explore a variety of media, subject matter, and conceptual problems inspired by historical and contemporary artistic practice. Intro to Drawing series 131, 132, 133 may be taken in any sequence.

FALL 2018, 2019

**ART 132
INTRODUCTION TO DRAWING II**

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students are introduced to the basic techniques and approaches to drawing the human figure with an emphasis on the development of perceptual skills and observational study. Assigned creative projects explore a variety of media with a focus on proportion, foreshortening, anatomy, and the application of techniques inspired by historical and contemporary artistic practice. Intro to Drawing series 131, 132, 133 may be taken in any sequence.

WINTER 2019, 2020

ART 133**INTRODUCTION TO DRAWING III****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students are introduced to the basic techniques and approaches to drawing with an emphasis on the development of meaningful content and personal expression. Assigned creative projects are inspired by historical and contemporary artistic practice, and explore a variety of media, as well as thematic development and organization of the picture plane. Intro to Drawing series 131, 132, 133 may be taken in any sequence.

SPRING 2019, 2020**ART 161****INTRODUCTION TO PHOTOGRAPHY I****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students learn the fundamentals of operating cameras and producing prints, using both traditional photochemical and contemporary digital technologies. They learn the basics of composition, editing, and expressive use of studio and natural lighting. They study the breadth of contemporary and historical photography and its role in our society. Students cultivate creative processes and study critiquing. Students produce a photo essay on a coherent theme. This class begins the foundations for doing fine arts, professional/commercial, and personal photography.

Prerequisite: ART 115 recommended.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****ART 162****INTRODUCTION TO PHOTOGRAPHY II****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Building from the fundamentals of ART 161, students learn to do effective camera work in a wider variety of conditions and to be able to make custom quality prints, working in their choice of digital black-and-white or color, or traditional darkroom prints. They learn standard studio lighting. Students produce a photo essay. They study the breadth of contemporary and historical photography and its role in our society. Students cultivate creative processes and study critiquing. This class builds the foundations for doing fine arts, professional/commercial, and personal photography.

Prerequisite: ART 161.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****ART 163****INTRODUCTION TO PHOTOGRAPHY III****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Building from the skills of ART 162, students complete learning the use of the full range of camera controls and lenses in a variety of situations. They learn more sophisticated techniques of lighting, digital file capture and processing, and, for those interested, fine arts archival printing in the traditional darkroom. Students undertake an assignment for a publication story or an themed exhibit, and complete it as a digital publication. Digital files and prints are prepared for exhibit or publication. They study the breadth of contemporary and historical photography and its role in our society. Students cultivate creative processes and study critiquing. This class strengthens the foundations for doing fine arts, professional/commercial, and personal photography.

Prerequisite: ART 162.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****ART 194****INTRODUCTION TO WATERCOLOR I****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students learn the techniques and use of watercolor with special attention to its characteristics as a painting medium. Recommended basic transfer course for landscape architecture and, in most cases provides transfer credit toward studio art elective requirements.

SPRING 2019**ART 195****INTRODUCTION TO WATERCOLOR II****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students improve their technique and use of watercolor with special attention to its characteristics as a painting medium. Recommended basic transfer course for landscape architecture and, in most cases, provides transfer credit toward studio art elective requirements.

OFFERED AS NEEDED**ART 196****INTRODUCTION TO WATERCOLOR III****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students develop the techniques and use of transparent watercolor for rendering still life, portraiture and landscape. Recommend basic course for landscape architecture and, in most cases, provides transfer credit toward studio art electives requirement.

OFFERED AS NEEDED**ART 204****HISTORY OF WESTERN ART I****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn to appreciate and enjoy art, explore Western styles, and relate specific works of art to each other and the ideas that animated the life of their times. This course provides a historical survey of the visual arts in the Western world from the Egyptian through the Romanesque periods.

WINTER 2019; OFFERED AS NEEDED**ART 205****HISTORY OF WESTERN ART II****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn to appreciate and enjoy art, explore Western styles, and relate specific works of art to each other and the ideas that animated the life of their times. This course provides a historical survey of the visual arts in the Western world from the Gothic to the Baroque periods.

SPRING 2019; OFFERED AS NEEDED**ART 206****HISTORY OF WESTERN ART III****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students have the opportunity to appreciate and enjoy art, explore Western styles, and relate specific works of art to each other and the ideas that animated the life of their times. This course provides a historical survey of the visual arts in the Western world from the Rococo period through the 20th Century.

OFFERED AS NEEDED

ART 225

COMPUTER GRAPHICS I

(2.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students are introduced to the theory and use of digital media in the design process. Students use a variety of tools and techniques for visual communication including typography, page layout, digital imaging and three-dimensional modeling. Design principles and concepts, creative use of media and critical analysis of work are emphasized.

WINTER 2019, 2020

ART 226

COMPUTER GRAPHICS II

(2.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students continue to develop the use of tools and techniques of computer graphics in the design process. Students engage more advanced aspects of composition, digital imaging, three-dimensional modeling, rendering and animation. Creative problem solving, concept development, design applications and communication issues are explored.

Prerequisite: ART 225.**SPRING 2019, 2020**

ART 228

PORTFOLIO DEVELOPMENT

(2.00 Lecture/Lab Hrs./Wk.)

1 Credit

Introduction to design and creation of an artist's portfolio. Students will organize, document and describe a body of their work and create and present a high quality portfolio.

OFFERED AS NEEDED

ART 231

DRAWING – INTERMEDIATE I

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students deepen understanding of the creative process through the study of historical and contemporary art in addition to studio practice. Studio course with an emphasis on the development of concepts and techniques of drawing with increasing sophistication. Students build a personal portfolio that reveals the beginning of an internal search for meaning/content, personal style, and individual expression.

Prerequisite: ART 133 or instructor approval. Intermediate Drawing series 231, 232, 233 may be taken in any sequence.**FALL 2018, 2019**

ART 232

DRAWING – INTERMEDIATE II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students further deepen understanding of the creative process through the study of historical and contemporary art in addition to studio practice. Studio course with an emphasis on the development of concepts and techniques of figure drawing with increasing skill and sophistication. Students continue building a personal portfolio that reveals the beginning of an internal search for meaning/content, personal style, and individual expression.

Prerequisite: ART 133. Intermediate Drawing series 231, 232, 233 may be taken in any sequence.**WINTER 2019, 2020**

ART 233

DRAWING – INTERMEDIATE III

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students continue to deepen understanding of the creative process through the study of historical and contemporary art in addition to studio practice. Studio course with an emphasis on the development of concepts and techniques of drawing with increasing sophistication. Students continue building a personal portfolio that reveals the beginning of an internal search for meaning/content, personal style, and individual expression.

Prerequisite: ART 133 or instructor approval. Intermediate Drawing series 231, 232, 233 may be taken in any sequence.**SPRING 2019, 2020**

ART 250

INTRODUCTION TO CERAMICS I

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

The student will develop basic skills in ceramics including clay preparation, throwing on the wheel, hand-building, and glaze application.

FALL 2018, 2019

ART 251

INTRODUCTION TO CERAMICS II

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

The student will develop basic skills in ceramics including clay preparation, throwing, hand building, glaze application, mixing and applying engobes, stains, and slips.

WINTER 2019, 2020

ART 252

INTRODUCTION TO CERAMICS III

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

The student will develop basic skills in ceramics including clay preparation, throwing, hand building, glaze application, mixing and applying engobes, stains, and slips. The student will develop skill in the use of various methods of surface treatments on clay forms, such as stamping, sgraffito, carving, distortion of form, and clay additions.

SPRING 2019, 2020

ART 253

CERAMICS – INTERMEDIATE I

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

The student will have the opportunity to further develop the techniques learned in Introduction to Ceramics and will research clay bodies and glazes. The student will understand kiln building, firing methods and advanced techniques in hand-building, throwing, and surface decoration.

Prerequisite: ART 250, 251 or 252, or instructor approval.**FALL 2018, 2019**

ART 253A

ATMOSPHERIC FIRING (CERAMICS)

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Experienced ceramics students will explore the results of firing clay using atmospheric firing processes such as Wood, Raku, and Sager firing.

Prerequisite: ART 251, 252 or 253, or instructor approval.**OFFERED AS NEEDED**

ART 254**CERAMICS – INTERMEDIATE II****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

The student will apply the techniques learned in Introduction to Ceramics and develop skill in researching clay bodies and glazes. The student will understand kiln building, firing methods and advanced techniques in hand-building, throwing, and surface decoration.

Prerequisite: ART 250, 251 or 252, or instructor approval.

WINTER 2019, 2020

ART 255**CERAMICS – INTERMEDIATE III****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

The student will further develop the techniques learned in Introduction to Ceramics and will research clay bodies and glazes. The student will understand kiln building, firing methods and advanced techniques in hand-building, throwing, and surface decoration.

Prerequisite: ART 250, 251 or 252, or instructor approval.

SPRING 2019, 2020

ART 270**INTRODUCTION TO PRINTMAKING I****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students learn several popular printmaking techniques including woodcut, monoprint and intaglio. They explore the medium while studying contemporary art history and creating original prints. This course may be taken on its own or as the first in a year-long sequence recommended for students preparing for architecture, interior architecture and graphic design programs.

Prerequisite: None, but drawing and design classes are recommended.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

ART 271**INTRODUCTION TO PRINTMAKING II****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students develop skill in popular printmaking techniques such as woodcut, monoprint and/or intaglio while creating original fine art prints. They explore the medium and the creative process while participating in lectures, studio projects and group critiques.

Prerequisite: None, but drawing or design classes are recommended.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

ART 272**INTRODUCTION TO PRINTMAKING III****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students further develop knowledge of and skill in popular printmaking techniques including woodcut, monoprint and/or intaglio while creating original fine art prints. They explore the medium and creative process while building a body of work.

Prerequisite: None, but drawing or design classes are recommended.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

ART 273**PRINTMAKING – INTERMEDIATE****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students develop their printmaking skills by applying the techniques learned in introductory printmaking classes. They complete independent studio work that contributes to a personal portfolio and practice professional skills such as documenting and critically evaluating their artwork.

Prerequisites: ART 270, 271 & 272 or instructor approval.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

ART 274**PRINTMAKING – INTERMEDIATE II****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students continue to develop skills in printmaking by applying the techniques learned in introductory printmaking classes. They complete independent work that contributes to a personal portfolio and develop professional practice by documenting, presenting, and critically evaluating their artwork.

Prerequisites: ART 270, 271 & 272 or instructor approval.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

ART 275**PRINTMAKING – INTERMEDIATE III****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students apply the techniques learned in introductory and intermediate level printmaking classes to complete independent work that contributes to a personal portfolio and to practice professional skills such as creating editions and documenting, presenting, and critically evaluating their artwork. The term culminates with a group critique and a body of original artwork.

Prerequisites: ART 273 or 274 or instructor approval.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

ART 276**INTRODUCTION TO SCULPTURE I****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Student develop skill in basic portrait study emphasizing construction of facial features and form, and finishing sculptural processes.

OFFERED AS NEEDED

ART 277**INTRODUCTION TO SCULPTURE II****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students develop skill in techniques of sculpture involving basic figure study emphasizing construction of human features.

OFFERED AS NEEDED

ART 278**INTRODUCTION TO SCULPTURE III****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students develop skill in techniques of soapstone carving emphasizing form, carving techniques, and finishing sculptural processes.

OFFERED AS NEEDED

ART 281**INTRODUCTION TO PAINTING I****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students are introduced to the basic techniques and approaches to oil and/or acrylic painting, with an emphasis on working directly from life/direct observation (still life, landscape, and the human figure). Assigned creative projects explore the interrelationships between painting materials, techniques, formal elements and principles, and cognitive meaning inspired by historical and contemporary artistic practice.

Prerequisite: None, but drawing and design classes are strongly recommended.

FALL 2018, 2019

ART 282
INTRODUCTION TO PAINTING II

(6.00 Lecture/Lab Hrs./Wk.) **3 Credits**

Students continue to develop techniques and approaches to oil and/or acrylic painting investigating a range of subject matter including still life, landscape, the human figure, and abstraction. Assigned creative projects explore the interrelationships between painting materials, techniques, formal elements and principles, and cognitive meaning inspired by historical and contemporary artistic practice.

Prerequisite: None, but drawing and design classes are strongly recommended. Intro to Painting series 281, 282, 283 may be taken in any sequence.

WINTER 2019, 2020

ART 283
INTRODUCTION TO PAINTING III

(6.00 Lecture/Lab Hrs./Wk.) **3 Credits**

Students continue to develop techniques and approaches to oil and/or acrylic painting in which students investigate meaning/content and the possibility of developing a personal style. Assigned creative projects explore the interrelationships between painting materials, techniques, formal elements and principles, and cognitive meaning inspired by historical and contemporary artistic practice.

Prerequisite: None, but drawing and design classes are strongly recommended. Intro to Painting series 281, 282, 283 may be taken in any sequence.

SPRING 2019, 2020

ART 284
PAINTING – INTERMEDIATE I

(6.00 Lecture/Lab Hrs./Wk.) **3 Credits**

Students deepen understanding of the creative process through the study of historical and contemporary art in addition to studio practice. Students continue building a personal portfolio that reveals the beginning of an internal search for meaning/content, personal style, and individual expression. Studio course with an emphasis on the development of concepts and techniques of painting with increasing sophistication.

Prerequisite: ART 283 or instructor approval. Intermediate Painting series 284, 285, 286 may be taken in any sequence.

FALL 2018, 2019

ART 285
PAINTING – INTERMEDIATE II

(6.00 Lecture/Lab Hrs./Wk.) **3 Credits**

Students continue to deepen understanding of the creative process through the study of historical and contemporary art in addition to studio practice. Students continue building a personal portfolio that reveals the beginning of an internal search for meaning/content, personal style, and individual expression. Studio course with an emphasis on the development of concepts and techniques of painting with increasing sophistication.

Prerequisite: ART 283 or instructor approval. Intermediate Painting series 284, 285, 286 may be taken in any sequence.

WINTER 2019, 2020

ART 286
PAINTING – INTERMEDIATE III

(6.00 Lecture/Lab Hrs./Wk.) **3 Credits**

Students continue building a personal portfolio that reveals the beginning of an internal search for meaning/content, personal style, and individual expression. Studio course with an emphasis on the development of concepts and techniques of painting with increasing sophistication.

Prerequisite: ART 283 or instructor approval. Intermediate Painting series 284, 285, 286 may be taken in any sequence.

SPRING 2019, 2020

ART 291
SCULPTURE – INTERMEDIATE I

(6.00 Lecture/Lab Hrs./Wk.) **3 Credits**

Student will develop skill in basic portrait study emphasizing construction of facial features and form, and finishing sculptural processes.

Prerequisite: ART 276, 277, or 278, or instructor approval.

OFFERED AS NEEDED

ART 292
SCULPTURE – INTERMEDIATE II

(6.00 Lecture/Lab Hrs./Wk.) **3 Credits**

Students continue to develop skill in techniques of sculpture involving basic figure study emphasizing construction of human features.

Prerequisite: ART 276, 277 or 278, or instructor approval.

OFFERED AS NEEDED

ART 293
SCULPTURE - INTERMEDIATE III

(6.00 Lecture/Lab Hrs./Wk.) **3 Credits**

Students continue to develop skill in techniques of soapstone carving emphasizing form, carving techniques, and finishing sculptural processes. Students will apply techniques introduced in introductory sculpture-stone carving.

Prerequisite: ART 276, 277 or 278, or instructor approval.

OFFERED AS NEEDED

ART 294
WATERCOLOR – INTERMEDIATE I

(6.00 Lecture/Lab Hrs./Wk.) **3 Credits**

Students complete projects that apply their knowledge of watercolor painting techniques, concepts, and theories of expression. Students complete independent work that contributes to their personal portfolio.

Prerequisite: ART 194, 195, 196 or instructor approval.

OFFERED AS NEEDED

ART 295
WATERCOLOR – INTERMEDIATE II

(6.00 Lecture/Lab Hrs./Wk.) **3 Credits**

Students complete watercolor paintings that demonstrate individual variations of technique. Students complete independent work that contributes to their personal portfolio.

Prerequisite: ART 194, 195, 196 or instructor approval.

OFFERED AS NEEDED

ART 296**WATERCOLOR – INTERMEDIATE III****(6.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students complete watercolor paintings, which demonstrate skill in composition and incorporate theories of expression. Students complete independent work that contributes to their personal portfolio.

Prerequisite: ART 194, 195, 196 or instructor approval.

OFFERED AS NEEDED

ASL AMERICAN SIGN LANGUAGE**ASL 101****AMERICAN SIGN LANGUAGE I****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn basic ASL vocabulary, grammatical structures and conversational behaviors. Students are introduced to cultural values, beliefs, and behavioral norms shared by those within the deaf community. This course focuses in the language widely used by deaf Americans.

FALL 2018, 2019

ASL 102**AMERICAN SIGN LANGUAGE II****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students improve their skills in vocabulary, grammatical structures and conversational behavior. Special focus will be given to developing more awareness of the cultural values and beliefs shared by the deaf community.

Prerequisite: ASL 101 or instructor approval.

WINTER 2019, 2020

ASL 103**AMERICAN SIGN LANGUAGE III****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students continue to increase their skills in vocabulary, grammatical structures and in-depth cultural awareness. Cultural information centers upon the ways in which hearing people can work with deaf people to establish culturally appropriate relationships.

Prerequisite: ASL 102 or instructor approval.

SPRING 2019, 2020

ASL 201**AMERICAN SIGN LANGUAGE-CONVERSATIONAL SKILLS****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students improve and maintain their conversational ASL skills. Students will learn additional sign vocabulary, grammar concepts, and further develop conversational skills. In addition, ASL idiomatic signs will be presented. Students may also work on projects such as poems, songs, and choral works.

Prerequisite: ASL 103 or instructor approval.

OFFERED AS NEEDED

AUTO AUTOMOTIVE TECHNOLOGY

Other Automotive courses listed under Industrial and Manufacturing Technology (IT)

AUTO 101**INTRODUCTION TO AUTOMOTIVE TECHNOLOGY****(80.00 Lecture/Lab Hrs. Total)****4 Credits**

Students learn how to operate general shop equipment and tools; identify and respond to safety hazards; gather automotive service information effectively; and perform basic entry level tasks and repairs.

FALL 2018, 2019

AUTO 108**ENGINE FUNDAMENTALS AND REPAIR****(80.00 Lecture/Lab Hrs. Total)****4 Credits**

Students learn the operational theory, types and designs, and internal details of automotive internal combustion engines. Hands-on disassembly, measurement, evaluation, and proper reassembly will be stressed.

Prerequisite: AUTO 101.

FALL 2018, 2019

AUTO 120**STEERING AND SUSPENSION I****(80.00 Lecture/Lab Hrs. Total)****4 Credits**

Students learn the basic components, design, and operation of steering and suspension systems. Tires, wheels, shocks, struts, springs, steering gears and linkages, frame designs, and other components are covered. Many common shop tasks will be utilized and performed.

Prerequisite: AUTO 101.

SPRING 2019, 2020

AUTO 125**ELECTRICAL/ELECTRONICS I****(80.00 Lecture/Lab Hrs. Total)****4 Credits**

Students learn the foundations of automotive electrical/electronic system operation, components, tools, circuit types and theory. Batteries, starting systems, and vehicle electrical base distribution will be emphasized in hands-on tasks and classroom exercises.

Prerequisite: AUTO 101.

WINTER 2019, 2020

AUTO 130**BRAKE SYSTEMS I****(80.00 Lecture/Lab Hrs. Total)****4 Credits**

Students learn the design, components, operation, and service of modern automotive brake systems. Common brake shop tasks and service procedures are utilized throughout the course of instruction.

Prerequisite: AUTO 101.

WINTER 2019, 2020

AUTO 135**ELECTRICAL/ELECTRONICS II****(80.00 Lecture/Lab Hrs. Total)****4 Credits**

Building on the concepts from Electrical/Electronics I, the student will move into operation and diagnosis of vehicle charging systems, lighting systems, power windows and locks, heated accessories, and HVAC controls. Proper R&R and care of trim is addressed.

Prerequisite: AUTO 125.

SPRING 2019, 2020

AUTO 209
FLUID DRIVES & HYDRAULIC TRANSMISSIONS
(80.00 Lecture/Lab Hrs. Total) 4 Credits
 Students will learn the fundamentals of today's automatic and manual transmissions, transaxles, 4-Wheel Drive & All Wheel Drive systems, and differential operations. In addition, the course will focus on the electrical, computer, and mechanical controls over various transmissions, transfer case, AWD and final drive systems.
SPRING 2019, 2020

AUTO 210
ADVANCED STEERING, SUSPENSION, AND BRAKES
(80.00 Lecture/Lab Hrs. Total) 4 Credits
 Building on the fundamentals of Brake Systems I and Steering and Suspension I, students learn diagnosis of steering, suspension, and brake problems, ABS (anti-lock brake) systems and service, and wheel alignment procedures.
Prerequisite: AUTO 120 and 130.
FALL 2018, 2019

AUTO 224
ENGINE PERFORMANCE I
(80.00 Lecture/Lab Hrs. Total) 4 Credits
 Students learn the basic functions and operations of electronic fuel control and emissions components and systems. Initial testing and observation of systems operation using scan tools and other diagnostic equipment will be stressed.
Prerequisites: AUTO 125 and completion of, or concurrent enrollment in, AUTO 229.
FALL 2018, 2019

AUTO 229
ENGINE DIAGNOSIS AND SERVICE
(80.00 Lecture/Lab Hrs. Total) 4 Credits
 Students gain competence and demonstrate knowledge of engine problem diagnosis as it relates to lubrication, cooling and internal mechanical systems. Research (service information), testing and problem solving will be stressed.
Prerequisite: AUTO 108.
SPRING 2019, 2020

AUTO 230
AUTOMOTIVE HVAC
(80.00 Lecture/Lab Hrs. Total) 4 Credits
 Students learn the basic components, operation, diagnosis, and repair of vehicle A/C-heater (HVAC) systems. Basic A/C theory, as well as refrigerant handling, component replacement, and system diagnosis will be covered.
Prerequisite: AUTO 125.
WINTER 2019, 2020

AUTO 234
ENGINE PERFORMANCE II
(80.00 Lecture/Lab Hrs. Total) 4 Credits
 Building on the basics from Engine Performance I, students delve deeper into computer controlled fuel and emission systems diagnosis and testing. Extensive testing using scan tools, exhaust analyzer, engine/ignition analyzer and oscilloscope will be performed.
Prerequisite: AUTO 224.
WINTER 2019, 2020

BA 101
INTRODUCTION TO BUSINESS
(4.00 Lecture Hrs./Wk.) 4 Credits
 Students survey the U.S. business system, economics, e-commerce, ethical behavior, regulatory laws, stakeholder responsibility, competing in the global economy, forms of ownership, starting and financing a business, human relations in business, roles of management and leadership, organizing and working in teams, human resources, production, marketing, financial management, investment, accounting, and information systems.
FALL 2018, 2019

BA 131
ACCOUNTING PROCEDURES I
(3.00 Lecture Hrs./Wk.) 3 Credits
 Students prepare to perform simple accounting in service organizations emphasizing the accounting cycle, banking procedures, and payroll accounting. This is the first course of a sequence in which students learn to organize financial information and prepare financial reports. This course emphasizes bookkeeping basics.
FALL 2018, 2019

BA 132
ACCOUNTING PROCEDURES II
(3.00 Lecture Hrs./Wk.) 3 Credits
 Students learn to perform accounting tasks in merchandising organizations including special journals and ledgers; purchases and sales; inventory and prepaid expenses; tangible long-lived assets; and notes receivables. This course emphasizes bookkeeping basics.
Prerequisite: BA 131 with a "C" grade or better, or instructor approval.
WINTER 2019, 2020

BA 141
TECHNICIAN CUSTOMER SVC SKILLS
(2.00 Lecture Hrs./Wk.) 2 Credits
 Students build the knowledge, attitudes, and skills needed for delivering outstanding customer service, employing public relation skills, applying effective listening skills, resolving conflict, and using communication devices. Students identify external and internal customers, learn to handle potentially unproductive interactions, and create positive outcomes for all customers.
Prerequisite: See advisor for placement score approval.
OFFERED AS NEEDED

BA 177
PAYROLL & BUSINESS TAX ACCOUNTING
(3.00 Lecture Hrs./Wk.) 3 Credits
 Students develop the knowledge and skills needed to complete payroll forms and records and to comply with federal and state requirements.
FALL 2018, 2019

BA 206
MANAGEMENT FUNDAMENTALS
(3.00 Lecture Hrs./Wk.) 3 Credits
 Students are introduced to the fundamental principles of management as a framework for managerial thinking and operating. A survey of the management functions of planning, organizing, leading, and controlling. A study of organizational interaction and human behavioral conflicts.
Prerequisite: BA 101 recommended.
FALL 2018, 2019

BA 211
PRINCIPLES OF ACCOUNTING I
 (4.00 Lecture Hrs./Wk.) **4 Credits**
 Students learn to use basic accounting concepts and procedures including the accounting cycle and dealing with cash, receivables, and merchandise inventories. Students will also become familiar with a commonly used computerized accounting program or spreadsheet. This is first course in a year-long sequence intended for students who are planning to transfer to a four-year college.
FALL 2018, 2019

BA 212
PRINCIPLES OF ACCOUNTING II
 (4.00 Lecture Hrs./Wk.) **4 Credits**
 Students learn to use accounting concepts and procedures required to prepare cash flow statements and manage tangible and intangible assets; payroll; partnerships and corporations; long-term investments and liabilities; stocks; and bonds. Students demonstrate knowledge of professional accounting standards. Students will become familiar with a commonly used computerized accounting program or spreadsheet.
Prerequisite: BA 211 with a "C" grade or better or instructor approval.
WINTER 2019, 2020

BA 213
PRINCIPLES OF ACCOUNTING III
 (4.00 Lecture Hrs./Wk.) **4 Credits**
 Students demonstrate an understanding of the use of internal accounting data to direct the affairs of businesses, i.e., managerial accounting. Students will also become familiar with a commonly used accounting program or spreadsheet.
SPRING 2019, 2020

BA 214
BUSINESS COMMUNICATION
 (4.00 Lecture Hrs./Wk.) **4 Credits**
 Students demonstrate the ability to prepare memos, letters, and informal reports; conduct research; and prepare analytical business and/or technical reports.
Prerequisite: See advisor for placement score approval or OA 104; or instructor approval. Recommended keyboarding of 20+ words per minute.
FALL 2018, 2019

BA 218
PERSONAL FINANCE
 (2.00 Lecture Hrs./Wk.) **2 Credits**
 Students develop personal financial skills to help them make better personal monetary decisions.
SPRING 2019, 2020

BA 223
PRINCIPLES OF MARKETING
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students demonstrate knowledge of the basic issues and practices in marketing management including marketing strategy planning. Students design a marketing mix.
Prerequisite: BA 101 recommended.
WINTER 2019, 2020

BA 224
HUMAN RESOURCE MANAGEMENT
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students demonstrate knowledge of principles and techniques related to managing human resources emphasizing hiring practices, training and employee development, and personnel management.
Prerequisite: BA 101 recommended.
WINTER 2019, 2020

BA 226
INTRODUCTION TO BUSINESS LAW I
 (4.00 Lecture Hrs./Wk.) **4 Credits**
 Students demonstrate a basic knowledge of law and its origins, court systems, legal rights and duties, formation of contracts, operation and discharge of contracts, law of sales of goods, and bailments.
SPRING 2019, 2020

BA 228
AUTOMATED ACCOUNTING
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students demonstrate the ability to use an integrated accounting program to perform accounting functions and solve problems including general ledger, accounts receivable, accounts payable, and inventory.
Prerequisite: BA 131 or 211, or instructor approval.
SPRING 2019, 2020

BA 249
RETAILING
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students will study and develop general sales techniques involving the factors of successful selling of retail goods and service including retail buying motives, sales psychology, customer approach, and retail sales.
OFFERED AS NEEDED

BA 250
SMALL BUSINESS MANAGEMENT
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students demonstrate knowledge of managing the small business enterprise, emphasizing its general functions, procedures, and problems.
Prerequisite: BA 101 or business experience with instructor approval.
WINTER 2019, 2020

BA 285
HUMAN RELATIONS IN BUSINESS
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students demonstrate an understanding of the communication aspects of interpersonal behavior including perception, power and influence, group dynamics, conflict, and motivation that are essential for success in the workplace and with friends and family.
FALL 2018, 2019

BA 295A
ACCOUNTING DIRECTED PROJECT
 (2.00 Lecture & 6.00 Lab Hrs./Wk) **4 Credits**
 Students build on knowledge gained in other courses and use critical thinking and problem solving skills to address a significant problem in accounting. Students complete a comprehensive project and make a professional presentation.
Prerequisite: Completion of all but the last quarter of program course work.
SPRING 2019, 2020

BA 295M**BUSINESS MANAGEMENT DIRECTED PROJECT****(2.00 Lecture & 6.00 Lab Hrs./Wk)****4 Credits**

Students build on knowledge gained in other courses and use critical thinking and problem solving skills to address a significant problem in management. Students complete a comprehensive project and make a professional presentation.

Prerequisite: Completion of all but the last quarter of program course work.

SPRING 2019, 2020**BI BIOLOGY****BI 101****GENERAL BIOLOGY - EMPHASIS ON ECOLOGY****(3.00 Lecture, 3.00 Lab Hrs./Wk.)****4 Credits**

Students learn and apply fundamental science processes, learn major concepts of contemporary biology and, work toward developing science literacy as an educated citizen. Students investigate changes that have occurred in a number of significant regional ecosystems over the past two hundred years, especially human induced changes, and forces driving further potential changes in these systems over the next half century. Students complete several investigations both in and out of lab and report on these investigations. Biology 101 involves four or five field trips. This is a survey course for non-major students seeking to fulfill a lab science general education requirement.

Prerequisite: College level reading. WR 121 and MTH 60 are recommended as Co- or Prerequisites.

FALL 2018, 2019**BI 102****GENERAL BIOLOGY - EMPHASIS ON BIOLOGICAL DIVERSITY****(3.00 Lecture, 3.00 Lab Hrs./Wk.)****4 Credits**

Students use basic scientific methods to analyze cell diversity; cell division and proliferation; behavior of cell types; introductory genetics; nature of evolution, natural selection, and origin of species. Upon completion, students explore and formulate descriptions, predictions, and explanations based on scientific data. This is a survey course for non-major students seeking to fulfill a lab science general education requirement. The BI 101, 102, 103 sequence need not be taken in order.

Prerequisite: College level reading and MTH 60 or higher. A previous biology class and WR 121 Co- or Prerequisite are recommended.

WINTER 2019, 2020**BI 103****GENERAL BIOLOGY - EMPHASIS ON BEHAVIOR****(3.00 Lecture, 3.00 Lab Hrs./Wk.)****4 Credits**

Students investigate fundamental science processes and life science concepts with a primary focus on vertebrates and behavioral biology to apply basic scientific methods in an evolutionary approach. Topics include exploration of organism interactions, ecology, diversity, evolutionary relationships, and comparisons of biological systems. Students complete a number of inquiry-based investigations to gather and communicate information. Designed for non-major students seeking to fulfill a general science requirement; sequence need not be taken in order. Includes mandatory early morning laboratory field trips.

Prerequisite: College level reading. WR 121 and MTH 60 or higher are recommended as Co or Prerequisites.

SPRING 2019, 2020**BI 143****MARINE BIOLOGY****(3.00 Lecture, 3.00 Lab Hrs./Wk.)****4 Credits**

Students learn and apply fundamental science processes, learn major concepts of contemporary biology and, work toward developing science literacy as an educated citizen while investigating physical, chemical, and biological features of marine environments. Students examine major groups of marine protists, plants and animals, and interactions within and between these groups. Students conduct studies of Pacific Northwest intertidal and estuarine ecosystems and research and report on human impacts on local and worldwide marine ecosystems.

Prerequisite: WR 121, MTH 60 or higher with a grade of P or C or better, or instructor approval.

OFFER AS NEEDED**BI 211****PRINCIPLES OF BIOLOGY I****(4.00 Lecture, 3.00 Lab Hrs./Wk.)****5 Credits**

Students learn fundamental science processes and major concepts of contemporary biology. The course serves largely as a platform for students majoring in life science, natural resources studies or pre-professional programs such as pre-medicine, pre-veterinary, physical therapy, etc. It also meets science general education requirements at most upper level colleges and universities. Students develop skills basic to science investigation, abilities using standard lab equipment, concepts essential for an understanding of modern biology, and an awareness of roles and relationships between science and the rest of society. BI 211 emphasizes an inquiry into fundamental properties of life, cell structure and function, biological energy transformations, and cell life cycles. Students explore prokaryotic and fungal diversity.

Prerequisite: High school biology and chemistry or instructor approval. MTH 95 or equivalent.

FALL 2018, 2019**BI 212****PRINCIPLES OF BIOLOGY II****(4.00 Lecture, 3.00 Lab Hrs./Wk.)****5 Credits**

Students continue to learn fundamental science processes and major concepts of contemporary biology. Like other courses in the sequence, the course serves largely as a platform for students majoring in life science, natural resources studies or pre-professional programs such as pre-medicine, pre-veterinary, pre-physical therapy, etc. It also meets science general education requirements at most upper level colleges and universities. Students develop skills basic to science investigation, abilities using standard lab equipment, concepts essential for an understanding of modern biology, and an awareness of roles and relationships between science and the rest of society. Course content focuses on genetics, evolution, and chordate phylogeny and diversity.

Prerequisite: BI 211 or instructor approval.

WINTER 2019, 2020

BI 213**PRINCIPLES OF BIOLOGY III****(4.00 Lecture, 3.00 Lab Hrs./Wk.)****5 Credits**

Students continue to learn fundamental science processes and major concepts of contemporary biology. The course serves largely as a platform for students majoring in life science, natural resources studies or pre-professional programs such as pre-medicine, pre-veterinary, pre-physical therapy, etc. It also meets science general education requirements at most upper level colleges and universities. This course helps students develop skills basic to science investigation, abilities using standard lab equipment, concepts essential for an understanding of modern biology, and an awareness of roles and relationships between science and the rest of society. BI 213 emphasizes an inquiry into plant and animal form and function, plant diversity and principles of ecology.

Prerequisite: BI 212 or instructor approval.**SPRING 2019, 2020****BI 222****HUMAN GENETICS****(3.00 Lecture, Hrs./Wk.)****3 Credits**

Students will investigate principles and patterns of Mendelian inheritance, population genetics and molecular genetics while focusing on human heredity. Upon completion, students think critically and logically to evaluate and analyze relationships associated with emerging genetic technologies.

Prerequisite: A previous biology class and MTH 60 or instructor approval.**SPRING 2019, 2020****BI 231****HUMAN ANATOMY AND PHYSIOLOGY I****(3.00 Lecture, 3.00 Lab Hrs./Wk.)****4 Credits**

Students begin this 3 term sequence by studying the form and function of the dynamic human body which is required for health service occupations and further study in the biological sciences. Students master knowledge and concepts in the organization of the human body, homeostasis, cells and tissues, the skeletal and muscular systems, intro to the nervous system and the special senses. Instruction occurs in the classroom and online through supplemental material.

Prerequisite: Needs a grade of C or better in GS 112, BI 112, BI 211 or instructor permission.**FALL 2018, 2019****BI 232****HUMAN ANATOMY AND PHYSIOLOGY II****(3.00 Lecture, 3.00 Lab Hrs./Wk.)****4 Credits**

Reviewing concepts and knowledge of the nervous system, endocrine system and cardiovascular systems, students learn the form and function of the dynamic human body which is required for health service occupations and further study in the biological sciences. Emphasis is placed on the connectivity of body fluids and electrolytes as well as communication between tissues. Instruction occurs in the classroom and online through supplemental material.

Prerequisite: BI 231 with a C or better, or instructor permission.**WINTER 2019, 2020****BI 233****HUMAN ANATOMY AND PHYSIOLOGY III****(3.00 Lecture, 3.00 Lab Hrs./Wk.)****4 Credits**

Students master knowledge and concepts of the lymphatic system, the respiratory system, the gastrointestinal system, the renal system, heredity, development and reproduction. Students learn the form and function of the dynamic human body which is required for health service occupations and further study in the biological sciences. Instruction occurs in the classroom and online through supplemental material.

Prerequisite: BI 232 with a C or better.**SPRING 2019, 2020****BI 234****INTRODUCTION TO MICROBIOLOGY****(3.00 Lecture, 3.00 Lab Hrs./Wk.)****4 Credits**

Students are introduced to the basic microbiology principles by investigating microbial diversity and fundamental characteristics of prions, viruses, prokaryotes and eukaryotes, chemical and growth requirements, epidemiology and pathogenicity, learn general immunology, and investigate common diseases with focus on the relationship between man and microbe. Students will gain practical skills in aseptic techniques and basic lab procedures, including staining. This course is designed for allied health majors and non-major students seeking to fulfill a lab science general education requirement.

Prerequisite: GS 112, BI 112, or BI 211 with a C or better or instructor approval.**FALL 2018, 2019; WINTER 2019, 2020****BLD BUILDING CONSTRUCTION****BLD 101****INTRO TO HISTORIC PRESERVATION****(2.00 Lecture Hr.Wk.)****2 Credit**

Introduction to issues of historic preservation. Students gain an overview of the field including terminology, standards, history, theory, resources and technologies.

FALL 2019; OFFERED EVERY OTHER YEAR**BLD 103****RESIDENTIAL MATERIALS AND METHODS****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn the function and performance characteristics of basic building materials, components, methods, and sequences in the construction process. Emphasizes residential construction.

WINTER 2019; OFFERED EVERY OTHER YEAR**BLD 104****CONSTRUCTION MATH****(2.00 Lecture Hrs./Wk.)****2 Credits**

Students solve practical problems involving fractions, decimals, percentages, linear measurement, area measurement, volumetric measurement, unit conversions, geometry and trigonometry as used in the building trades. They apply mathematical techniques to estimate building materials and costs.

FALL 2019; OFFERED EVERY OTHER YEAR

BLD 110
CONSTRUCTION SAFETY FOR HISTORIC PRESERVATION
(10.00 Lecture and 8.00 Lecture/Lab Hrs. Total) **1 Credit**
Students learn safe work practices for historic preservation and construction.
FALL 2019; OFFERED EVERY OTHER YEAR

BLD 111
TOOL SAFETY FOR HISTORIC PRESERVATION
(10.00 Lecture and 8.00 Lecture/Lab Hrs. Total) **1 Credit**
Students learn to safely use and maintain hand and power tools for historic preservation and construction.
FALL 2019; OFFERED EVERY OTHER YEAR

BLD 120
CONSTRUCTION SKILLS: SITEWORK
(12.00 Lecture Hrs. Total) **1 Credit**
Students gain knowledge and practical hands-on experience in materials and methods of sitework. Specific projects determined by instructor and student interest.
OFFERED AS NEEDED

BLD 121
CONSTRUCTION SKILLS: FOUNDATION SYSTEMS
(12.00 Lecture Hrs. Total.) **1 Credit**
Students gain knowledge and practical hands-on experience in materials and methods of construction for foundation systems. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.
OFFERED AS NEEDED

BLD 122
CONSTRUCTION SKILLS: FLOOR SYSTEMS
(12.00 Lecture Hrs. Total.) **1 Credit**
Students gain knowledge and practical hands-on experience in materials and methods of construction for floor systems. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.
OFFERED AS NEEDED

BLD 123
CONSTRUCTION SKILLS: WALL SYSTEMS
(12.00 Lecture Hrs. Total.) **1 Credit**
Students gain knowledge and practical hands-on experience in materials and methods of construction for wall systems. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.
OFFERED AS NEEDED

BLD 124
CONSTRUCTION SKILLS: ROOF SYSTEMS
(12.00 Lecture Hrs. Total.) **1 Credit**
Students gain knowledge and practical hands-on experience in materials and methods of construction for roof systems. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.
OFFERED AS NEEDED

BLD 125
CONSTRUCTION SKILLS: MOISTURE AND THERMAL PROTECTION
(12.00 Lecture Hrs. Total.) **1 Credit**
Students gain knowledge and practical hands-on experience in materials and methods of construction for moisture and thermal protection. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.
OFFERED AS NEEDED

BLD 126
CONSTRUCTION SKILLS: DOORS AND WINDOWS
(12.00 Lecture Hrs. Total.) **1 Credit**
Students gain knowledge and practical hands-on experience in materials and methods of construction for doors and windows. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.
OFFERED AS NEEDED

BLD 127
CONSTRUCTION SKILLS: STAIRS
(12.00 Lecture Hrs. Total.) **1 Credit**
Students gain knowledge and practical hands-on experience in materials and methods of construction for stairs. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.
OFFERED AS NEEDED

BLD 128
CONSTRUCTION SKILLS: FINISH WORK
(12.00 Lecture Hrs. Total.) **1 Credit**
Students gain knowledge and practical hands-on experience in materials and methods of construction for finish work. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.
OFFERED AS NEEDED

BLD 129
BUILDING ANALYSIS AND DOCUMENTATION
(12.00 Lecture Hrs. Total) **1 Credit**
Students gain knowledge and practical hands-on experience in analysis and documentation of existing building conditions. Assessment of materials, components and systems will be done to determine qualities and deterioration and an assessment report will be written.
OFFERED AS NEEDED

BLD131
MATERIALS: CONCRETE
(12.00 Lecture Hrs. Total) **1 Credit**
Students gain knowledge and practical hands-on experience in applications and properties of concrete in construction. Students will work on a project using concrete as a building material.
OFFERED AS NEEDED

BLD 132
MATERIALS: MASONRY
(12.00 Lecture Hrs. Total) **1 Credit**
Students gain knowledge and practical hands-on experience in applications and properties of masonry in construction. Students will work on a project using masonry as a building material.
OFFERED AS NEEDED

BLD 133**MATERIALS: PLASTER**
(12.00 Lecture Hrs. Total)**1 Credit**

Students gain knowledge and practical hands-on experience in applications and properties of plaster in construction. Students will work on a project using plaster as a building material.

OFFERED AS NEEDED**BLD 134****MATERIALS: WOOD**
(12.00 Lecture Hrs. Total)**1 Credit**

Students gain knowledge and practical hands-on experience in applications and properties of wood in construction. Students will work on a project using wood as a building material.

OFFERED AS NEEDED**BLD 135****MATERIALS: METAL**
(12.00 Lecture Hrs. Total)**1 Credit**

Students gain knowledge and practical hands-on experience in applications and properties of metal in construction. Students will work on a project using metal as a building material.

OFFERED AS NEEDED**BLD 136****MATERIALS: GLASS**
(12.00 Lecture Hrs. Total)**1 Credit**

Students gain knowledge and practical hands-on experience in applications and properties of glass in construction. Students will work on a project using glass as a building material.

OFFERED AS NEEDED**BLD 137****MATERIALS: FINISHES**
(12.00 Lecture Hrs. Total)**1 Credit**

Students gain knowledge and practical hands-on experience in applications and properties of finishes in construction. Students will work on a project using finishes as a building material.

OFFERED AS NEEDED**BLD 138****MATERIALS: ADHESIVES**
(12.00 Lecture Hrs. Total)**1 Credit**

Students gain knowledge and practical hands-on experience in applications and properties of adhesives in construction. Students will work on a project using adhesives as a building material.

OFFERED AS NEEDED**BLD 139****MATERIALS ANALYSIS**
(12.00 Lecture Hrs. Total)**1 Credit**

Students gain knowledge and practical hands-on experience in analysis of construction materials. Students will work on an advanced project involving research, testing and analysis of selected materials.

OFFERED AS NEEDED**BLD 140****PRINT READING FOR CONSTRUCTION**
(3.00 Lecture Hrs./Wk.)**3 Credits**

Students learn and apply the principles of reading and interpreting construction prints. They learn the purpose of different types of drawings, the types of projections, applications of math, and the use of conventions, scales, symbols, notes, schedules and dimensions in construction drawings.

FALL 2018; OFFERED EVERY OTHER YEAR**BLD 151****BUILDING CODES I – INTRODUCTION TO RESIDENTIAL CODES**
(3.00 Lecture Hrs./Wk.)**3 Credits**

Students are introduced to the International and Oregon Residential Codes for One and Two-Family Dwellings. They apply the codes to buildings and occupants, and learn the role and influence of codes in design and construction is examined. Topics include: general types of construction; special design for wind forces, flood, seismic events and fire safety; egress and accessibility; energy efficiency; structures and materials.

SPRING 2019; OFFERED EVERY OTHER YEAR**BLD 206****GREEN BUILDING**
(3.00 Lecture Hrs./Wk.)**3 Credits**

Students are introduced to the theory and practice of sustainable building for new construction and remodeling of historic buildings.

WINTER 2019; OFFERED EVERY OTHER YEAR**BLD 207****PROJECT MANAGEMENT**
(3.00 Lecture Hrs./Wk.)**3 Credits**

Students are introduced to construction project management, including overview of the design and construction process, construction planning, coordinating construction projects, cost estimating, labor, material and equipment utilization, negotiating, team work, communication, leadership and ethics.

FALL 2018; OFFERED EVERY OTHER YEAR**BLD 210****HISTORIC PRESERVATION I**
(3.00 Lecture Hrs./Wk.)**3 Credits**

Students survey the history and theory of historic preservation. Students gain knowledge to apply historic preservation methods to renovation and restoration construction projects.

FALL 2018; OFFERED EVERY OTHER YEAR**BLD 211****HISTORIC PRESERVATION II**
(3.00 Lecture Hrs./Wk.)**3 Credits**

Students study the methodologies for researching and documenting historic buildings. Students complete an historic building analysis and restoration plan for a regional building.

Prerequisite: BLD 210.**WINTER 2019; OFFERED EVERY OTHER YEAR****BLD 220****HISTORIC PRESERVATION AND RESTORATION TECHNIQUES: SITEWORK**
(12.00 Lecture Hrs. Total)**1 Credit**

Students gain knowledge and practical hands-on experience in historic site analysis and work. Specific projects determined by instructor and student interest.

OFFERED AS NEEDED

**BLD 221
HISTORIC PRESERVATION & RESTORATION TECHNIQUES:
FOUNDATION SYSTEMS****(12.00 Lecture Hrs. Total.)** **1 Credit**

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for foundation systems. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.

OFFERED AS NEEDED**BLD 222
HISTORIC PRESERVATION & RESTORATION TECHNIQUES:
FLOOR SYSTEMS****(12.00 Lecture Hrs. Total.)** **1 Credit**

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for floor systems. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.

OFFERED AS NEEDED**BLD 223
HISTORIC PRESERVATION & RESTORATION TECHNIQUES:
WALL SYSTEMS****(12.00 Lecture Hrs. Total.)** **1 Credit**

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for wall systems. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.

OFFERED AS NEEDED**BLD 224
HISTORIC PRESERVATION & RESTORATION TECHNIQUES:
ROOF SYSTEMS****(12.00 Lecture Hrs. Total.)** **1 Credit**

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for roof systems. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.

OFFERED AS NEEDED**BLD 225
HISTORIC PRESERVATION & RESTORATION TECHNIQUES:
MOISTURE & THERMAL PROTECTION****(12.00 Lecture Hrs. Total.)** **1 Credit**

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for moisture and thermal protection. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.

OFFERED AS NEEDED**BLD 226
HISTORIC PRESERVATION & RESTORATION TECHNIQUES:
DOORS AND WINDOWS****(12.00 Lecture Hrs. Total.)** **1 Credit**

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for doors and windows. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.

OFFERED AS NEEDED**BLD 227
HISTORIC PRESERVATION & RESTORATION TECHNIQUES:
STAIRS****(12.00 Lecture Hrs. Total.)** **1 Credit**

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for stairs. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.

OFFERED AS NEEDED**BLD 228
HISTORIC PRESERVATION & RESTORATION TECHNIQUES:
FINISH WORK****(12.00 Lecture Hrs. Total.)** **1 Credit**

Students gain knowledge and practical hands-on experience in materials and methods of historic preservation and restoration construction for finish work. Specific projects determined by instructor and student interest. Course may be repeated up to four credits.

OFFERED AS NEEDED**BLD 229
BUILDING ANALYSIS AND DOCUMENTATION****(12.00 Lecture Hrs. Total)** **1 Credit**

Students gain knowledge and practical hands-on experience in analysis and documentation of existing building conditions. Assessment of materials, components and systems will be done to determine qualities and deterioration and an historic building assessment report will be written.

OFFERED AS NEEDED**BLD 231
MATERIALS: CONCRETE****(12.00 Lecture Hrs. Total)** **1 Credit**

Students gain knowledge and practical hands-on experience in applications and properties of concrete in historic buildings. Students will study the historic use and performance of concrete, analyze pathologies and learn repair methodologies.

OFFERED AS NEEDED**BLD 232
MATERIALS: MASONRY****(12.00 Lecture Hrs. Total)** **1 Credit**

Students gain knowledge and practical hands-on experience in applications and properties of masonry in historic buildings. Students will study the historic use and performance of masonry, analyze pathologies and learn repair methodologies.

OFFERED AS NEEDED**BLD 233
MATERIALS: PLASTER****(12.00 Lecture Hrs. Total)** **1 Credit**

Students gain knowledge and practical hands-on experience in applications and properties of plaster in historic buildings. Students will study the historic use and performance of plaster, analyze pathologies and learn repair methodologies.

OFFERED AS NEEDED

BLD 234**MATERIALS: WOOD****(12.00 Lecture Hrs. Total)****1 Credit**

Students gain knowledge and practical hands-on experience in applications and properties of wood in historic buildings. Students will study the historic use and performance of wood, analyze pathologies and learn repair methodologies.

OFFERED AS NEEDED**BLD 235****MATERIALS: METAL****(12.00 Lecture Hrs. Total)****1 Credit**

Students gain knowledge and practical hands-on experience in applications and properties of metal in historic buildings. Students will study the historic use and performance of metal, analyze pathologies and learn repair methodologies.

OFFERED AS NEEDED**BLD 236****MATERIALS: GLASS****(12.00 Lecture Hrs. Total)****1 Credit**

Students gain knowledge and practical hands-on experience in applications and properties of glass in historic buildings. Students will study the historic use and performance of glass, analyze pathologies and learn repair methodologies.

OFFERED AS NEEDED**BLD 237****MATERIALS: FINISHES****(12.00 Lecture Hrs. Total)****1 Credit**

Students gain knowledge and practical hands-on experience in applications and properties of finishes in historic buildings. Students will study the historic use and performance of finishes, analyze pathologies and learn repair methodologies.

OFFERED AS NEEDED**BLD 238****MATERIALS: ADHESIVES****(12.00 Lecture Hrs. Total)****1 Credit**

Students gain knowledge and practical hands-on experience in applications and properties of adhesives in historic buildings. Students will study the historic use and performance of adhesives, analyze pathologies and learn repair methodologies.

OFFERED AS NEEDED**BLD 239****MATERIALS ANALYSIS****(12.00 Lecture Hrs. Total)****1 Credit**

Students gain knowledge and practical hands-on experience in analysis of historic construction materials. Students will work on an advanced project involving research, testing and analysis of selected materials.

OFFERED AS NEEDED**BLD 295****HISTORIC PRESERVATION & RESTORATION DIRECTED PROJECT****(2.00 Lecture, 4.00 Lecture/Lab Hrs./Wk.)****4 Credits**

Students synthesize knowledge gained in other courses and use critical thinking and problem solving skills to address a significant problem in their area of interest. Students complete a comprehensive project and make a professional presentation. This is the capstone course for the Historic Preservation and Restoration program.

Prerequisite: Completion of all but the last quarter of program course work.

SPRING 2019, 2020**BOT BOTANY****BOT 101****BOTANY****(3.00 Lecture, 3.00 Lab Hrs./Wk.)****4 Credits**

Students will investigate life processes within plants and their relationship to plant form and anatomy. Students will also explore plant/people relations, ecology, genetics, diversity and evolutionary relationships among plants.

Prerequisite: WR 121 or instructor approval.

SPRING 2019, 2020**CH CHEMISTRY****CH 221****GENERAL CHEMISTRY I****(4.00 Lecture, 3.00 Lab Hrs./Wk.)****5 Credits**

Students understand and apply the principles that govern the behavior of matter as a foundation for further college study in the sciences and engineering. Students will learn and demonstrate both qualitative and quantitative understanding of stoichiometry, periodicity, atomic and molecular structure, formulas and equations, chemical bonding, thermodynamics, chemical reactions, and solubility. Data acquisition and handling by computers is stressed. Service course covering the principles of chemistry for the student who already has a good knowledge of high school chemistry. Must be taken in sequence.

Prerequisite: Two years high school algebra or equivalent (MTH 95 or higher) and mastery of the principles of high school chemistry or completion of CH 105 and instructor approval.

FALL 2018, 2019**CH 222****GENERAL CHEMISTRY II****(4.00 Lecture, 3.00 Lab Hrs./Wk.)****5 Credits**

Students further understand and apply the principles that govern the behavior of matter as a foundation for further college study in the sciences and engineering. Students will learn and demonstrate both qualitative and quantitative understanding of gases, acids and bases, kinetic molecular theory, the quantum mechanical model of atoms, equilibrium, molecular geometry, and molecular orbital theory. Data acquisition and handling by computers is stressed. Service course covering the principles of chemistry for the student who already has a good knowledge of high school chemistry. Must be taken in sequence.

Prerequisite: CH 221 with a "C" grade or better and instructor approval.

WINTER 2019, 2020

CH 223

GENERAL CHEMISTRY III

(4.00 Lecture, 3.00 Lab Hrs./Wk.)

5 Credits

Students further understand and apply the principles that govern the behavior of matter as a foundation for further college study in the sciences and engineering. Students will learn and demonstrate both qualitative and quantitative understanding of thermodynamics, nuclear reactions, electrochemistry, organic chemistry (an introduction), environmental chemistry, chemical kinetics, chemical equilibrium, and acids and bases. Data acquisition and handling by computers is stressed. Service course covering the principles of chemistry for the student who already has a good knowledge of high school chemistry.

Prerequisite: CH 222 with a "C" grade or better and instructor approval.

SPRING 2019, 2020

CJ CRIMINAL JUSTICE

Note: All Criminal Justice courses must be completed with a C grade or higher.

CJ 107

CRIMINAL JUSTICE WORKSHOP

(3.00 Lecture Hrs./Wk.)

3 Credits

Students look critically at various controversial ideas, issues and recent events pertaining to the criminal justice system. Students will also examine issues rooted in gender, race, ethnicity, sexual preference and other protected classes.

WINTER 2020; OFFERED EVERY OTHER YEAR

CJ 110

INTRODUCTION TO LAW ENFORCEMENT

(3.00 Lecture Hrs./Wk.)

3 Credits

Students study law enforcement in the United States, including: its historical development; police practices, policies and procedures; the roles and responsibilities of the American law enforcement officer; issues pertaining to recruitment, training and retention of officers; physical, emotional and psychological demands of the profession on its employees; ethics; and the influence of diverse populations on police personnel practices and on policies and procedures governing day to day police operations.

WINTER 2019; OFFERED EVERY OTHER YEAR

CJ 111

INTRO TO CRIMINAL JUSTICE

(3.00 Lecture Hrs./Wk.)

3 Credits

Students develop a fundamental understanding of the criminal justice system, the problem of crime, the theories of crime causation, society's response to criminals, and the key legal principles that form the foundation of the criminal justice system.

FALL 2018; OFFERED EVERY OTHER YEAR

CJ 114

GENDER, RACE, CLASS AND CRIME

(3.00 Lecture Hrs./Wk.)

3 Credits

Students study the impact of cultural diversity on the American criminal justice system, including the historical treatment of minorities; cross-cultural communication between criminal justice personnel and diverse populations; criminal patterns and trends; and cultural diversification of the criminal justice personnel, including recruitment and hiring of minority populations.

OFFERED AS NEEDED

CJ 120

INTRODUCTION TO THE JUDICIAL PROCESS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students study the American judicial system, including the processing of cases from arrest or filing to appeal stages; the similarities and differences between the federal and various state systems; the duties, functions and interaction of the system's personnel; issues related to taking the case from investigation to conviction; and the impact and influence of diverse populations on the policies, procedures and operations of American courts.

SPRING 2019; OFFERED EVERY OTHER YEAR

CJ 121

CONCEPTS OF CRIMINAL LAW

(3.00 Lecture Hrs./Wk.)

3 Credits

Students study substantive criminal law for criminal justice professionals, including the basic elements of a crime; the legal definitions of various crimes; criminal liability and culpability; and, recognized legal defenses to a crime.

SPRING 2019; OFFERED EVERY OTHER YEAR

CJ 130

INTRODUCTION TO CORRECTIONS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students study the American correctional system, including its historical development; correctional ideologies; state and federal custodial and community-based programs; the impact of confinement; inmate rights; and, the impact of the correctional profession on correctional personnel.

FALL 2018; OFFERED EVERY OTHER YEAR

CJ 138

UNDERSTANDING TERRORISM

(3.00 Lecture Hrs./Wk.)

3 Credits

Students examine major international and domestic terrorist groups from an historical and modern day perspective to acquire fundamental knowledge concerning each group's ideology, motivational factors, targets and operations and the response of the criminal justice community.

OFFERED AS NEEDED

CJ 203

CRISIS INTERVENTION

(3.00 Lecture Hrs./Wk.)

3 Credits

Students identify crisis intervention techniques for criminal justice personnel focusing on an understanding of the immediate needs of a person in crisis and on crisis intervention techniques in various situations, including domestic violence, suicide, sexual assault; and on the impact of intervention on the criminal justice intervener.

FALL 2019; OFFERED EVERY OTHER YEAR

CJ 205

FEMALE OFFENDERS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students develop an understanding of the nature and extent of female criminal activity, the major criminal theories pertaining to causation issues, the special issues faced by the criminal justice system in dealing with female offenders, and current trends in the intervention, treatment, rehabilitation and punishment of female offenders.

OFFERED AS NEEDED

CJ 210
CRIMINAL INVESTIGATION
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students study the history, theory and principles of criminal investigation, including strategies and procedures; the use of forensic techniques in evidence collection, preservation and analysis; crime lab operations, techniques, capabilities and limitations.
WINTER 2020; OFFERED EVERY OTHER YEAR

CJ 212
REPORT WRITING IN CRIMINAL JUSTICE
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students develop skills essential to being able to write factual reports based on observation and/or hearsay in a clear, concise, accurate and grammatically correct manner.
Prerequisite: WR 121.
FALL 2019; OFFERED EVERY OTHER YEAR

CJ 215
ISSUES IN CRIMINAL JUSTICE SUPERVISION AND ADMINISTRATION
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students demonstrate knowledge of the history, structure, and current issues in criminal justice that deal with supervision and management.
OFFERED AS NEEDED

CJ 218
INTERVIEW AND INTERROGATION TECHNIQUES
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students gain an understanding of the differences between interviewing and interrogation and their applicability in criminal justice settings; will learn basic techniques used when gathering information from victims, witnesses, suspects or other interested parties; and will be familiar with the role deception plays in the information gathering process.
SPRING 2020; OFFERED EVERY OTHER YEAR

CJ 219
INTRODUCTION TO COMMUNITY POLICING
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students explore how the police and citizens can work together to solve community problems. Topics include the history, current programs and future trends in community policing.
OFFERED AS NEEDED

CJ 225
CORRECTIONS LAW
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students study how law affects the corrections environment through an examination of the legal rights and responsibilities of inmates, officers and prison administration and how law impacts the operations of correctional facilities.
OFFERED AS NEEDED

CJ 230
INTRO TO JUVENILE CORRECTIONS
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students study the juvenile correctional system in the United States, including the philosophy behind the juvenile court and various custodial and community-based correctional and treatment programs.
OFFERED AS NEEDED

CJ 231
JUVENILE LAW
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students will study the historical development of juvenile criminal rights, including key U.S. Supreme Court decisions, and their impact on the interaction between Criminal Justice personnel and juveniles in America.
OFFERED AS NEEDED

CJ 232
INTRODUCTION TO CORRECTIONS CASEWORK
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students study criminal justice counseling and interviewing techniques, including the role of the counselor; the counseling process; criminal personalities and behaviors; various treatment modalities; and ethical and legal issues that criminal justice counselors face.
OFFERED AS NEEDED

CJ 243
ALCOHOL AND OTHER DANGEROUS DRUGS
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students study drug and alcohol use and abuse, including an historical look at drug and alcohol use and abuse; the attempts to regulate and control the substances; symptoms of use and abuse; the prejudicial and discriminatory intent and underpinnings of drug regulation in America; and the impact of alcohol and dangerous drugs on the American criminal justice system.
FALL 2019; OFFERED EVERY OTHER YEAR

CWE COOPERATIVE WORK EXPERIENCE

The Cooperative Work Experience program allows students to earn college credit for working in the community in an area related to the student's academic goals. Contact the Director of Cooperative Work Experience at (503) 338-2480 for the appropriate CWE class, seminar and registration information. All work experience students are required to take a one (1) credit work experience seminar with their first work experience.

CWE 180
COOPERATIVE WORK EXPERIENCE (CAREER DEVELOPMENT) **1-11 Credits**
 Students work in the community in a position that allows them to gain pertinent skills and exposure relevant to their academic goals. Prior to the beginning of the work experience, students create individual learning objectives in cooperation with an identified Worksite Supervisor. Student learning objectives are reviewed and approved by the student's Academic Advisor. The learning objectives guide student learning during the term. Student progress is monitored by Cooperative Work Experience staff. Students participate in regular monitoring meetings. Students submit required paperwork and are evaluated by their Worksite Supervisor. Students demonstrate skill mastery as the work experience progresses.
Prerequisite: Students must be enrolled in either the AGS degree program or in courses leading to a 4-year degree. Co-requisites: Concurrent enrollment in or completion of a Cooperative Work Experience seminar.

CWE 280**COOPERATIVE WORK EXPERIENCE****1-11 Credits**

Students work in the community in positions which allow them to demonstrate the skills they have gained during their academic training. Prior to beginning the work experience, students create individual learning objectives in cooperation with an identified Worksite Supervisor. Student learning objectives are reviewed and approved by the student's Faculty Advisor and/or Program Supervisor. Student learning objectives are consistent with program outcomes and guide student learning during the term. Student learning is monitored by Cooperative Work Experience staff. Students participate in regular monitoring meetings. Students submit required paperwork, and are evaluated by their Worksite Supervisor. Students assume greater responsibility on the job as the work experience progresses.

Prerequisite: None, however, students must have adequate academic training to be successful in an entry-level position. Registration requires the signature of a Cooperative Work Experience staff member. Co-requisite: concurrent enrollment in or completion of a cooperative work experience seminar.

CWE 281**COOPERATIVE WORK EXPERIENCE SEMINAR****(1.00 Lecture Hr./Wk.)****1 Credit**

Students enrolling in Cooperative Work Experience will participate in this seminar to discuss and develop an understanding of appropriate and effective work practices. Co-requisite: placement in an appropriate cooperative work experience job and instructor approval.

CS COMPUTER SCIENCE**CS 101****FUNDAMENTALS OF COMPUTING****(1.00 Lecture Hrs./Wk.)****1 Credit**

Students study contemporary computer terminology; learn about the Internet; are introduced to operating system software; learn about application software; learn file management; learn how to log into a network and use the college email system.

OFFERED AS NEEDED**CS 131****INTRODUCTION TO COMPUTER INFORMATION SYSTEMS****(4.00 Lecture Hrs./Wk.)****4 Credits**

Students learn and apply theory, elements, and structures of microcomputer systems (including hardware and software) to develop computer literacy. This class also provides hands-on experience using computer applications in preparation for more advanced classes.

Prerequisite: CS 101 or OA 120 recommended for students with little or no computer experience.

SPRING 2019, 2020**CS 160W****INTRODUCTION TO COMPUTER SCIENCE****(4.00 Lecture Hrs./Wk.)****4 Credits**

Students explore the disciplines and professions of Computer Science and Software Engineering. Students learn an overview of computer hardware and software architecture, the study of algorithms, software design and development, data representation and organization, problem-solving strategies, ethics in the digital world, and the history of computing and its influences on society. Students also explore career options and begin the process of planning a program of study. Exposes students to both low-level and high-level programming languages.

FALL 2018, 2019**CS 161****COMPUTER SCIENCE I****(4.00 Lecture 2 Lab Hrs./Wk.)****4 Credits**

Students will learn an introduction to computer science using Java language. The emphasis will be on object-oriented design. Important concepts such as object interaction, testing, and documentation will also be addressed. This class is the first class of a two class sequence. Completion of CS 160W and Math 111 or higher strongly recommended.

WINTER 2019, 2020**CS 162****COMPUTER SCIENCE II****(4.00 Lecture 2 Lab Hrs./Wk.)****5 Credits**

Students learn a foundation in software development and computer programming including advanced object-oriented programming concepts, GUI and event driven programming, file I/O, recursion, and further explorations of the language libraries. Students apply the fundamental programming concepts gained in CS161 to create more complex programs. Additionally, new concepts and tools are introduced, including tools that help in the construction of larger, more durable programs that can be used for practical applications.

Prerequisite: CS 161 completed.

SPRING 2019, 2020**CS 260****DATA STRUCTURE I****(4.00 Lecture Hrs./Wk.)****4 Credits**

Students study the merge of abstract data types and the algorithms which manipulate them. Topics include: the study of elementary searching and sorting algorithms and hashing, object oriented implementation strategies for stacks, lists, queues, trees and hash tables. The course also covers an introduction and application of complexity analysis: asymptotic analysis of upper and average complexity bounds, $O()$, $\Theta()$ and $\Omega()$ notation as well as a general introduction to resource consumption, including the tradeoff between time and space.

Prerequisite: CS 162 C grade or better.

FALL 2018, 2019**CS 271****COMPUTER ORGANIZATION****(4.00 Lecture Hrs./Wk.)****4 Credits**

Students learn the logical organization and the hardware components of a computer system and future directions of computer architecture.

Prerequisite: CS 171 completed.

OFFERED AS NEEDED**CS 272****LOW LEVEL PROGRAMMING****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn programming techniques that require the programmer to be aware of the computer's hardware organization. Students learn assembly language programming and consider aspects of the C programming language such as: pointers, dynamic memory allocation, the address operators, and the bit wise operators.

OFFERED AS NEEDED

**CSL 107
SPREADSHEETS**

(3.00 Lecture Hrs./Wk.) **3 Credits**
Students gain an understanding of worksheet design, formulas, charting, what-if analysis, linking and consolidating worksheets through hands-on exercises.

Prerequisite: None. Basic keyboarding skills and computer literacy recommended.

FALL 2018, 2019

DCO DEVELOPMENTAL COMMUNICATIONS**DCO 10
ABE-READING/WRITING**

Through individualized course work and group activities, students develop the reading and writing skills necessary in college preparation courses and the workforce.

DESL DEVELOPMENTAL ENGLISH**DESL 01
ENGLISH FOR SPEAKERS OF OTHER LANGUAGES**

Students improve their skills in speaking, reading, and writing English necessary for success in daily life and the workforce.

DGED DEVELOPMENTAL GED PREPARATION**DGED 48
PRE-GED PREPARATION**

Students improve their skills in reading writing and math in preparation for taking the GED test.

Prerequisite: DMTH 07 and/or DCO 10 or see advisor for placement score approval, or instructor approval.

OFFERED AS NEEDED

**DGED 49
GED PREPARATION**

Students improve their knowledge of social studies, writing, literature, science, and mathematics.

Prerequisite: DGED48 see advisor for placement score approval, or instructor approval.

**SUMMER 2018; FALL 2018, 2019; WINTER 2019, 2020;
SPRING 2019 2020**

DMTH DEVELOPMENTAL MATH**DMTH 07
ABE - MATHEMATICS**

Students develop skills in whole number mathematics, including adding, subtracting, multiplying, dividing, rounding, estimating and problem solving.

**SUMMER 2018, 2019; FALL 2018, 2019; WINTER 2019,
2020; SPRING 2019 2020**

DRF DRAFTING**DRF 139
TECHNICAL PRINT INTERPRETATION**

(3.00 Lecture Hrs./Wk.) **3 Credits**
Students learn and apply the principles of reading and interpreting technical prints. They learn the purpose of different types of drawings in a variety of disciplines, the types of projections, and the use of conventions, scale, symbols, notes and dimensions in planning, construction and assembly.

FALL 2018, 2019

**DRF 150
CONSTRUCTION DRAWING**

(3.00 Lecture Hrs./Wk.) **3 Credits**
Students are introduced to tools and techniques of sketching and drafting for architecture. Students develop skills to communicate designs for construction and renovation projects including scaling, projection types, plans, elevations, sections, pictorial drawings and drawing conventions. Traditional and computer aided drafting techniques are introduced.

WINTER 2019, 2020

**DRF 213
COMPUTER AIDED DESIGN I**

(3.00 Lecture, 3.00 Lab Hrs./Wk.) **4 Credits**
Students are introduced to computer aided design/drafting (CAD) as an integrated system to represent and communicate designs. Students gain and apply fundamental knowledge of CAD concepts and techniques. They use CAD systems to create, modify and display drawings and create design documents. Students work individually and collaboratively to analyze and solve design problems.

FALL 2018, 2019

**DRF 214
COMPUTER AIDED DESIGN II**

(3.00 Lecture, 3.00 Lab Hrs./Wk.) **4 Credits**
Students gain and apply knowledge of advanced CAD concepts and techniques. They use CAD systems to develop multi-view, sectional, detail and isometric drawings and demonstrate the use of drawing conventions including dimensioning, hatching, symbols and layouts. Students work individually and collaboratively to analyze and solve design problems.

Prerequisite: DRF 213 or instructor approval.

WINTER 2019, 2020

**DRF 215
COMPUTER AIDED DESIGN III**

(3.00 Lecture, 3.00 Lab Hrs./Wk.) **4 Credits**
Students gain and apply knowledge of three dimensional CAD concepts and techniques. They use CAD systems to create, manipulate and view surface and solid models, renderings and presentation documents. Students work individually and collaboratively to analyze and solve design problems.

Prerequisite: DRF 214 or instructor approval.

SPRING 2019, 2020

DRF 217

AUTOCAD - UPGRADE

(16 Lecture Hours Total)

1 Credit

Students develop skills in using new and modified tools and features to get the most out of recent system enhancements. This course is for individuals who are skilled in using AutoCAD and need to upgrade to the latest release.

Prerequisite: Experienced AutoCAD user.

OFFERED AS NEEDED

DRF 295

CADD DIRECTED PROJECT

(2.00 Lecture, 6.00 Lab Hrs/Wk.)

4 Credits

Students build on knowledge gained in other courses and use critical thinking and problem solving skills to address a significant problem in their area of specialization. Students complete a comprehensive project and make a professional presentation. This is the capstone course for the Computer Aided Design and Drafting program.

Prerequisite: Completion of all but the last quarter of program course work.

SPRING 2019, 2020

EC ECONOMICS

EC 201

PRINCIPLES OF MICRO ECONOMICS

(4.00 Lecture Hrs./Wk.)

4 Credits

Students study the behavior of individuals and individual firms within different market structures using micro-economic theory. Students apply the concepts of competition, consumer decisions, the use price of economic resources, and international trade in their social context. Students understand the diversity of economic systems.

FALL 2018; SPRING 2019; WINTER 2020

EC 202

PRINCIPLES OF MACRO ECONOMICS

(4.00 Lecture Hrs./Wk.)

4 Credits

Students survey economic theory, policy, and institutions. They focus on macro-economic theory, scarcity, production, money, unemployment, inflation, and international finance. Students apply analytical skills to social phenomena in order to understand economic behavior.

WINTER 2019; FALL 2019; SPRING 2020

ED EDUCATION

ED 120

LEADERSHIP: STUDENT GOVERNMENT

(2.00 Lecture/Lab Hrs./Wk.)

1 Credit

Course promotes campus and community service providing students with an understanding of the theoretical and practical nature of student leadership. Students actively serve as members of the Associated Student Government to conduct meetings, serve as a voice for students at campus meetings, provide a resource for other students with concerns, and contribute to campus communication directed to students through email, newsletter or other media. (Must be a degree-seeking student.)

FALL 2019, 2020

EGR ENGINEERING

EGR 101 ENGINEERING ORIENTATION

(3.00 Lecture Hrs./Wk.)

5 Credits

Students demonstrate familiarity with the engineering disciplines, curricula at four-year colleges, professional ethics, and licensing requirements for professional engineers. Students gain experience in data collection and engineering problem analysis using tools such as an engineer's scale and spreadsheets. Students participate in a team-engineering project.

Prerequisite: MTH 111 or High School Trigonometry.

OFFERED AS NEEDED

EM EMERGENCY SERVICES

EM 101

INTRODUCTION TO EMERGENCY SERVICES

(4.00 Lecture Hrs./Wk.)

4 Credits

Students learn about fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection/service; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics.

OFFERED AS NEEDED

EMT EMERGENCY MEDICAL TECHNICIAN

EMT 140

MEDICAL TERMINOLOGY

(5 Lecture Hrs./Wk.)

5 Credits

Students apply knowledge and skills to master medical terminology dealing with specific body systems.

OFFERED AS NEEDED

EMT 151

EMERGENCY MEDICAL TECHNICIAN BASIC, PART 1

(44.00 Lecture, 30.00 Lecture/Lab Hrs.; 74 Hrs. Total) 5 Credits

This two-part course meets Oregon State Health Division and Fed. Dept. of Transportation requirements for EMT- Basic and prepares the student to provide basic pre-hospital emergency medical care and transportation of the sick and injured. On successful completion of EMT 152, the student will be prepared to take the National Registry of Emergency Medical Technicians certification examination for EMT-Basic.

Prerequisite: Health Care Provider CPR Certification, Current measles and Hepatitis B immunizations, negative TB test; valid driver's license.

FALL 2018, 2019

EMT 152**EMERGENCY MEDICAL TECHNICIAN BASIC, PART 2**

(44.00 Lecture, 22.00 Lecture/Lab Hrs.; 66 Hrs. Total) 5 Credits
Continuation of EMT 151. Students demonstrate the knowledge and skills required to provide basic pre-hospital emergency medical care and transportation of the sick and injured. On successful completion of this course, the student will be prepared to pass the Oregon State Health Division certification examination for EMT-Basic.

Prerequisite: Completion of EMT 151 with a grade C or higher.

WINTER 2019, 2020

EMT 154**ADVANCED EMERGENCY MEDICAL TECHNICIAN PART I**

(100.00 Lec/ Lab Hrs.; Total) 5 Credits

Students discuss, demonstrate, and learn practical applications of the following: roles and responsibilities of the Advanced Emergency Medical Technician, patient assessment, airway management, intravenous and intraosseous therapy, shock management, EKG monitoring, defibrillation, emergency pharmacology, and Advanced Emergency Medical Technician protocols. On successful completion of EMT 154 and EMT 155, the student will be prepared to take the National Registry of Emergency Medical Technicians certification examination for Advanced Emergency Medical Technician.

Prerequisite: Oregon/Washington EMT Certification, Signed Agency Referral.

OFFERED AS NEEDED

EMT 155**ADVANCED EMERGENCY MEDICAL TECHNICIAN PART II**

(100.00 Lec/ Lab Hrs.; Total) 5 Credits

Continuation of EMT 154. Students continue practice towards mastery in the following: roles and responsibilities of the Advanced Emergency Medical Technician, patient assessment, airway management, intravenous and intraosseous therapy, shock management, EKG monitoring, defibrillation, emergency pharmacology, and Advanced Emergency Medical Technician protocols. On successful completion of EMT 154 and EMT 155, the student will be prepared to take the National Registry of Emergency Medical Technicians certification examination for Advanced Emergency Medical Technician.

Prerequisite: Successful Completion of AEMT: Part I with a grade of "C" or better.

OFFERED AS NEEDED

EMT 169**EMERGENCY MEDICAL TECHNICIAN RESCUE**

(22.00 Lecture, 30.00 Lab Hrs.; 52 Hrs. Total) 3 Credits

Students demonstrate the knowledge and skills needed to rescue and extricate patients while maintaining personal safety; control and management of the accident scene; and considering needs of the accident trauma patient and the use and maintenance of rescue tools and equipment.

OFFERED AS NEEDED

EMT 176**EMERGENCY RESPONSE: PATIENT TRANSPORTATION**

(11.00 Lecture, 22.00 Lecture/Lab Hrs.; 33 Hrs. Total) 2 Credits

Students study ambulance operations, laws, maintenance, safety procedures, emergency driving, and route planning. Student will become familiar with hands-on vehicle inspections and emergency vehicle operations.

OFFERED AS NEEDED

EMT 177**EMERGENCY RESPONSE: COMMUNICATION AND DOCUMENTATION**

(22.00 Lecture Hrs. Total)

2 Credits

Students study principles of therapeutic communication, via verbal, written, and electronic modes in the provision of EMS; documentation of the elements of patient assessment, care, and transport; communication systems; radio types; reports; codes; and correct techniques.

OFFERED AS NEEDED

ENG ENGLISH LITERATURE**ENG 104****INTRODUCTION TO LITERATURE – FICTION**

(3.00 Lecture Hrs./Wk.)

3 Credits

Students read, discuss, and analyze a variety of short stories and novels, exploring the techniques of fiction and learning the language and process of literary criticism for use in oral and written responses. Through exposure to a wide range of human expression, students will learn to compare/contrast the attitudes and values of specific historical periods and diverse cultures.

OFFERED AS NEEDED

ENG 106**INTRODUCTION TO LITERATURE – POETRY**

(3.00 Lecture Hrs./Wk.)

3 Credits

Students read, discuss, and analyze a variety of poems, both historical and contemporary, formal and free verse. Emphasis will be on finding personal meaning in poetry as well as mastering the techniques of literary criticism. Through exposure to a diversity of texts, students will be able to compare/contrast approaches of poets from specific historical periods or differing world cultures.

OFFERED AS NEEDED

♦ **ENG 107****WORLD LITERATURE: THE ANCIENT WORLD**

(3.00 Lecture Hrs./Wk.)

3 Credits

Students study a variety of texts by authors from the ancient world (Sumerian, Jewish, Greek, Roman, Christian, and Moslem) including poetry, drama, and religious texts. Students will study the cultural, literary, political, religious, and social contexts for each work, and will examine the shift from oral to written storytelling traditions.

FALL 2018, 2019

♦ **ENG 108****WORLD LITERATURE: MEDIEVAL/RENAISSANCE**

(3.00 Lecture Hrs./Wk.)

3 Credits

Students study a variety of texts by authors from the Medieval and Renaissance eras (Italian, French, English, Spanish) including poetry, drama, and prose. Students will study the cultural, literary, political, religious, and social contexts for each work, and will examine the shift from manuscripts to printed texts.

WINTER 2019, 2020

Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with a “♦” symbol.

♦ **ENG 109**
WORLD LITERATURE: AFRICA, ASIA & LATIN AMERICA
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students read a sampling of the literature written in the developing world, including texts from Africa, Asia, and South America. Students will read folk tales, poetry, short stories, and novels. Students will examine primary texts from each region, but will also look at how colonialism has impacted a cross-pollination of cultures.
OFFERED AS NEEDED

ENG 110
INTRODUCTION TO FILM STUDIES
 (3.00 Lecture, 1.00 Lab Hrs./Wk.) **3 Credits**
 Students enhance their visual literacy by viewing, discussing, and analyzing contemporary film with emphasis on cinematic techniques and critical approaches to this media. Students will understand film in a historic and cultural context, comparing and contrasting attitudes and values of specific periods in film history. Students will also practice critical evaluation of films orally and in writing.
OFFERED AS NEEDED

♦ **ENG 180**
GOthic LITERATURE
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students study a sampling of literature written in the Gothic tradition, including British and American literature from 1800 to the present. Emphasis will be on reading the works; discussing them, and analyzing style, content, and theme. Students will also examine how the themes of Gothic literature have been “resurrected” in popular culture today (film, fashion, music).
OFFERED AS NEEDED

♦ **ENG 204**
ENGLISH LITERATURE – MEDIEVAL
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students study a variety of works by Medieval English authors including fairy tales, poetry, legends, and longer works such as Beowulf and Canterbury Tales. Students will study the cultural, literary, political, religious, and social contexts for each work, as well as the early history of the English language.
FALL 2018; OFFERED AS NEEDED

♦ **ENG 205**
ENGLISH LITERATURE – RENAISSANCE
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students study a variety of works by Renaissance English authors including Shakespearian (Macbeth) and non-Shakespearian (Faust) drama, lyric poetry, epic poetry, and an early novel. Students will study the cultural, literary, political, religious, and social contexts for each work, as well as how the printing press revolutionized literature.
WINTER 2019; OFFERED AS NEEDED

♦ **ENG 206**
ENGLISH LITERATURE – VICTORIAN & MODERN
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students study a variety of texts by Victorian and Modern British authors including novels, poems, and short stories. Students will study the rise of the female author in England and will examine works by post-colonial authors. Students will also discuss how changes in the British Empire altered the voice of British literature.
SPRING 2019; OFFERED AS NEEDED

♦ **ENG 214**
LITERATURE/PACIFIC NORTHWEST
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students learn about the wealth of historical and contemporary literature about the Pacific Northwest, placing it in the context of Pacific Northwest history, geography, politics, and culture. The primary readings for the course reflect the ethnic as well as geographic diversity of the region, with particular attention paid to historical and contemporary nonfiction of the Columbia Pacific region. Students also learn how oral traditions can reveal the perceptions and practices of Native Americans and other regional subcultures. Through reading, discussion, and formal written responses, students explore historic themes of cultural contact and conflict along with contemporary questions: what does it mean to possess a “sense of place”? How is the contemporary Pacific Northwest portrayed in literature? Who are the major Pacific Northwest authors? Does the literature of a region create an identity for that region? Films, secondary criticism, visits with guest authors, and field trips will complement the readings to provide historical and social context and encourage directed reflection about the local natural environment.
FALL 2018; OFFERED AS NEEDED

♦ **ENG 220**
MULTI-CULTURAL AMERICAN LITERATURE
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students read, discuss, and analyze the literature of one or more American minority groups, thereby examining the historical bases and evolutions of diverse cultural ideas. Assigned texts will explore social constructs in terms of power relationships, and guided discussion will help students recognize how culturally-based assumptions influence perceptions and behaviors described in literature.
OFFERED AS NEEDED

♦ **ENG 221**
INTRODUCTION TO CHILDREN’S LITERATURE
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students examine a variety of texts from the children’s literary tradition, including folk tales, fairy tales, classic stories, nursery rhymes, poems, picture books, and longer works. Emphasis will be on reading and discussing the works, as well as analyzing style, content, and themes.
OFFERED AS NEEDED

♦ **ENG 263**
AUTISM IN LITERATURE
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students read a variety of genres, including non-fiction, fiction, poetry, biography, and autobiography, in which either the author or a central character is known to be autistic. Emphasis will be on discussing the works, analyzing meanings, researching related topics, making connections between literature and life, understanding autistic culture, and learning about how autism has influenced the literary tradition. Autism in Literature is an introductory level literature course.
OFFERED AS NEEDED

ES ENVIRONMENTAL SCIENCE

ES 150
INTRODUCTION TO ENVIRONMENTAL SCIENCE
 (2.00 Lecture/Lab Hrs./Wk.) **1 Credit**
 Students will conduct one or more field studies and will investigate academic and professional opportunities in environmental science. Students will present their findings and develop a portfolio.
OFFERED AS NEEDED

ES 160**TECHNIQUES IN ENVIRONMENTAL INFORMATION ANALYSIS**
(3.00 Lecture, 3.00 Lab. Hrs./Wk.) **4 Credits**

Students learn principles of and application of environmental measurement, instrumentation, and data analysis. Students develop mapping, modeling, and group problem-solving skills, and work in groups to complete several field investigations.

Prerequisite: ES 150, MTH 70, and WR 121.

OFFERED AS NEEDED

ES 202**APPLIED ENVIRONMENTAL STUDIES: PREP FOR PROBLEM SOLVING**

(3.00 Lecture, 3.00 Lab. Hrs./Wk.) **4 Credits**

Students study the sources and handling of water and wastewater in our community, nation, and world. Students will learn to collect samples, test water and wastewater for biological and chemical parameters, and use that data to address issues, concerns and problems with water and wastewater.

Prerequisite: ES 160.

OFFERED AS NEEDED

FR FRENCH**FR 101****FIRST YEAR FRENCH**

(4.00 Lecture Hrs./Wk) **4 Credits**

Students will focus on introductory grammar, pronunciation, reading, writing, speaking, listening and culture in the French language and Francophone countries. The course is taught in English and French.

OFFERED AS NEEDED

FR 102**FIRST YEAR FRENCH**

(4.00 Lecture Hrs./Wk) **4 Credits**

Students will continue to focus on introductory grammar, pronunciation, reading, writing, speaking, listening and culture in the French language and Francophone countries. The course is taught in English and French.

Prerequisite: FR 101 or one semester of High School French or instructor approval.

OFFERED AS NEEDED

FR 103**FIRST YEAR FRENCH**

(4.00 Lecture Hrs./Wk) **4 Credits**

Students will continue to focus on introductory grammar, pronunciation, reading, writing, speaking, listening and culture in the French language and Francophone countries. The course is taught in English and French.

Prerequisite: FR 102 or one year of High School French or instructor approval.

OFFERED AS NEEDED

Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with a “♦” symbol.

♦ FR 201**SECOND YEAR FRENCH**

(4.00 Lecture Hrs./Wk) **4 Credits**

Students will focus on intermediate grammar, pronunciation, reading, writing, speaking, listening and culture in the French language and Francophone countries. The course is taught in French.

Prerequisite: FR 103 or 2 years of High School French or instructor approval.

OFFERED AS NEEDED

♦ FR 202**SECOND YEAR FRENCH**

(4.00 Lecture Hrs./Wk) **4 Credits**

Students will continue to focus on intermediate grammar, pronunciation, reading, writing, speaking, listening and culture in the French language and Francophone countries. The course is taught in French.

Prerequisite: FR 201 or 2 ½ years of High School French or instructor approval.

OFFERED AS NEEDED

♦ FR 203**SECOND YEAR FRENCH**

(4.00 Lecture Hrs./Wk) **4 Credits**

Students will continue to focus on intermediate grammar, pronunciation, reading, writing, speaking, listening and culture in the French language and Francophone countries. The course is taught in French.

Prerequisite: FR 201 or 3 years of High School French or instructor approval.

OFFERED AS NEEDED

FRP FIRE PROTECTION**PRINCIPLES OF EMERGENCY SERVICES****FRP 101**

4.00 Lecture Hrs./Wk.) **4 Credits**

This course provides an overview of fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives.

Prerequisite: Instructor approval.

FALL 2018; OFFERED EVERY OTHER YEAR

FIREFIGHTER SKILLS I**FRP 110**

(2Lecture/ Lab Hrs./Wk) **1 Credit**

Students develop the knowledge and skills needed to meet the minimum requirements of competence required of a person to serve as a paid or volunteer firefighter. Students will become familiar with the various types of equipment and procedures needed to function safely as a member of a firefighting team under direct supervision. This course is the first of a six course sequence.

FALL 2018, 2019

FIREFIGHTER SKILLS II**FRP 111****(2Lecture/ Lab Hrs./Wk)****1 Credit**

Students develop the knowledge and skills needed to meet the minimum requirements of competence required of a person to serve as a paid or volunteer firefighter. Students will become familiar with the various types of equipment and procedures needed to function safely as a member of a firefighting team under direct supervision. This course is a continuation of the Firefighter Skill series. Successful completion of FRP 110 is required.

WINTER 2019, 2020**FIREFIGHTER SKILLS III****FRP 112****(2Lecture/ Lab Hrs./Wk)****1 Credit**

Students develop the knowledge and skills needed to meet the minimum requirements of competence required of a person to serve as a paid or volunteer firefighter. Students will become familiar with the various types of equipment and procedures needed to function safely as a member of a firefighting team under direct supervision. This course is a continuation of the Firefighter Skill series. Successful completion of FRP 111 is required.

SPRING 2019, 2020**FIREFIGHTER SKILLS IV****FRP 113****(2Lecture/ Lab Hrs./Wk)****1 Credit**

Students develop the knowledge and skills needed to meet the minimum requirements of competence required of a person to serve as a paid or volunteer firefighter. Students will become familiar with the various types of equipment and procedures needed to function safely as a member of a firefighting team under direct supervision. This course is a continuation of the Firefighter Skill series. Successful completion of FRP 110 is required. Students develop the knowledge and skills needed to meet the minimum requirements of competence required of a person to serve as a paid or volunteer firefighter. Students will become familiar with the various types of equipment and procedures needed to function safely as a member of a firefighting team under direct supervision. This course is a continuation of the Firefighter Skill series. Successful completion of FRP 112 is required.

FALL 2018, 2019**FIREFIGHTER SKILLS V****FRP 114****(2Lecture/ Lab Hrs./Wk)****1 Credit**

Students develop the knowledge and skills needed to meet the minimum requirements of competence required of a person to serve as a paid or volunteer firefighter. Students will become familiar with the various types of equipment and procedures needed to function safely as a member of a firefighting team under direct supervision. This course is a continuation of the Firefighter Skill series. Successful completion of FRP 113 is required.

WINTER 2019, 2020**FRP 115****FIREFIGHTER SKILLS VI****(2Lecture/ Lab Hrs./Wk)****1 Credit**

This course provides an overview of fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives. Successful completion of FRP 114 is required.

SPRING 2019, 2020**FRP 121****FIRE BEHAVIOR AND COMBUSTION****(3.00 Lecture and 3.00 Lab Hrs./Wk.)****4 Credits**

Students explore the theories and fundamentals of how and why fires start, spread and how they are controlled.

Prerequisite: Instructor approval.**FALL 2019; OFFERED EVERY OTHER YEAR****FRP 151****FIREFIGHTER SKILLS I****(2.00 Lecture and 2.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students learn knowledge and skills to meet the minimum requirements of competence required of a person to serve as a paid or volunteer firefighter. Students will become familiar with the various types of equipment and procedures needed to function safely as a member of a firefighting team under direct supervision. This course fulfills the requirements of OR-OSHA and the Department of Public Safety Standards and training for entry level firefighters.

Prerequisite: Instructor approval and must be a firefighter with an agency.**OFFERED AS NEEDED****FRP 155****INSTRUCTIONAL METHODOLOGY****(2.00 Lecture Hrs./Wk.)****2 Credits**

Students develop proficiency in the methodologies and skills needed to conduct fire science instruction using prepared course outlines and materials.

Prerequisite: Instructor approval.**OFFERED AS NEEDED****FRP 156****FIREFIGHTER LAW****(1.00 Lecture Hr./Wk.)****1 Credit**

Students learn the Federal, State, and local laws that regulate emergency services, national standards influencing emergency services, standard of care, tort, liability, and a review of relevant court cases.

Prerequisite: Instructor approval.**FALL 2019; OFFERED EVERY OTHER YEAR**

FRP 157**PRINCIPLES OF FIRE AND EMERGENCY SERVICES SAFETY AND SURVIVAL****(33.00 Lecture Hr./Wk.)****3 Credits**

Students are introduced to the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk evaluation and control procedures for fire stations, training sites, emergency vehicles, and emergency situations involving fire, EMS, hazardous materials, and technical rescue. Upon completion of this course, students should be able to establish and manage a safety program in an emergency service organization.

Prerequisite: Instructor approval.**FALL 2019; OFFERED EVERY OTHER YEAR****FRP 158****FIRE PROTECTION HYDRAULICS AND WATER SUPPLY****(22.00 Lecture, 22.00 Lecture/Lab Hrs.; 44 Hrs. Total) 3 Credits**

Students develop the knowledge and skills required to operate various fire pumps and accessories. They will demonstrate competency in drafting, hydrant and tanker operations, and rule of thumb fire ground hydraulic calculations.

Prerequisite: FRP 151 or instructor approval.**WINTER 2020; OFFERED EVERY OTHER YEAR****FRP 164****HAZ MAT OPS****(2.000 Lecture, 20.00 Lecture/Lab Hrs.; 40 Hrs. Total) 3 Credits**

Students will gain the knowledge and skills needed to respond to, and manage, a hazardous material incident at the initial operations level of training. Students who complete this course will meet the core competencies for Operations Level Responders and Section 6.6, Mission Specific Competencies: Product Control, set forth in NFPA 472 -- 2008 edition: Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Operations Level Responder.

Prerequisite: Instructor approval.**SPRING 2020; OFFERED EVERY OTHER YEAR****FRP 166****BUILDING CONSTRUCTION FOR FIRE PROTECTION****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn the components of building construction that relate to fire and life safety. The focus of this course is on firefighter safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies.

Prerequisite: Completion of Principles of Emergency Services or Instructor Approval.**SPRING 2020; OFFERED EVERY OTHER YEAR****FRP 168****EMERGENCY SERVICE RESCUE****(22.00 Lecture, 30.00 Lab Hrs.; 52 Hrs. Total)****3 Credits**

Students demonstrate the knowledge and skills needed to rescue and extricate patients while maintaining personal safety; control and management of the accident scene; and considering needs of the accident trauma patient and the use and maintenance of rescue tools and equipment.

Prerequisite: Instructor approval.**SPRING 2019; OFFERED EVERY OTHER YEAR****FRP 169****PRINCIPLES OF FIRE AND EMERGENCY SERVICE ADMINISTRATION****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn the organization and management of a fire department and the relationship of government agencies to the fire service. Emphasis is on fire service leadership from the perspective of the company officer.

Prerequisite: Instructor approval.**WINTER 2019; OFFERED EVERY OTHER YEAR****FRP 170****FIREFIGHTING STRATEGY AND TACTICS****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students analyze the principles of fire control through the use of personnel, equipment, and extinguishing agents on the fire ground.

Prerequisite: Instructor approval.**SPRING 2019; OFFERED EVERY OTHER YEAR****FRP 171****FIRE PROTECTION SYSTEMS****(33.00 Lecture Hrs. Total)****3 Credits**

Students learn the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers.

WINTER 2019; OFFERED EVERY OTHER YEAR**FRP 172****FIRE CODES AND ORDINANCES****(33.00 Lecture Hrs. Total)****3 Credits**

Students study the Uniform Fire Code, State Fire Marshal Fire Safety Regulations and related Oregon revised statutes, National Fire Prevention Association, and other codes relating to fire prevention and life safety.

Prerequisite: Instructor approval.**FALL 2019; OFFERED EVERY OTHER YEAR****FRP 174****FIRE INVESTIGATION I****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the firesetter, and types of fire causes.

Prerequisite: Instructor approval.**OFFERED AS NEEDED****FRP 181****FIRE PREVENTION****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students will develop fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education.

SPRING 2020; OFFERED EVERY OTHER YEAR

FRP 190

INTRODUCTION TO WILDLAND FIREFIGHTING

(42.00 Lecture, 8.00 Lab Hrs.; 50 Hrs. Total)

4 Credits

Students will develop the skills needed to be safe and effective firefighters in wildland fire situations. These skills will include situational awareness, basic communication responsibilities, teamwork principles, attitude and stress barriers, the decision-making process, wildland safety, wildland firefighter preparedness, tools and equipment, firing devices, the use of water, suppression techniques, use of maps, securing the control line, scouting, standards for survival, hazmat, wildland tactics, fireline reference materials, documenting activities, fireline communications, environmental effects on the start and spread of wildland fires, and how to recognize potentially hazardous situations in wildland situations. Students who successfully complete this course will have met the standards for the National Wildfire Coordinating Groups classes of L-180, S-130, S-131, and S-190.

OFFERED AS NEEDED**GS** GENERAL SCIENCE

GS 104

PHYSICAL SCIENCE - PHYSICS

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students gain a solid understanding of the scientific endeavor to make intelligent and informed decisions. This course uses guided inquiry and student projects to study motion, force, charge, magnets, and lightning. For non-science majors and pre-service teachers

Prerequisite: MTH 70.**FALL 2018, 2019**

GS 105

PHYSICAL SCIENCE – CHEMISTRY

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students understand and apply the principles that govern the behavior of matter due to molecular cause, as an introductory foundation for study in the sciences and engineering. Students will learn and demonstrate both qualitative and quantitative understanding of stoichiometry, periodicity, atomic and molecular structure, formulas and equations, chemical bonding, and chemical reactions. This course is intended to be an introduction to the science of chemistry and the impact chemistry has on the world around us.

Prerequisite: MTH 70.**SUMMER 2019, 2020**

GS 106

PHYSICAL SCIENCE - GEOLOGY

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students gain a solid understanding of the scientific endeavor to make intelligent and informed decisions. This course uses guided inquiry and student projects to study topics on; volcanoes, tsunamis, minerals and energy resources. For non-science majors and pre-service teachers.

Prerequisite: MTH 70.**FALL 2018, 2019**

GS 108

PHYSICAL SCIENCE - OCEANOGRAPHY

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students will use guided inquiry and projects to study topics on: physical oceanography, marine geology, marine biology and marine chemistry. This course is not intended for oceanography majors but can be used as an elective for science majors

Prerequisite: MTH 60 and WR 121.**OFFERED AS NEEDED**

GS 109

PHYSICAL SCIENCE - METEOROLOGY

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students gain a solid understanding of the scientific endeavor to make intelligent and informed decisions. This course uses guided inquiry and student projects to study topics on heat, cloud formation, climate and the greenhouse effect. For non-science majors and pre-service teachers.

Prerequisite: MTH 70.**SPRING 2019, 2020**

GS 112

CHEMISTRY & CELL BIOLOGY

(4.00 Lecture, 3.00 Lab Hrs./Wk.)

5 Credits

Students learn and apply fundamental science processes, learn major concepts of contemporary biology and chemistry especially as related to allied health and work toward developing science literacy. Students learn basic concepts of matter, intermolecular forces, solutions, pH and other cell chemistry, cell anatomy and physiology, cell reproduction and contemporary genetics. Students apply science processes to health-related problems. Although this course emphasizes allied health applications, it transfers as a general education lab science. GS 112 serves as a prerequisite to BI 231 (Anatomy and Physiology) and BI 234 (Microbiology). (Dental Hygiene and Dental Assistant students should take a CH 104-106 series.)

Prerequisite: MTH 070 or higher with a grade of P or C or better.**SUMMER 2018, 2019; FALL 2018; WINTER 2020; SPRING 2019, 2020**

GS 120

PHYSICAL SCIENCE – ATMOSPHERIC PHENOMNA

(3.00 Lecture, 3.00 Lab Hrs./Wk.)

4 Credits

Students gain a solid understanding of the scientific endeavor to make intelligent and informed decisions. This course uses guided inquiry and student projects to study topics on; light, rainbows, crystals, and snowflakes. For non-science majors and pre-service teachers.

WINTER 2019, 2020

GS 161

FIELD BIOLOGY OF OREGON

(20.00 Lecture, 20.00 Lecture/Lab Hrs. Total)

3 Credits

Students will conduct field-oriented surveys of several Oregon ecosystems. Students will study coastal dunes, several forest systems, coastal riparian zones, wetlands, estuaries, and the rocky intertidal.

OFFERED AS NEEDED**HD** HUMAN DEVELOPMENT

HD 096

PROGRAMA DETRANSICIONES COSTA UNO

(2.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

3 Credits

This course mirrors the Lives in Transition program by providing similar career, life and educational planning for Spanish speakers. Students focus on self-exploration and development of life-planning skills. By analyzing predictable life transitions, students develop and learn how to integrate skills in goal setting, decision making, and plan implementation for personal growth and career planning. Introduces non-traditional careers and careers in the professional and technical trades.

Prerequisite: Approval of Lives in Transition Director.**OFFERED AS NEEDED**

HD 98

PROGRAMA DETRANSICIONES COSTA DOS

(2.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

3 Credits

This course mirrors the Lives in Transition program by providing similar career, life and educational planning for Spanish speakers. Students focus on self-exploration and development of life-planning skills. By analyzing predictable life transitions, students develop and learn how to integrate skills in goal setting, decision making, and plan implementation for personal growth and career planning. Introduces non-traditional careers and careers in the professional and technical trades.

Prerequisite: Approval of Lives in Transition Director.

OFFERED AS NEEDED

HD 100

COLLEGE SURVIVAL & SUCCESS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students develop attitudes, skills, and strategies known to promote college success, including goal setting, time management and other personal skills; critical/creative thinking, personal learning style; note taking, study techniques, test taking; and use of college resources.

Prerequisite: LA 090, or see advisor for placement score approval. Work is set at university level.

OFFERED AS NEEDED

HD 101

PLANNING A COURSE OF STUDY

(2.00 Lecture/Lab Hrs./Wk.)

1 Credit

Students refine their academic and personal goals and plan out a course of study in postsecondary education. They also develop critical thinking skills and strategies necessary to successfully approach standardized and course assessments at the postsecondary level. In addition, they examine perception, organizational, and environmental factors that affect decision making, and review selected decision making models that can be used to make informed academic, career, and other life choices.

OFFERED AS NEEDED

HD 102

FINANCIAL PLANNING FOR COLLEGE

(20 Lecture Lab Hrs. Total)

2 Credits

Traditional age students examine the costs of postsecondary education and learn the strategies for maximizing the financial assistance they can rely upon to cover those costs. They learn about the factors contributing to rising educational costs and how they can address those costs. In addition, they learn how to plan for any debt they will incur at the postsecondary education level.

HD 103

PERSONAL MANAGEMENT SKILLS FOR COLLEGE SUCCESS

(20 Lecture Lab Hrs. Total)

2 Credits

Students identify and use personal management strategies for college and lifelong learning. Students examine various sources of stress, learn how to manage stress more effectively, explore time management strategies to use study and free time more efficiently, identify postsecondary support systems that will be available to them, and become familiar with postsecondary academic standards to which they will be held.

OFFERED AS NEEDED

HD 110

CAREER PLANNING

(2.00 Lecture Hrs./Wk.)

2 Credits

Students prepare to make informed career choices by clarifying their personality, values, and general abilities; exploring present and future career opportunities; setting career and educational goals; and developing a career action plan.

OFFERED AS NEEDED

HD 160

OVERCOMING BARRIERS: A HOLISTIC APPROACH TO STUDENT SUCCESS

(2.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

3 Credits

This class is part of the two-class, six-credit Lives in Transition Program. In this class, students engage in fundamental ideas and practices to overcome barriers to success. Throughout the class, students identify personal and educational goals as well as barriers that have, or may disrupt successful completion of their goals. Students critically analyze values and ethics associated with personal barriers. Activities, classroom discussion and assignments augment the learning process. The class fosters individual expression using analysis, synthesis and critical evaluation about techniques to overcome barriers and establish skills for success within the college environment.

Prerequisite: Approval of Lives in Transition Director.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020; OFFERED AS NEEDED

HD 202

LIFE TRANSITIONS

(2.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students focus on self-exploration and development of life-planning skills. By analyzing predictable life transitions, students develop and learn how to integrate skills in goal setting, decision making, and plan implementation for personal growth and career planning. Introduces non-traditional careers and careers in the professional and technical trades.

Prerequisite: Approval of Lives in Transition Director.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020; OFFERED AS NEEDED

HD 209

GET THE JOB YOU WANT

(3.00 Lecture Hrs/Wk.)

3 Credits

Students will develop techniques for résumé writing, completing job search letters and applications. Participate in interviewing which may include videos, role-playing and one-on-one/panel interviews. Complete career exploration through CIS, job shadows and informational interviews as well as an assessment of current skills. How to locate the hidden job market, network and use other techniques for a successful job search. Learn about employer expectations, how to accept and keep a job and dressing for success. Attention to soft skills such as communication, time management and other factors that assist in finding and keeping a job.

OFFERED AS NEEDED

HPE HEALTH & PHYSICAL EDUCATION**HPE 295****HEALTH AND FITNESS FOR LIFE****(2.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)****3 Credits**

Students develop an understanding of the relationship between optimal health, wellness and physical fitness by gaining knowledge of the interacting roles of physical fitness, nutritional status and the ability to cope with stress.

Prerequisite: MTH 60 recommended.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****HS HUMAN SERVICES****HS 101****ALCOHOL USE, ABUSE AND ADDICTION****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn concepts and perspectives about alcohol abuse and dependence based on a bio-psycho-social approach to alcohol problems. Pharmacology of the drug, models of addiction progression, personal impact on the user and family, and treatment approaches are stressed.

OFFERED AS NEEDED**HS 102****DRUG USE, ABUSE AND ADDICTION****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students gain knowledge about mind and mood altering aspects of drugs. Pharmacological, biological, social and psychological factors that affect body, brain and behavior are addressed, along with various models of the progression of addiction and treatment.

Prerequisite: HS 101 highly recommended.**OFFERED AS NEEDED****HS 110****PROFESSIONAL ETHICS****(3.00 Lecture Hrs./Wk.)****3 Credits**

This course provides an overview of professional ethics governing the field of counseling, to include ethical decision-making, confidentiality and informed consent, competence and supervision, malpractice, self-care, and medical ethics. The course includes a careful review of the American Counseling Association and American Mental Health Counselors Association Codes of Ethics. This course emphasizes application of ethical principles to ethical dilemmas commonly encountered in the field of counseling.

OFFERED AS NEEDED**HS 115****SUBSTANCE ABUSE PREVENTION****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn about substance abuse prevention theories and prevention programming applications. Covers theories and models basic to prevention, evidence-based prevention strategies and model programs, and evaluations of outcomes.

OFFERED AS NEEDED

Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with a “♦” symbol.

HS 141**PHARMACOLOGY OF PSYCHOACTIVE SUBSTANCES****(3.00 Lecture Hrs./Wk.)****3 Credits**

This course reviews the central nervous system and explores how psychoactive substances affect this system. It also defines pharmacology and examines the classifications and names of commonly abused psychoactive drugs. Finally, the course the clinical signs, symptoms, and behaviors that accompany chemical use, abuse or dependence.

OFFERED AS NEEDED**HS 154****COMMUNITY RESOURCES****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn about the history, purpose, philosophy, and values of community services developed for people with various disadvantages or disabilities. Students also become knowledgeable about local social service agencies and organizations and how to refer clients to them.

OFFERED AS NEEDED**HS 155****INTERVIEWING SKILLS FOR SOCIAL SERVICES****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn the theoretical background and practice related techniques for establishing and maintaining an effective professional helping relationship. Skills are learned via instruction, modeling and simulated role play in the classroom.

OFFERED AS NEEDED**HS160****INTERVIEWING SKILLS II****(3.00 Lecture Hrs./Wk.)****3 Credits**

This course focuses on conceptual skills needed to become an effective professional. The conceptual skills covered in this course enable students to develop a positive therapeutic alliance, to assess and understand their clients, to see patterns, to comprehend the links between the past and the present and to use technical skills to develop meaningful treatment plans. This course helps student reach mastery level.

OFFERED AS NEEDED**HS 165****MOTIVATIONAL INTERVIEWING****(3.00 Lecture Hrs./Wk.)****3 Credits**

This course is designed to facilitate the acquisition of motivational interviewing counseling skills as applied to addiction counseling. Motivational interviewing (MI) is a method that works on facilitating and engaging intrinsic motivation within the client in order to change behavior. MI is a goal-oriented, client-centered counseling style for eliciting behavior change by helping clients to explore and resolve ambivalence.

OFFERED AS NEEDED**HS 200****FAMILY DYNAMICS OF ADDICTION****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn to use models of family process to understand the effects of chemical dependency on the whole family: addictive behavior in the family system, family dynamics, roles, therapeutic interventions, and considerations for recovery HS 201 is best taken after HS 101 or 102.

Prerequisite: HS 101 or HS 102 are highly recommended.**OFFERED AS NEEDED**

HS 202
(3.00 Lecture Hrs./Wk.) **3 Credits**
BASIC COUNSELING

This course introduces basic skills required for establishing an effective professional helping relationship. It provides an opportunity to demonstrate a minimum level of facilitative skills. Demonstrate competency in responding to client behavior, content, feelings, and meaning through in-class practice.

OFFERED AS NEEDED

HS 205
COUNSELING SPECIAL POPULATIONS
(3.00 Lecture Hrs./Wk.) **3 Credits**

This course examines addiction, substance use and abuse from an adolescent, female, and male point of view. Explores assessment and treatment planning appropriate for adolescents (including ethical and legal ramifications), models of treatment and recovery specific to the needs of women and the relationship of substance abuse to social issues, and the biological, cultural, and sociological origins of male roles for understanding the mental health, sexuality, addiction, and criminal behavior of men. Also details essential elements of a treatment model for boys and men.

OFFERED AS NEEDED

HS 210
AGING AND ADDICTION
(3.00 Lecture Hrs./Wk.) **3 Credits**

This course covers drug and alcohol addiction among older adults, including prescription and other drugs, and alcohol, used either alone or in combination. As tolerance to the effects of alcohol and other drugs decline, aging adults have higher risk factors. Addresses issues specific to aging, including late onset addiction, effects of use on performance of activities of daily living, treatment issues, and co-occurring disorders such as depression or other chronic illnesses. A multicultural perspective is explored, including the role of social class and gender issues.

OFFERED AS NEEDED

HS 215
CASE MANAGEMENT
(3.00 Lecture Hrs./Wk.) **3 Credits**

Students learn the knowledge and skills needed to plan treatment and manage client records. The course explores methods for making decisions regarding goals and objectives to be reached by clients during and after treatment. The course also covers all aspects of client record management including federal and state regulations and American Society of Addiction Medicine (ASAM) placement criteria.

OFFERED AS NEEDED

HS 220
COUNSELING THEORIES
(3.00 Lecture Hrs./Wk.) **3 Credits**

This course covers the basic theories of counseling, emphasizing treatment of addiction. Developmental model of recovery is used as a basis for discussion. Developmental model of recovery is used as a basis for discussion and comparison of the various theories is also covered.

OFFERED AS NEEDED

HS225
GROUP COUNSELING
(3.00 Lecture Hrs./Wk.) **3 Credits**

This course exposes students to the concepts of group process, group development and leader facilitation skills. It emphasizes group therapy and the role of the addiction counselor.

OFFERED AS NEEDED

HS230
SMOKING CESSATION
(3.00 Lecture Hrs./Wk.) **3 Credits**

This course presents an overview of nicotine addiction and specific evidenced based practices that contribute to successful smoking cessation efforts.

OFFERED AS NEEDED

HS 233
CRIME AND ADDICTION
(3.00 Lecture Hrs./Wk.) **3 Credits**

This course examines the relationship between substance abuse issues and criminal behavior. This examination includes assessment of risk for criminal behavior and the likelihood of reoffending and evidenced based treatment protocols relevant to the addicted criminally involved person with special emphasis on Cognitive Behavioral Therapy.

OFFERED AS NEEDED

HS 235
MULTICULTURAL COUNSELING
(3.00 Lecture Hrs./Wk.) **3 Credits**

This course broadens a student's awareness and understanding of the key roles that a client's culture, identity, ethnicity, race, gender, and other aspects of diversity play in the counseling process. Learning culturally-competent counseling practices, current theoretical approaches, and practicing self-reflection in this area will help students acquire the skills necessary to engage a diverse clientele.

OFFERED AS NEEDED

HS240
HIV-AIDS RISK ASSESSMENT AND PREVENTION
(3.00 Lecture Hrs./Wk.) **3 Credits**

Explores the relationship between alcohol and other drug abuse and infectious diseases, including HIV/AIDS, tuberculosis, sexually-transmitted diseases and hepatitis. Provides counseling techniques for assisting clients to identify personal risk and practice harm reduction. Also addresses special issues affecting diverse populations. Examines personal issues/discomforts arising from frankly discussing sexual behaviors of clients.

OFFERED AS NEEDED

HS 242
MULTIPLE DIAGNOSIS
(3.00 Lecture Hrs./Wk.) **3 Credits**

This course covers assessment of chemical dependency clients for communicable diseases and co-existing mental disorders, effective intervention, and referral of clients to optimum resources for resolving coexisting diagnoses. Develops clear ethical guidelines for alcohol and drug counselors practicing within an area of competence.

OFFERED AS NEEDED

HST HISTORY

♦ **HST 101**
HISTORY OF WESTERN CIVILIZATION
(3.00 Lecture Hrs./Wk.) **3 Credits**

Students gain knowledge of the origins and development of civilization from ancient times to the beginnings of Medieval Europe, circa 600 A.D., against the background of Eurasia.

FALL 2018, 2019

♦ **HST 102**
HISTORY OF WESTERN CIVILIZATION
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students develop an understanding of the cultural, social, economic, and political development of Western civilization from 500 A.D. to 1750 A.D. against the background of Eurasia and the world.
WINTER 2019, 2020

♦ **HST 103**
HISTORY OF WESTERN CIVILIZATION
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students develop an understanding of the cultural, social, economic, and political development of Western civilization from 1750 to the present against the background of Eurasia and the world.
SPRING 2019, 2020

♦ **HST 104**
WORLD HISTORY I: ANCIENT AND EARLY MIDDLE AGES
 (4.00 Lecture Hrs./Wk.) **4 Credits**
 Students survey the historical development of world civilizations from antiquity to 1000 C.E. Students explore religious, cultural, social, political, and economic institutions of various societies. Students develop a diverse historical analysis of both ancient Western and non-Western civilizations.
OFFERED AS NEEDED

♦ **HST 105**
WORLD HISTORY II: LATE MIDDLE AND EARLY MODERN AGES
 (4.00 Lecture Hrs./Wk.) **4 Credits**
 Students survey the historical development of several world civilizations from 1000 to 1750 C.E. Students also explore religious, cultural, social, political, and economic institutions of various societies. Students develop a diverse historical analysis of the late middle and early modern ages of both Western and non-Western civilizations.
OFFERED AS NEEDED

♦ **HST 106**
WORLD HISTORY III: THE MODERN AND CONTEMPORARY WORLD
 (4.00 Lecture Hrs./Wk.) **4 Credits**
 Students survey the historical development of several world civilizations from 1750 to the contemporary period. Students also explore religious, cultural, social, political, and economic institutions of various societies. Students develop a diverse historical analysis of modern periods of both Western and non-Western civilizations.
OFFERED AS NEEDED

♦ **HST 201**
HISTORY OF THE UNITED STATES
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students develop an understanding of the political, economic, intellectual, and cultural history of the United States from prehistory to 1820.
FALL 2018, 2019

♦ **HST 202**
HISTORY OF THE UNITED STATES
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students survey the political, social, and cultural history of the United States between 1820 and 1898. Emphasis will be placed on the debate and crisis of slavery and abolitionism, expansionism, the Civil War, Reconstruction, the rise of industry and the resort to empire in 1898.
WINTER 2019, 2020

♦ **HST 203**
HISTORY OF THE UNITED STATES
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students survey the political, economic, intellectual, and foreign relations history of the United States during the twentieth century.
SPRING 2019, 2020

HST 218
NATIVE AMERICAN HISTORY
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students explore the history of Native Americans as they come into contact with European-Americans. Students learn the response to the contact, and the differences between the cultures and the struggles against reservation, assimilation, and termination. Students also address current Native American issues.
OFFERED AS NEEDED

HST 245
LEWIS & CLARK COURSE OF DISCOVERY
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students will begin by following the vision of Thomas Jefferson acquiring the Louisiana Territory. As the expedition proceeds on, Lewis and Clark make preparation by putting together their tools and team. Students follow the expedition across unmapped territory experiencing challenges with weather, geography, natives, and each other. In conclusion, students review the accomplishments and impacts of the Lewis and Clark expedition.
OFFERED AS NEEDED

HST 277
HISTORY OF THE OREGON TRAIL
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students study the explosion of emigration which spread from the United States to the West Coast in the 1800's. More importantly, students look at the motivations of those who emigrated, the various trails, life along the trail, and the impact of emigration.
OFFERED AS NEEDED

HUM HUMANITIES

♦ **HUM 101**
INTRODUCTION TO HUMANITIES I
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students will gain an understanding of the ideas and modes of vision that Western culture has inherited from the classical, medieval, and Renaissance periods. Readings and discussions focus on literature, philosophy, history, art, music, and religion.
OFFERED AS NEEDED

♦ **HUM 102**
INTRODUCTION TO HUMANITIES II
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students will use a topical and interdisciplinary approach to an understanding of Western culture. Students will examine the art, literature, drama, history, and music regarding some aspect of human behavior such as war, crime, evil, marriage, disease, etc.
OFFERED AS NEEDED

♦ HUM 103

INTRODUCTION TO HUMANITIES III

(3.00 Lecture Hrs./Wk.)

3 Credits

Students will learn about literature, history, language, geography, music and art of a particular human culture.

OFFERED AS NEEDED

HUM 115

HISTORY OF MATHEMATICS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students understand the importance of mathematics in world cultures throughout history. The mathematics of Ancient Egypt, Mesopotamia, India and China are explored as well as the mathematics of medieval Arab culture and the transmission of that knowledge to Europe. Students explore the development of European mathematics throughout the Renaissance, Enlightenment, Industrial Revolution and the 20th century.

Prerequisites: MTH 060, or see advisor for placement score approval.

OFFERED AS NEEDED

IT

INDUSTRIAL & MANUFACTURING TECH.

Other Automotive classes listed under Automotive Technology (AUTO).

IT 110

APPLIED TECHNOLOGY PROJECTS

(20.00 Lecture/Lab Hrs./Cr.)

1-3 Credits

Students advance the laboratory skills and apply theories they have learned from other professional technical classes.

Prerequisite: Instructor approval.

SPRING 2019, 2020

IT 140

INDUSTRIAL SAFETY

(20 Lecture/Lab Hrs. Total)

1 Credit

Students use a competency-based program to develop and maintain safe work habits while engaged in various industrial job settings following OSHA guidelines. An overview is provided for the safe use of tools/equipment commonly found in the fabrication/construction industry. Students must demonstrate competency before entering the shop.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

LA

LANGUAGE ARTS

LA 090

FOUNDATIONAL LANGUAGE SKILLS

(6.00 Lecture/Lab Hrs./Wk.)

3 Credits

Students learn to use language skills to read effectively, think clearly, and write properly in preparation for college-level study. Students incorporate skill building in reading comprehension, vocabulary development, grammatical accuracy, and composition. This is the beginning language arts course. See advisor for placement score approval.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

LIB

LIBRARY

LIB 127

LIBRARY RESEARCH SKILLS

(1.00 Lecture Hr./Wk.)

1 Credit

In this introduction to finding and utilizing information, students will build skills in searching the library catalog, journal databases, and Internet resources. Students will learn how to construct an effective search strategy, evaluate sources of information, and use and cite information correctly.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MA

MEDICAL ASSISTANT

MA 112

MEDICAL ASSISTANT: CLINICAL PROCEDURES I

(2.00 Lecture, 3.00 Lab Hrs./Wk.)

3 Credits

Students demonstrate knowledge and skills necessary to provide basic care to clients and work in medical office or clinic settings.

Prerequisites: Instructor permission only. Students MUST meet with instructor to complete a pre-admission checklist. Students must also have completed MA 127 and MA 120 with a grade C or better or be concurrently enrolled in both courses.

FALL 2018

MA 113

MEDICAL ASSISTANT: CLINICAL PROCEDURES II

(2.00 Lecture, 6.00 Lab Hrs./Wk.)

4 Credits

Students demonstrate increasing knowledge and skills necessary to provide care to clients and work in medical office or clinic settings, including: preparing clients for examinations and procedures; performing diagnostic tests; recognizing and responding appropriately to emergencies; client teaching; and office management.

Prerequisite: MA 112, MA 127 and MA 120 with a "C" grade or better; completion of (with a C grade or better) or concurrently enrolled in MA 121. Co-requisite: Concurrently enrolled in MA 133.

WINTER 2019

MA 115

PHARMACOLOGY FOR MEDICAL ASSISTANTS

(3.00 Lecture Hrs./Wk.)

3 Credits

Students acquire and demonstrate knowledge of basic principles and practice of pharmacology and administering drugs. They identify roles and responsibilities of the medical assistant in safely administering selected medications by various routes. In addition, students will study medications related to each of the following classifications: vitamins, minerals and herbs, skin, nervous system, urinary system, gastrointestinal system, anti-infective, analgesics, sedatives and hypnotics, psychotropic meds, musculoskeletal, anticonvulsants, reproductive system, cardiovascular, and respiratory.

Prerequisite: MA 113 and MA 121 and either MTH 065, 095, 111 or higher with a C grade or higher; completion of (with a grade C or higher) or concurrently enrolled in MA 231.

SPRING 2019

Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with a "♦" symbol.

MA 120

BODY STRUCTURE AND FUNCTION I

(4.00 Lecture Hrs./Wk.)

4 Credits

Students learn terminology in its proper context, including structure and function of the human body in health and disease. Students will learn basic word structure to guide them in the study of medical language. In addition, a review of each body system will be conducted to include medical words, their components and basic structure and function.

FALL 2018

MA 121

BODY STRUCTURE AND FUNCTION II

(4.00 Lecture Hrs./Wk.)

4 Credits

Students learn terminology in its proper context, including structure and function of the human body in health and disease. An examination of the following systems to include word forms, prefixes, suffixes, basic structure in health and disease will be completed: nervous system, cardiovascular system, respiratory system, blood system, lymphatic system, musculoskeletal system, sensory system, and endocrine system.

Prerequisite: MA 120 with a C grade or higher.**WINTER 2019**

MA 127

OFFICE SKILLS / MEDICAL OFFICE

(5.00 Lecture Hrs./Wk.)

5 Credits

Students will become experienced in the areas of entry-level office procedures such as telephone techniques including etiquette, patient scheduling, office organization, office communication, the use of office machinery such as faxes and multi-line phones while providing for patient privacy and confidentiality. In addition, an introduction to computer systems, patient medical records, software and billing, coding and insurance procedures will be explored.

Prerequisite: Contact your advisor regarding reading placement score or completed college level course with a "C" or better.**FALL 2018**

MA 133

MEDICAL ASSISTANT CLINICAL PRACTICUM I

(12.00 Lab Hrs./Wk.)

4 Credits

Students apply knowledge and skills in a medical office setting to provide direct care for patients and to support office functions.

Prerequisite: MA 112, MA 127 and MA 120 with a C grade or higher; completion with a C grade or higher of, or concurrently enrolled in MA 121 and MA 113.**WINTER 2019**

MA 231

MEDICAL ASSISTANT CLINICAL PRACTICUM II

(15.00 Lab Hrs./Wk.)

5 Credits

Students apply increasing knowledge and skills in a medical office setting. Students demonstrate increasing independence in providing direct care for patients and supporting office functions.

Prerequisite: MA 113 and MA 121 with a C grade or higher; completion (with a grade C or higher) of or concurrently enrolled in MA 115.**SPRING 2019****MAS** MARITIME SCIENCE

HM 120

HAZWOPER TRAINING

(12 Lecture, 12 Lab Hrs.; 24 Hrs. Total)

1 Credit

Students learn and practice terminology, toxicology, hazard evaluation, chemical identification systems, personal protective equipment and hazardous waste site operations. Meets Federal requirement for HAZWOPER training as outlined in the Code of Federal Regulations, Part 29.

SPRING 2019, 2020

MAS 100

MARITIME OCCUPATIONS

(40 Lecture/Lab Hrs. Total)

2 Credits

Students demonstrate and apply skills in safe seamanship onboard the training vessel Forerunner while learning about the Columbia River Estuary and its user groups. Students will learn how to apply to the US Coast Guard for an Ordinary Seaman Merchant Mariner's Document. For students who are interested in maritime occupations such as towing, commercial fishing, passenger vessels, or research.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 101

EXPLORING MARINE TECHNOLOGY

(20 Lecture/Lab Hrs. Total)

1 Credit

Students learn to operate scientific data collection equipment while collecting real scientific data that will be used in an ongoing study of the Lower Columbia River.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020**

MAS 120

U.S. COAST GUARD MARINE LICENSE TRAINING

(20 Lecture, 20 Lecture/Lab Hrs.; 40 Hrs. Total)

3 Credits

Students demonstrate knowledge of the information contained on U.S. Coast Guard examinations, Master or Mate (limited tonnage) near coastal and/or inland waters. Note: This course is U.S. Coast Guard approved to be taken in lieu of testing for licenses not to exceed 200 gross tons. A total of nine (9) credits of any MAS licensing course may be applied toward the AGS degree, Associate degree, and the One-Year Maritime Science certificate.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 121

ABLE SEAMAN TRAINING

(80 Lecture/Lab Hrs. Total)

4 Credits

Students learn and practice the skills required to pass the US Coast Guard (USCG) Merchant Marine exam for Able Bodied Seaman. Upon successful completion of this training, the student will receive a certificate of completion that satisfies the USCG testing requirements for Able Bodied Seaman any rating. It is highly recommended that students have their Merchant Mariner's application approved by the USCG before enrolling in this course.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020**

MAS 122**OUPV TRAINING****(80 Lecture/Lab Hrs. Total)****4 Credits**

Students learn and practice the skills required to pass the US Coast Guard (USCG) Merchant Mariner Exam for Operator of Uninspected Passenger Vessel (OUPV). Upon successful completion of this training course, the student will receive a certificate of completion that satisfies the USCG testing requirements for OUPV. To insure that the student meets the USCG licensing requirements it is strongly recommended that students have received their USCG approval for OUPV prior to enrolling in the class.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****MAS 123****100 TON MASTER TRAINING****(100 Lecture/Lab Hrs. Total)****5 Credits**

Students learn and practice the skills required to pass the US Coast Guard (USCG) Merchant Mariner exam for Master of Inspected Vessels of not more than 100-gross ton (100-ton Master). Upon successful completion of this training course, the student will receive a certificate of completion that satisfies the USCG testing requirements for licenses within the scope of the course. To insure that the student meets the USCG licensing requirements it is strongly recommended that students have received their USCG approval prior to enrolling in the class.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****MAS 124****200 TON MASTER TRAINING****(120 Lecture/Lab Hrs. Total)****6 Credits**

Students learn and practice the skills required to pass the US Coast Guard (USCG) Merchant Mariner Exam for Master of Inspected Vessel not to exceed 200-gross ton. Upon successful completion of this training course, the student will receive a certificate of completion that satisfies the USCG testing requirements for licenses within the scope of the course. To insure that the student meets the USCG licensing requirements it is strongly recommended that students have received their USCG approval prior to enrolling in the class.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****MAS 125****500/1600/UNLIMITED LICENSE PREP****(40 Lecture/Lab Hrs. Total)****2 Credits**

This course is for professional mariners who wish to review examination subjects prior to testing at the US Coast Guard Marine Safety Office for an upgrade increase in scope of an existing license. Students purchase time in forty-hour blocks to meet training objects determined through sample exams and evaluations. This course may be purchased up to four times depending on the extent of the training needs of the student. Testing is completed at a USCG Marine Safety Office. It is highly recommended that students have their USCG approval for the license prior to training. Additional classes may be required to satisfy the STCW requirements. Course may be taken up to four (4) times for a total of eight (8) credits.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****MAS 126****OCEANS ENDORSEMENT PROGRAM****(80 Lecture/Lab Hrs. Total)****4 Credits**

Students learn and practice the skills required to pass the US Coast Guard (USCG) Merchant Mariner Exam for an Ocean's Endorsement. Upon successful completion of this course the student will receive a certificate of completion that is accepted, in lieu of testing, at the USCG Marine Safety Office, for an ocean endorsement on a license up to and including 1600 ton master of inspected vessels.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****MAS 128****APPRENTICE MATE (STEERSMAN)****(120 Lecture/Lab Hrs. Total)****6 Credits**

This U.S. Coast Guard approved Apprentice Mate (Steersman) course meets or exceeds the requirements to attain certification under the standards set forth by the U.S. Coast Guard. Students demonstrate skills and knowledge needed to operate effectively as an Apprentice Mate (Steersman).

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****MAS 130****RADAR OBSERVER: ORIGINAL ENDORSEMENT, UNLIMITED****(10 Lecture, 30 Lab Hrs.; 40 Hrs. Total)****2 Credits**

Students acquire knowledge, understanding proficiency in radar operations, collision avoidance second navigation by radar through lecture, demonstration and transfer plotting, using radar simulators. Students engage in the simulator use of Automatic Radar Plotting Aids (ARPA). The U.S. Coast Guard approved courses meets or exceeds the minimum level of knowledge specified in the U.S. Coast Guard STCW and IMO requirements for ARPA.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020**MAS 131****RADAR OBSERVER: RECERTIFICATION****(24 Lecture/Lab Hrs. Total)****1 Credit**

Students renew proficiency in plotting problems for collision avoidance, navigation, second radar operation and operation of radar. Note: For individuals who would like to refresh their skills before taking the radar endorsement final exam.

Prerequisite: Radar Observer Certification.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****MAS 132****RADAR OBSERVER: RIVERS****(24 Lecture/Lab Hrs. Total)****1 Credit**

Students gain knowledge, understanding second proficiency required to safely navigate a vessel, with the aid of radar, upon rivers covered by the Inland Navigation Rules of the Road.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020**MAS 133****ARPA TRAINING (AUTOMATIC RADAR PLOTTING AIDS)****(32 Lecture/Lab Hrs. Total)****1 Credit**

Students demonstrate the knowledge of the principles and application of ARPA (Automatic Radar Plotting Aids). The U.S. Coast Guard approved course meets or exceeds the minimum level of knowledge specified in the US Coast Guard, STCW and IMO requirements for ARPA.

Prerequisite: Unlimited radar observer endorsement.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020**

MAS 134
STCW GMDSS TRAINING (GLOBAL MARINE DISTRESS SAFETY SYSTEM)
(70 Lecture/Lab Hrs. Total) 3 Credits
 Students demonstrate knowledge and skill in the proper use of GMDSS communications systems and other GMDSS equipment such as Emergency Position Indicating Radio Beacons (EPIRB's), and Search and Rescue Transponder (SART). This U.S. Coast Guard approved course meets or exceeds the minimum level of knowledge specified in the US Coast Guard, STCW and IMO requirements for training in Global Marine Distress Safety System (GMDSS).
Prerequisite: Instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 135
STCW BASIC TRAINING
(20 Lecture, 20 Lecture/Lab Hrs.; 40 Hrs. Total) 3 Credits
 Students demonstrate knowledge and practical application of the skills required by the U.S. coast Guard for all persons employed on offshore vessels. Skill areas include safe work habits, proper use of safety and survival equipment, basic firefighting and first aid.
Prerequisite: Instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 136
STCW BRIDGE RESOURCE MANAGEMENT
(12 Lecture, 12 Lecture/Lab Hrs.; 24 Hrs. Total) 1 Credit
 This Coast Guard approved, STCW Bridge Resource Management course meets or exceeds the requirements to attain certification under the standards set forth by the U.S. Coast Guard, and STCW95 IMO regulations. Students demonstrate skills and knowledge needed to operate effectively in an operational shipboard bridge environment.
Prerequisite: Instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 137
RADAR NAVIGATION
(10 Lecture, 22 Lecture/Lab Hrs.; 32 Hrs. Total) 2 Credits
 Students demonstrate an understanding of radar theory and operation. Students will use radar/ARPA simulators for navigation and collision avoidance exercises. Students will demonstrate knowledge of previously learned navigation and plotting skills.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 138
STCW PROFICIENCY IN SURVIVAL CRAFT
(10 Lecture, 22 Lecture/Lab Hrs.; 32 Hrs. Total) 2 Credits
 Course satisfies the requirements of 46 CFR 12.10-5 and section A-VI/2 and table A-VI/2-1 of the STCW-95 code provided the student has completed the personal survival techniques and elementary first aid modules of Basic Safety Training (BST). Students must bring proof of completion of these BST modules to be issued a "Proficiency in Survival Craft" (Lifeboatman) certificate. Students will be required to handle the launch of a lifeboat and perform all tasks required of a lifeboat crew.
Prerequisite: Instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 139
STCW BASIC FIREFIGHTING
(16 Lecture/Lab Hrs. Total) 1 Credit
 A trainee successfully completing this course will be able to minimize the risk of fire, maintain a state of readiness to respond to emergency situations involving fire and fight & extinguish shipboard fires.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 144
STCW ADVANCED FIREFIGHTING
(32 Lecture/Lab Hrs 32 Hrs. Total) 2 Credits
 Students demonstrate knowledge and practical application of the basic fire fighting skills required by the U.S. Coast Guard for all persons employed on offshore vessels. Skill areas include theory of fire, prevention techniques and response/suppression.
Prerequisite: MAS 139.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 146
VESSEL OPERATIONS
(10 Lecture, 30 Lab Hrs.; 40 Hrs. Total) 2 Credits
 Students gain practical experience by participating in the operation of the college's fifty-foot training vessel. Activities include preparing for the trip; securing the vessel after the trip; and operations while underway. Many activities are conducted at sea, weather permitting.
Prerequisite: Instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 147
VESSEL REGULATIONS
(60 Lecture/Lab Hrs. Total) 3 Credits
 Students learn to use the Code of Federal Regulations for Marine Transportation (46 CFR) for owner/operator drills and inspection and the preparation of a vessel for US Coast Guard inspection.
Prerequisite: Instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 148
VESSEL STABILITY
(60 Lecture/Lab Hrs. Total) 3 Credits
 Students demonstrate and apply the principles of stability, including free surface effect, center of gravity, effects of loading, and the rolling period.
Prerequisite: Instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 150
CREWMEMBER MARINE SAFETY TRAINING
(10 Lecture, 30 Lab Hrs.; 40 Hrs. Total) 2 Credits
 Students demonstrate mastery of the skills and techniques needed for prevention and treatment of cold water near drowning and hypothermia; cold-water survival skills; sea survival; fire fighting and emergency drills; orientation; and emergency instructions.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 151
STCW BASIC TRAINING REFRESHER
(24 Lecture/Lab Hrs.) 1 Credit
 This course meets the USCG requirements for individuals required to take a BST refresher course for license renewal.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 155
INTRODUCTION TO WATCHKEEPING
(10 Lecture, 30 Lab Hrs.; 40 Hrs. Total) 2 Credits
 Students demonstrate and apply watchkeeping skills including application of compass error; rules of the road; aids to navigation; marine radios; and position fixing and distance measuring on the nautical chart. Class includes practical experience during boat labs. Concurrently enrolled in MAS 175 is encouraged.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 164**INTRODUCTION TO NAVIGATION****(60 Lecture/Lab Hrs. Total)****3 Credits**

Students demonstrate the knowledge and skills required to conduct a vessel safely from one position to another including position, direction, and distance on the water. Celestial navigation is not included in this course.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020**MAS 165****PRACTICAL NAVIGATION****(10 Lecture, 30 Lab Hrs.; 40 Hrs. Total)****2 Credits**

Students demonstrate mastery of navigation skills used on Mercator charts, including dead reckoning, fixing a position, and maintaining nautical charts. Students demonstrate proper use of major navigation publications. Concurrent enrollment in MAS 164 is encouraged.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020**MAS 167****CELESTIAL NAVIGATION****(80 Lecture/Lab Hrs. Total)****4 Credits**

Students demonstrate knowledge and skill in the practical application of plotting lines of position using the sun, moon, planets and stars by sight reduction tables. Students solve the types of celestial navigation problems incorporated in USCG examinations.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020**MAS 168****CHARTS, AIDS TO NAVIGATION, AND MARINE COMPASSES****(60 Lecture/Lab Hrs. Total)****3 Credits**

Students demonstrate in-depth knowledge of the Lateral and International Association of Lighthouse Authorities aids to navigation systems; the charts used in marine navigation; the magnetic compass, its deviation and compensation; and the basics of gyrocompasses.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020**MAS 170****MARINE WEATHER, TIDES, CURRENTS AND WAVES****(60 Lecture/Lab Hrs. Total)****3 Credits**

Students demonstrate in-depth knowledge of the effects of tides and currents, use of tables for calculating tides and currents, weather patterns found in the Pacific Northwest, and the use and interpretation of various weather instruments found onboard vessels.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020**MAS 171****COASTAL NAVIGATION AND VOYAGE PLANNING****(60 Lecture/Lab Hrs. Total)****3 Credits**

Introduction to principles of coastal navigation including tides and currents, set and drift, coastal radar navigation, dead reckoning, estimated positions, and bathymetric navigation. Students will be introduced to proper and effective voyage planning oriented to the Pacific coast and Pacific Northwest including selection of appropriate charts, research of publications, pre-plotting intended course, planning for set and drift, waypoint selection, ETA's, weather, and hazards that may be encountered.

Prerequisite: MAS 164 or instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****MAS 172****OCEAN NAVIGATION AND VOYAGE PLANNING****(80 Lecture/Lab Hrs. Total)****4 Credits**

Students will be introduced to the tools and techniques of ocean navigation including great circle routes, electronic position fixing, use of sextant in ocean navigating, latitude by Polaris, latitude by meridian passage, ETA's, universal time, Nautical Almanac, and other publications used for ocean passages. Students will become familiar with ocean passage planning and enroute activities.

Prerequisite: MAS 171 or instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****MAS 175****RULES OF THE ROAD****(60 Lecture/Lab Hrs. Total)****3 Credits**

Students gain an in-depth knowledge of the Navigation Rules through studying the history of the Navigation rules, reading case studies of collisions, and analyzing the application of the Navigation Rules. It is suggested that this course be taken consecutively with MAS 155 Introduction to Watchkeeping.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****MAS 180****MARINE ELECTRONICS****(40 Lecture/Lab Hrs. Total)****2 Credits**

Students demonstrate and apply knowledge and skill in the use and operation of marine electronic equipment including radios, sounders, radar, sonar, loran, and Global Positioning System (GPS).

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****MAS 181****SEAMANSHIP I****(40 Lecture/Lab Hrs. Total)****2 Credits**

Students learn and apply knowledge of marlinespike seamanship skills which includes the use of synthetic lines, line handling, and knots and splices, while actively participating in vessel operations. Includes five days of vessel time.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****MAS 182****SEAMANSHIP II****(40 Lecture/Lab Hrs. Total)****2 Credits**

Students acquire basic skills and knowledge of rigging techniques including the proper use of wire rope and blocks and tackles. Students continue to develop and refine marlinespike seamanship skills. Includes five days of vessel time.

Prerequisite: Completion of MAS 181 and instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****MAS 183****SEAMANSHIP III****(40 Lecture/Lab Hrs. Total)****2 Credits**

Students acquire basic skills and knowledge of the safe operation of deck machinery found on workboats. Students continue to develop marlinespike seamanship skills. Successful completion of the US Coast Guard Able Seaman Practical Knot Exam and demonstration of skills mastered in previous Seamanship classes is required. Includes five days of vessel time.

Prerequisite: Completion of MAS 182 and instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020**

MAS 184
GALLEY COOKING
(40 Lecture/Lab Hrs. Total) 2 Credits
 Students learn to select healthy, appetizing foods that can be prepared on a vessel underway. Includes safe storage techniques, meal selection, and budgeting.
Prerequisite: Instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 185
BRIDGE TO BRIDGE COMMUNICATION
(60 Lecture/Lab Hrs. Total) 3 Credits
 Students will learn basic radio law and operation practices of marine radios, general information about Global Marine Distress Safety System (GMDSS) as required under Standards for Training and Certification for Watchkeeping (STCW) and International Maritime Organization (IMO) guidelines. Students will be prepared to take a Federal Communications Commission (FCC) exam on Elements 1 and 7.
Prerequisite: Instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 186
SMALL VESSEL OPERATIONS I
(40 Lecture/Lab Hrs. Total) 2 Credits
 Students are introduced to the duties and responsibilities of small vessel operations. They demonstrate vessel-handling skills under a variety of conditions while emphasizing standards of safe seamanship. Includes five days of vessel time.
Prerequisite: Instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 187
SMALL VESSEL OPERATIONS II
(40 Lecture/Lab Hrs. Total) 2 Credits
 Focuses on advancing the skills required to safely handle small vessels under adverse conditions, minimizing the hazards of loading, and organizing and managing a navigational watch. Students are required to demonstrate skills learned in the previous small vessel operation class while onboard the training vessel.
Prerequisite: Completion of MAS 186 and instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 188
SMALL VESSEL OPERATIONS III
(40 Lecture/Lab Hrs. Total) 2 Credits
 Students develop and demonstrate the skills required for safe operation of a small vessel. Students apply 46 CFR Sub-chapter T regulations for small passenger vessels, including conducting the required drills and inspections. Students also demonstrate advanced vessel handling skills and bridge management strategies. Demonstration of previously learned skills is required while onboard the training vessel.
Prerequisite: Completion of MAS 187 and instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 189
APPLIED RIGGING TECHNOLOGY
(40 Lecture/Lab Hrs. Total) 2 Credits
 In this hands-on rigging class held onboard the training vessel and in the classroom, students will learn about, and be able to demonstrate techniques and knowledge in, wire and synthetic rope, rigging hardware, tackle blocks, chain, slings, crane operation, crane safety, and load lifting. This course compliments the seamanship series.
Prerequisite: Instructor approval. This course is intended for second year students.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 190
VESSEL PRACTICUM
(40 Lab Hrs. Total) 1 Credit
 Students complete predetermined projects onboard the training vessel using skills learned in the classroom. Requires a consultation with an instructor to determine outcome objectives.
Prerequisite: Instructor consultation and pre-determination of projects.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 191
DECKHAND PRACTICUM
(40 Lab Hrs. Total) 1 Credit
 Students demonstrate knowledge and skills in vessel safety by actively performing the duties of a deckhand on the college's training vessel. Note: a total of four (4) credits of MAS 191 may be applied toward the AGS degree, Associate of Applied Science degree, and the One-Year Maritime Science certificate. Students are required to enroll in College's drug test program.
Prerequisite: Completion of MAS 150, completion of vessel orientation course, and instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 192
INTRODUCTION TO DECK MACHINERY AND SAFETY
(40 Lecture/Lab Hrs. Total) 2 Credits
 Students demonstrate knowledge of terminology; back deck practices including the safe operation of all deck equipment onboard the training vessel; safe working practices dockside and under way; making repairs and replacing worn or damaged gear; using crane signals; and maintaining a safe working environment.
Prerequisite: Instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 193
INTRODUCTION TO ENGINE ROOM MAINTENANCE AND SAFETY
(40 Lecture/Lab Hrs. Total) 2 Credits
 Students demonstrate knowledge of terminology; engine room layout and machinery identification; working with limited space and accessibility; repair and maintenance procedures; preventive maintenance; emergency repair; use and care of hand tools; checking fluid levels and grease fittings; good housekeeping; and safe working practices.
Prerequisite: Instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 201
TANK SHIP DANGEROUS LIQUIDS
(30 Lecture, 10 Lecture/Lab Hrs. Total) 3 Credits
 This U.S. Coast Guard approved STCW Tank Ship Dangerous Liquids course meets or exceeds the requirements to attain certification under the standards set forth by the U.S. Coast Guard and STCW 95 IMO regulations. Students demonstrate skills and knowledge needed to operate effectively as a Tankerman Person-In-Charge.
Prerequisite: Instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 207
LEADERSHIP AND MANAGERIAL SKILLS
(40 Lecture Hrs Total) 4 Credits
 Students demonstrate their knowledge and skills to safely carry out the duties of an officer in charge of a navigational watch on vessels of 500 gross tons or more, as an officer in charge of engineering watch in a manned engine room or a DDE in a periodically unmanned engine room in this U.S. Coast Guard approved certification course.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MAS 208
RATINGS FORMING PART OF A NAVIGATIONAL WATCH (RFPNW)
(20 Lecture, 12 Lecture/Lab Hrs.; 32 Hrs. Total) 2 Credits
 This Coast Guard Approved 32 hour course provides students with the knowledge and skills, as well as assessments of those skills, necessary to stand lookout and helmsman watches on board vessels that operate under the International Maritime Organization standards.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

MSE MARINE SCIENCE ENGINEERING

MSE 101
TOOL AND SHOP PRACTICES
(40 Lecture/Lab Hrs.Total) 2 Credits
 This Coast Guard Approved 32-hour course provides students with the knowledge and skills, as well as assessments of those skills, necessary to stand lookout and helmsman watches on board vessels that operate under the International Maritime Organization standards.
OFFERED AS NEEDED

MSE 102
RATINGS FORMING PART OF AN ENGINE WATCH
(40 Lecture/Lab Hrs.Total) 2 Credits
 This USCG approved 20-hour course provides students with the knowledge and skills, as well as the assessments necessary to stand engine watches on board vessels that operate under the International Maritime Organization Standards.
OFFERED AS NEEDED

MSE 103
MARINE ENGINEERING OPERATIONS
(40 Lecture/Lab Hrs.Total) 2 Credits
 Students will learn basic operational terminology and safety practices for auxiliary machinery, hydraulic operations and system operations.
OFFERED AS NEEDED

MSE 111
PIPES AND VLAVES
(60 Lecture/Lab Hrs.Total) 3 Credits
 Students will learn the properties and recommended uses for various types of pipe, hose, tubing and control valving. Emphasis on the proper selection of delivery mechanisms and valving for specific situations.
OFFERED AS NEEDED

MSE 112
FLUID PUMPS
(60 Lecture/Lab Hrs.Total) 3 Credits
 Students will learn the properties and recommended uses for different types of fluid delivery pumps. Operating principles & theories for centrifugal, positive displacement, jet and reciprocating pumps will be covered in this course.
OFFERED AS NEEDED

MSE 120
QMED CREDENTIAL
(120 Lecture/Lab Hrs.Total) 6 Credits
 This course will satisfy USCG testing requirements for QMED Oiler.
OFFERED AS NEEDED

MSE 121
VESSEL SYSTEMS
(40 Lecture/Lab Hrs.Total) 2 Credits
 Students will learn the properties and recommended practices for operation and maintenance of systems handling seawater, potable water, sanitation/sewage, lubricating oil, fuel and air.
OFFERED AS NEEDED

MSE 122
FUEL SYSTEMS
(40 Lecture/Lab Hrs.Total) 2 Credits
 Students will learn the properties of commonly encountered fuels and the principles, operation and maintenance of fuel delivery systems in vessel operations.
OFFERED AS NEEDED

MSE 131
MECHANICAL LUBRICATION PRODUCTS
(40 Lecture/Lab Hrs.Total) 2 Credits
 Students will learn the properties of commonly encountered lubrication products and their recommended uses. Materials covered will include types greases, oil, oil additives, characteristics, and contamination.
OFFERED AS NEEDED

MSE 132
LUBRICATION SYSTEMS II
(40 Lecture/Lab Hrs.Total) 2 Credits
 Students will develop an understanding of the systems and practices used to lubricate machinery. Engines, auxiliary machinery and stationary machinery will all be covered in this course.
OFFERED AS NEEDED

MSE 141
PRINCIPLES OF DIESEL ENGINES
(60 Lecture/Lab Hrs.Total) 3 Credits
 Students will learn basic diesel engine principles and operating practices. Course content will include engine design, theory, operation and troubleshooting.
OFFERED AS NEEDED

MSE 151
PRINCIPLES OF DC MARINE ELECTRICAL SYSTEMS
 (40 Lecture/Lab Hrs.Total) **2 Credits**

Students will learn basic principles and operating practices for DC Marine Electrical systems. Course content will include safety practices, electrical theory, circuits, magnetism, generation, storage, distribution, diagrams, metering equipment and troubleshooting.

OFFERED AS NEEDED

MSE 152
PRINCIPLES OF AC MARINE ELECTRICAL SYSTEMS
 (40 Lecture/Lab Hrs.Total) **2 Credits**

Students will learn basic principles and operating practices for AC Marine Electrical systems. Course content will include safety practices, electrical theory, circuits, magnetism, generation, storage, distribution, diagrams, metering equipment and troubleshooting.

OFFERED AS NEEDED

MSE 161
PRINCIPLES OF MARINE HYDROLOGIC SYSTEMS
 (60 Lecture/Lab Hrs.Total) **3 Credits**

Students will learn basic principles and operating practices for Marine Hydraulic systems. Course content will include safety practices, theory, system design, system components, operation and troubleshooting.

OFFERED AS NEEDED

MSE 162
PRINCIPLES OF MARINE REFRIGERATION SYSTEMS
 (60 Lecture/Lab Hrs.Total) **3 Credits**

Students will learn basic principles, applications and operating practices for Marine Refrigeration systems. Course content will include safety practices, theory, system design, system components, operation and troubleshooting.

OFFERED AS NEEDED

MSE 171
BLUEPRINT READING
 (20 Lecture/Lab Hrs.Total) **1 Credit**

Students will learn to read and make effective use of orthographic projections, welding blueprints and piping diagrams in engine room operations.

OFFERED AS NEEDED

MSE 172
PRINCIPLES OF STEAM
 (20 Lecture/Lab Hrs.Total) **1 Credit**

Students will learn basic theory, operating principles and practices for steam boilers & operations.

OFFERED AS NEEDED

MSE 173
TURBINES AND WATERMARKERS
 (20 Lecture/Lab Hrs.Total) **1 Credit**

Students will learn the different types of turbines and associated components and characteristics. Common safety and operating practices will be covered.

OFFERED AS NEEDED

MIC MICROCOMPUTER APPLICATIONS

MIC 145
INTRODUCTION TO INTEGRATED SOFTWARE
 (6.00 Lecture/Lab Hrs./Wk.) **3 Credits**

Students learn to use an integrated software package that includes word-processing, database, spreadsheet, graphics, and communications operations.

Prerequisite: Touch keyboarding skill recommended.

FALL 2018, 2019

MTH MATHEMATICS

MTH 60
PRE-ALGEBRA
 (8.00 Lecture/Lab Hrs./Wk.) **4 Credits**

Students master the fundamentals of applied algebra with some geometry. They compute simple algebraic expressions, first degree equations, dimensional analysis, ratio and proportions, and do some numerical evaluations.

Prerequisite: Placement at MTH 60 level or instructor approval.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020; SUMMER 2019, 2020

MTH 65
MATHEMATICS FOR THE APPLIED SCIENCES
 (4.00 Lecture Hrs./Wk.) **4 Credits**

Students solve problems from a variety of occupations using fractions, decimals, percents, proportions, right angle trigonometry, graphs, and statistics. This course satisfies the general education mathematics requirement for most of the Professional and Technical degrees.

Prerequisite: MTH 60 with a "P" or "C" grade or better, or placement at level MTH 65 or MTH 70.

WINTER 2019, 2020; SPRING 2019, 2020

MTH 70
ALGEBRA - BEGINNING
 (8.00 Lecture/Lab Hrs./Wk.) **4 Credits**

Students employ communication and problem solving skills that involve mathematical reasoning. Topics include solving linear equation in two variables, graphing linear equations, solving systems of linear equations in two variables, integer exponents, solving linear inequalities, and polynomial arithmetic.

Prerequisite: MTH 60 with a "P" or "C" grade or better, or placement at MTH 70 level or instructor approval.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020; SUMMER 2019, 2020

MTH 95
ALGEBRA - INTERMEDIATE
 (8.00 Lecture/Lab Hrs./Wk.) **4 Credits**

Students demonstrate an understanding of factoring polynomials, rational exponents and radicals, first and second-degree equations and inequalities, functions and graphs, rational expressions and absolute value equations.

Prerequisite: MTH 70 with a "P" or "C" grade or better, or placement at MTH 95 level or instructor approval.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020; SUMMER 2019, 2020

MTH 58**ARITHAETIC REVIEW****(10 Lecture Hrs Total)****1 Credit**

Students review the fundamentals of arithmetic operations on whole numbers, fractions, mixed numbers, and decimals. Students learn to convert between various number forms. They examine applications of proportion and percent.

OFFERED AS NEEDED**MTH 59****PRE ALGEBRA A****(4.00 Lecture, 2.00 Lab Hrs /Wk)****4 Credits**

Students master the fundamentals of arithmetic operations on whole numbers, fractions, mixed numbers, and decimals. Students learn to convert between various number forms. They examine non-algebraic applications of proportion and percent.

OFFERED AS NEEDED**MTH 98****QUANTITATIVE LITERACY****(4.00 Lecture, 2.00 Lab Hrs /Wk)****4 Credits**

Students will utilize critical reasoning to solve contextual problems using numerical and algebraic skills, descriptive statistics, geometry, functions, and modeling. Students will develop quantitative reasoning and problem solving skills through a collaborative process. For non-STEM majors.

Prerequisite: Completion MTH60 with a "P" or "C" or better, placement at MTH 70 level, or instructor approval.

FALL 2018, 2019; WINTER 2019, 2020**MTH 105****MATH IN SOCIETY****(4.00 Lecture Hrs./Wk.)****4 Credits**

Students learn quantitative reasoning, symbolic reasoning, and problem solving techniques needed to be a productive, contributing citizen in the 21st century. Math in Society is a rigorous mathematics course designed for students in Liberal Arts and Humanities majors.

Prerequisite: MTH 95 or higher with a "P" or "C" grade or better, or placements at MTH 105 level or instructor approval.

WINTER 2019, 2020; SPRING 2019, 2020**MTH 111****COLLEGE ALGEBRA****(4.00 Lecture Hrs./Wk.)****4 Credits**

Students demonstrate their knowledge of higher degree polynomial, rational, exponential and logarithmic functions through the solution of equations and inequalities using a combination of current technology and algebraic methods.

Prerequisite: MTH 95 with a "P" or "C" grade or better, or placement at MTH 111 level or instructor approval.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020; SUMMER 2019, 2020**MTH 112****ELEMENTARY FUNCTIONS - TRIGONOMETRY****(4.00 Lecture Hrs./Wk.)****4 Credits**

Students are introduced to concepts and applications of trigonometric functions and their inverses by exploring topics such as triangle ratios, periodic functions, and trigonometric identities. For students planning to take MTH 251 Calculus I who have little or no background in trigonometry.

Prerequisite: MTH 111 with a "C" grade or better or placement at MTH 112 level or instructor approval.

SPRING 2019, 2020**MTH 116****PRE-CALCULUS****(4.00 Lecture Hrs./Wk.)****4 Credits**

Students prepare for calculus and higher mathematics courses. Students will work competently with elementary principles of functions to prepare for the study of higher mathematics and analyze the behavior of different mathematical models. Students will also examine the various conic sections and their applications as well as the elementary ideas of sequences and series and discrete mathematics.

Prerequisite: MTH 111 with a "C" grade or better or placement at MTH 112 level or instructor approval.

WINTER 2019, 2020**MTH 211****FUNDAMENTALS OF ELEMENTARY MATHEMATICS I****(4.00 Lecture Hrs./Wk.)****4 Credits**

Students learn concepts and teaching techniques used in elementary school mathematics. Concepts covered include patterning and problem solving, set theory, number systems, basic operations and number theory.

Prerequisite: MTH 95 with a "P" or "C" grade or better, or instructor approval. MTH 211, 212, and 213 do not need to be completed in sequence.

FALL 2018, 2019**MTH 212****FUNDAMENTALS OF ELEMENTARY MATHEMATICS II****(4.00 Lecture Hrs./Wk.)****4 Credits**

Students learn concepts and teaching techniques used in elementary school mathematics. Concepts covered include number theory, integers, fractions, rational numbers, irrational numbers, probability and statistics.

Prerequisite: MTH 95 with a "P" or "C" grade or better, or instructor approval. MTH 211, 212, and 213 do not need to be completed in sequence.

WINTER 2019, 2020**MTH 213****FUNDAMENTALS OF ELEMENTARY MATHEMATICS III****(4.00 Lecture Hrs./Wk.)****4 Credits**

Students learn concepts and teaching techniques used in elementary school mathematics. Concept covered Euclidean geometry, translations, tessellations, and symmetry groups.

Prerequisite: MTH 95 with a "P" or "C" grade or better, or instructor approval. MTH 211, 212, and 213 do not need to be completed in sequence.

SPRING 2019, 2020**MTH 243****INTRODUCTION TO PROBABILITY AND STATISTICS****(4.00 Lecture Hrs./Wk.)****4 Credits**

Students demonstrate their knowledge of descriptive statistics by the collection, summarization, and analysis of data and the use of current technology. For students majoring in the arts, sciences and business programs.

Prerequisite: MTH 95 or MTH 105 with a "P" or "C" grade or better, or instructor approval.

FALL 2018, 2019; WINTER 2019, 2020

MTH 244
INTRODUCTION TO PROBABILITY AND STATISTICS
 (4.00 Lecture Hrs./Wk.) **4 Credits**
 Students demonstrate their knowledge of descriptive and inferential statistics through the use of basic one- and two-sample inferential techniques such as estimation, hypothesis testing, and regression using current technology. For students majoring in the arts, sciences and business programs that require two terms of statistics.
Prerequisite: MTH 243 with a "C" grade or better.
SPRING 2019, 2020

MTH 251
CALCULUS I
 (5.00 Lecture Hrs./Wk.) **5 Credits**
 Students learn differentiation using graphical, numerical, and analytical approaches. Students will read, understand and discuss applied differential calculus concepts. Students will utilize graphing programmable calculators and computer technology.
Prerequisite: MTH 112 with of "C" grade or better.
FALL 2018, 2019

MTH 252
CALCULUS II
 (4.00 Lecture Hrs./Wk.) **4 Credits**
 Students read, understand, and discuss applied integral calculus concepts. Students will deepen their understanding of Riemann sums and apply that knowledge in the development of definite integrals and the Fundamental Theorem of Calculus. Students will learn additional integration techniques. Students will utilize graphing programmable calculators.
Prerequisite: MTH 251 with "C" grade or better.
WINTER 2019, 2020

MTH 253
CALCULUS III
 (4.00 Lecture Hrs./Wk.) **4 Credits**
 Students continue to learn new integration techniques using graphical, numerical, and analytical approaches. Students will apply their knowledge of differentiation and integration in mathematical modeling and other applications. Students will investigate series and sequences. Graphing technology will be used.
Prerequisite: MTH 252 with "C" grade or better.
SPRING 2019, 2020

MUP & MUS MUSIC

No more than 12 credits may be applied to an Associate degree.

MUP 147
INDIVIDUAL LESSONS - VOICE
 (.50 Lecture, 6.00 Lab Hrs./Wk.) **2 Credits**
 Individual instruction in voice or instruments. Recitals may be required. Note: No more than 12 credits on a major instrument and six credits on a secondary instrument of individual lessons numbered MUP 171-192 and 271-292 may be applied to an associate degree.
OFFERED AS NEEDED

MUP 180
INDIVIDUAL LESSONS - GUITAR
 (.50 Lecture, 6.00 Lab Hrs./Wk.) **2 Credits**
 Students take individual instruction in beginning guitar. Note: No more than 12 credits on a primary instrument and six credits on a secondary instrument of individual lessons numbered MUP 171-192 and 271-292 may be applied to an associate degree.
OFFERED AS NEEDED

MUP 280
INDIVIDUAL LESSONS - GUITAR
 (.50 Lecture, 6.00 Lab Hrs./Wk.) **2 Credits**
 Individual instruction in advanced guitar. Note: No more than 12 credits on a primary instrument and six credits on a secondary instrument of individual lessons numbered MUP 171-192 and 271-292 may be applied to an associate degree.
OFFERED AS NEEDED

MUS 105
MUSIC APPRECIATION
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students briefly study the elements of music, then examine the major historical music eras including contemporary musical theatre, popular music, and non-western music. Includes significant art music composers and compositions from those eras.
OFFERED AS NEEDED

NFM NUTRITION & FOOD MANAGEMENT

NFM 225
HUMAN NUTRITION
 (4.00 Lecture Hrs./Wk.) **4 Credits**
 Students develop an understanding of nutrients, their functions, food sources, effects of deficiency, recommended dietary allowances, assessment of nutritional status, practical human nutrition, and nutritional controversies including food fads and fallacies.
Prerequisite: None, general understanding of chemistry and human anatomy and physiology strongly recommended.
WINTER 2019, 2020; SPRING 2019, 2020; SUMMER 2019, 2020

NRS & NUR NURSING**NRS 110****FOUNDATIONS OF NURSING: HEALTH PROMOTION****(4.00 Lecture, 15 Lab Hrs./Wk.)****9 Credits**

This course introduces the learner to framework of the OCNE curriculum. The emphasis on health promotion across the life span includes learning about self-health as well as patient health practices. To support self and patient health practices, students learn to access research evidence about healthy lifestyle patterns and risk factors for disease/illness, apply growth and development theory, interview patients in a culturally sensitive manner, work as members of a multidisciplinary team giving and receiving feedback about performance, and use reflective thinking about their practice as nursing students. Populations studied in the course include children, adults, older adults and the family experiencing a normal pregnancy. Includes classroom and clinical learning experiences. The clinical portion of the course includes practice with therapeutic communication skills and selected core nursing skills identified in the OCNE Core Nursing Skills document.

Prerequisite: Admission into Nursing Program.**FALL 2018, 2019****NRS 111****FOUNDATIONS OF NURSING: CHRONIC ILLNESS I****(2.00 Lecture, 12 Lab Hrs./Wk.)****6 Credits**

This course introduces assessment and common interventions (including technical procedures) for patients with chronic illnesses common across the life span in multiple ethnic groups. The patient's and family's "lived experience" of the condition is explored. Clinical practice guidelines and research evidence are used to guide clinical judgments in care of individuals with chronic conditions. Multidisciplinary team roles and responsibilities are explored in the context of delivering safe, high quality health care to individuals with chronic conditions (includes practical and legal aspects of delegation). Cultural, ethical, legal and health care delivery issues are explored through case scenarios and clinical practice. Case exemplars include children with asthma, adolescents with a mood disorder, adults with type 2 diabetes, and older adults with dementia. The course includes classroom and clinical learning experiences.

Prerequisite: Admission into Nursing Program, NRS 112, NRS 230, NRS 232. Co-requisite: NRS 231 and NNRS 233**SPRING 2019, 2020****NRS 112****FOUNDATIONS OF NURSING: ACCUTE CARE I****(2.00 Lecture, 12 Lab Hrs./Wk.)****6 Credits**

This course introduces the learner to assessment and common interventions (including relevant technical procedures) for care of patients across the lifespan who require acute care, including normal childbirth. Disease/illness trajectories and their translation into clinical practice guidelines and/or standard procedures are considered in relation to their impact on providing culturally sensitive, patient-centered care. Includes classroom and clinical learning experiences.

Prerequisite: Admission into Nursing Program, NRS 110, BI 234 or equivalent Co-requisite: NRS 230 and NRS 232**WINTER 2019, 2020****NRS 221****FOUNDATIONS OF NURSING: CHRONIC ILLNESS II AND END OF LIFE****(4.00 Lecture, 15 Lab Hrs./Wk.)****9 Credits**

This course builds on Foundations of Nursing in Chronic Illness I. Chronic Illness II expands the student's knowledge related to family care giving, symptom management and end of life concepts. These concepts are a major focus and basis for nursing interventions with patients and families. Ethical issues related to advocacy, self-determination, and autonomy are explored. Complex skills associated with the assessment and management of concurrent illnesses and conditions are developed within the context of patient and family preferences and needs. Skills related to enhancing communication and collaboration as a member of an interprofessional team and across health care settings are further explored. Exemplars include patients with chronic mental illness and addictions as well as other chronic conditions and disabilities affecting functional status and family relationships. The course includes classroom and clinical learning experiences. (Can follow Nursing in Acute Care II and End-of-Life).

Prerequisite: Admission into Nursing Program, NRS 110,111, 112, NRS 231 AND NRS 233**FALL 2018, 2019****NRS 222****NURSING ACUTE CARE II & END-OF-LIFE****(4.00 Lecture, 15 Lab Hrs./Wk.)****9 Credits**

This course builds on Nursing in Acute Care I, focusing on more complex and/or unstable patient care conditions, some of which may result in death. These patient care conditions require strong noticing and rapid decision making skills. Evidence base is used to support appropriate focused assessments, and effective, efficient nursing interventions. Life span and developmental factors, cultural variables, and legal aspects of care frame the ethical decision-making employed in patient choices for treatment or palliative care for disorders with an acute trajectory. Case scenarios incorporate prioritizing care needs, delegation and supervision, and family and patient teaching for either discharge planning or end-of-life care. Exemplars include acute conditions affecting multiple body systems. Includes classroom and clinical learning experiences. (Can follow Nursing in Chronic Illness II and End-of-Life Care).

Prerequisite: Admission into Nursing Program, NRS 221**WINTER 2019, 2020****NRS 224****NURSING: INTERGRATIVE PRACTICUM****(2.00 Lecture, 21 Lab Hrs./Wk.)****9 Credits**

This course is designed to formalize the clinical judgments, knowledge and skills necessary in safe, registered nurse practice. Faculty/Clinical Teaching Associate/Student Triad Model provides a context that allows the student to experience the nursing role in a selected setting, balancing demands of professional nursing and lifelong learner. Analysis and reflection throughout the clinical experience provide the student with evaluative criteria against which they can judge their own performance and develop a practice framework. Includes seminar, self-directed study and clinical experience.

Prerequisite: Admission into Nursing Program, NRS 222.**SPRING 2019, 2020**

**NRS 230
CLINICAL PHARMACOLOGY I
(3.00 Lecture Hrs./Wk.)**

3 Credits

This course introduces the theoretical background that enables students to provide safe and effective care related to drugs and natural products to persons throughout the lifespan. It includes the foundational concepts of principles of pharmacology, nonopioid analgesics, and antibiotics, as well as additional classes of drugs. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of information, understanding of pharmacokinetics and pharmacodynamics, developmental physiologic considerations, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. Drugs are studied by therapeutic or pharmacological class using an organized framework.

Prerequisite: Admission into Nursing Program, NRS 110, BI 234. Co-requisite: NRS 111.

WINTER 2019, 2020

**NRS 231
CLINICAL PHARMACOLOGY II
(3.00 Lecture Hrs./Wk.)**

3 Credits

This sequel to Clinical Pharmacology I continues to provide the theoretical background that enables students to provide safe and effective nursing care related to drugs and natural products to persons throughout the lifespan. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of information, monitoring and evaluating the effectiveness of drug therapy, teaching persons from diverse populations regarding safe and effective use of drugs and natural products, intervening to increase therapeutic benefits and reduce potential negative effects, and communicating appropriately with other health professionals regarding drug therapy. The course addresses additional classes of drugs and related natural products not contained in Clinical Pharmacology I.

Prerequisite: Admission into Nursing Program, BI 234 (or equivalent), NRS 110, NRS 112, NRS 230. Co-requisite: NRS 111.

SPRING 2019, 2020

**NRS 232
PATHOPHYSIOLOGICAL PROCESSES I
(3.00 Lecture Hrs./Wk.)**

3 Credits

This course introduces pathophysiological processes that contribute to many different disease states across the lifespan and human responses to those processes. It includes the foundational concepts of cellular adaptation, injury, and death; inflammation and tissue healing; fluid and electrolyte imbalances; and physiologic response to stressors and pain, as well as additional pathophysiological processes. Students will learn to make selective clinical decisions in the context of nursing regarding using current, reliable sources of pathophysiology information, selecting and interpreting focused nursing assessments based on knowledge of pathophysiological processes, teaching persons from diverse populations regarding pathophysiological processes, and communicating with other health professionals regarding pathophysiological processes.

Prerequisite: Admission into Nursing Program, NRS 110, BI 234 or equivalent. Co-requisite: NRS 112, NRS 230

WINTER 2019, 2020

**NRS 233
PATHOPHYSIOLOGICAL PROCESSES II
(3.00 Lecture Hrs./Wk.)**

3 Credits

This sequel to Pathophysiological Processes I continues to explore pathophysiological processes that contribute to disease states across the lifespan and human responses to those processes. Students will learn to make selected clinical decisions in the context of nursing regarding using current, reliable sources of pathophysiology information, selecting and interpreting focused nursing assessments based on knowledge of pathophysiological processes, teaching persons from diverse populations regarding pathophysiological processes, and communicating with other health professionals regarding pathophysiological processes. The course addresses additional pathophysiological processes not contained in Pathophysiological Processes I.

Prerequisite: Admission into Nursing Program, NRS 111, NRS 231, NRS 112, NRS 230, NRS 232. Co-requisite: NRS 111, NRS 231

SPRING 2019, 2020

**NUR 111
NURSING CONCEPTS AND CLINICAL PRACTICE**

(12 Lec/6 Lab Hrs/1Cr; 12 Lec/20 Lab Hrs/2Cr; 20 Lec/30 Lab Hrs/3 Cr)

1-3 Credits

Students are introduced to fundamental concepts of the Clatsop Community College nursing curriculum and reviews previously learned information and skills for students who have previous nursing education (i.e., advanced placement students into the Nursing Program).

Prerequisite: Advanced placement admission to the nursing program (admission at any point beyond NRS 110).

OFFERED AS NEEDED

OA OFFICE SKILLS

**OA 120
COMPUTER KEYBOARDING**

(22 Lecture/Lab Hrs. Total)

1 Credit

Students develop basic keyboarding techniques using a computer terminal. Applicable to all disciplines.

OFFERED AS NEEDED

**OA 121
KEYBOARDING I**

(66 Lecture/Lab Hrs. Total)

3 Credits

Students develop skill in keyboarding techniques, proofreading, and machine composition. They acquire skill in producing simple letters, reports, and memorandums. Note: Students are placed in keyboarding classes according to their demonstrated proficiency.

OFFERED AS NEEDED

**OA 205
DESKTOP PUBLISHING**

(20 Lecture Hrs. Total)

2 Credits

Students develop skill in using desktop publishing software to create newsletters, brochures, business cards, etc. for course work, professional purposes, and personal use.

OFFERED AS NEEDED

PE PHYSICAL EDUCATION

No more than six credits of PE 185 earned in different activities at different levels may be applied to an associate degree.

PE 185AA**DANCE FITNESS - BEGINNING****(3.00 Lab Hrs./Wk.)****1 Credit**

Students learn and participate in a variety of dance and aerobic exercises designed to increase the strength and capacity of the cardiovascular system. Students will be instructed in and execute heart rate monitoring, proper warm-up and cool down techniques and participate in other exercises that compliment aerobic exercise.

FALL 2018, 2019; WINTER 2019, 2020**PE 185AB****DANCE FITNESS - INTERMEDIATE****(3.00 Lab Hrs./Wk.)****1 Credit**

Students continue to participate in activities and develop benefits acquired in the PE 185 Aerobic Exercise-Beginning. Students will continue to participate in different dance and aerobic activities that increase cardiovascular strength and develop a clear understanding in the importance of including aerobic exercise into a healthy lifestyle.

Prerequisite: PE 185AA Dance Fitness-Beginning.**FALL 2018, 2019; WINTER 2019, 2020****PE 185BA****BASKETBALL - BEGINNING****(3.00 Lab Hrs./Wk.)****1 Credit**

Students learn and practice skills related to the game of basketball. Provides sufficient skills and knowledge to serve the student's recreational interest as a player or spectator.

OFFERED AS NEEDED**PE 185BB****BASKETBALL - INTERMEDIATE****(3.00 Lab Hrs./Wk.)****1 Credit**

Students develop and practice beginning and more advanced basketball skills. Advanced offensive and defensive concepts and patterns of the game will be introduced and practiced.

Prerequisite: PE 185BA Basketball-Beginning.**OFFERED AS NEEDED****PE 185CA****CROSS TRAINING FOR FITNESS - BEGINNING****(3.00 Lab Hrs./Wk.)****1 Credit**

Students combine different components of sports and recreational activities along with fitness components producing a workout that will enhance one's cardiovascular fitness as well as agility, speed, strength, balance, and flexibility. This class includes components of kickboxing, plyometrics, martial arts, aerobic conditioning, yoga, strength training and other activities related to fitness, recreation and sports.

Prerequisite: Good physical condition which may require doctor's approval when necessary.**WINTER 2019, 2020; SPRING 2019, 2020****PE 185CB****CROSS TRAINING FOR FITNESS - INTERMEDIATE****(3.00 Lab Hrs./Wk.)****1 Credit**

Students combine different components of sports and recreational activities along with fitness components will be combined to produce a workout that will continue to enhance one's cardiovascular fitness as well as agility, speed, strength, balance, coordination, and flexibility. This class includes components of kickboxing, plyometrics, martial arts, strength training, aerobic conditioning, yoga and other activities related to fitness, recreation, and sports.

Prerequisite: PE 185CA Cross Training for Fitness – Beginning.**WINTER 2019, 2020; SPRING 2019, 2020****PE 185HA****HATHA YOGA - BEGINNING****(3.00 Lab Hrs./Wk.)****1 Credit**

Students practice physical yoga postures (asanas) to train a stable, strong, and flexible body. They develop an understanding of how a stable body helps create a steady, concentrated mind. Co-Registration in FIT085064-D1 Required.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020; SUMMER 2019, 2020**PE 185HB****HATHA YOGA - INTERMEDIATE****(3.00 Lab Hrs./Wk.)****1 Credit**

Students gain further knowledge of Hatha Yoga by practice of yoga postures (asanas) and their sequential progression. They develop an understanding of how a stable body helps create a steady, concentrated mind. Co-Registration in FIT085064-D1 Required.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020; SUMMER 2019, 2020**PE 185PA****PERSONAL FITNESS - BEGINNING****(3.00 Lab Hrs./Wk.)****1 Credit**

Students develop and actively participate in an individualized fitness program emphasizing cardiovascular fitness, muscular strength, endurance and flexibility.

FALL 2018, 2019; WINTER 2019, 2020**PE 185PB****PERSONAL FITNESS - INTERMEDIATE****(3.00 Lab Hrs./Wk.)****1 Credit**

Students develop and actively participate in an individualized conditioning program emphasizing cardiovascular fitness, muscular strength, endurance and flexibility. They receive information on weight control and nutrition.

Prerequisite: PE 185PA Personal Fitness-Beginning or instructor approval.**FALL 2018, 2019; WINTER 2019, 2020****PE 185PC****PILATES - BEGINNING****(3.00 Lab Hrs./Wk.)****1 Credit**

Students participate in a specific series of exercises, known as Pilates, done in a certain sequence while lying on a mat. The exercises are designed to promote a balanced musculoskeletal system, resulting in core strength, flexibility, good posture and improved body awareness.

OFFERED AS NEEDED

PE 185PD**PILATES - INTERMEDIATE****(3.00 Lab Hrs./Wk.)****1 Credit**

Students participate in a specific series of exercises, known as Pilates, done in a certain sequence while lying on a mat. The exercises are designed to promote a balanced musculoskeletal system, resulting in core strength, flexibility, good posture and improved body awareness. Students will further there Pilates practice by practicing more advanced and difficult exercises.

Prerequisite: PE 185PC Pilates-Beginning or instructor approval.

OFFERED AS NEEDED

PE 185RA**(3.00 Lab Hrs./Wk.)****1 Credit****WALKING OR RUNNING FOR FITNESS**

Students learn to plan a walking and/or running training schedule that includes improvement of fitness, prevention of injury and selection of appropriate attire and shoes for a variety of weather and training conditions. Students learn the value of low impact fitness activity on improving cardiovascular fitness and maintenance or attainment of desire body weight.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

PE 185RB**(3.00 Lab Hrs./Wk.)****1 Credit****WALKING OR RUNNING FOR FITNESS**

Students learn to plan a walking and/or running training schedule that includes improvement of fitness, prevention of injury, maintaining fitness levels and selection of appropriate attire and shoes for a variety of weather and training conditions. Students learn the value of low impact fitness activities and the importance of increasing the intensity of the fitness activities and how they relate to improving cardiovascular fitness and maintaining or improving body composition to attain an ideal or more desired body weight.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

PE 185TA**RACQUET SPORTS - BEGINNING****(3.00 Lab Hrs./Wk.)****1 Credit**

Students learn the basic skills, strategy and rules needed to play badminton, pickleball and tennis at a recreational level.

OFFERED AS NEEDED

PE 185TB**RACQUET SPORTS - INTERMEDIATE****(3.00 Lab Hrs./Wk.)****1 Credit**

Students learn the basic and intermediate skills, strategy and rules needed to play badminton, pickleball and tennis at a competitive level.

Prerequisite: PE 185TA Racquet Sports-Beginning

OFFERED AS NEEDED

PE 185VA**VOLLEYBALL - BEGINNING****(3.00 Lab Hrs./Wk.)****1 Credit**

Students develop and apply the fundamental skills, strategies, rules and etiquette of volleyball.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

PE 185VB**VOLLEYBALL - INTERMEDIATE****(3.00 Lab Hrs./Wk.)****1 Credit**

Students improve volleyball skills, develop team play and strategies and acquire advanced individual and team skills and techniques.

Prerequisite: PE 185 VA Volleyball Beginning or instructor approval.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

PE 185WA**WEIGHT TRAINING - BEGINNING****(3.00 Lab Hrs./Wk.)****1 Credit**

Students engage in various methods of weight training which emphasize progressive strength training and lifetime fitness.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

PE 185WB**WEIGHT TRAINING - INTERMEDIATE****(3.00 Lab Hrs./Wk.)****1 Credit**

Students engage in various methods of weight training which emphasize lifetime fitness. Students will continue to execute plans and training methods toward personal workout goals.

Prerequisite: PE 185WA Weight Training-Beginning or instructor approval.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

PH PHYSICS**PH 201****GENERAL PHYSICS****(4.00 Lecture, 3.00 Lab Hrs./Wk.)****5 Credits**

Students develop a general knowledge of physics from mechanics to nuclear physics, particularly the law of conservation of energy and how it relates to humans in everyday life.

Prerequisite: MTH 95.

FALL 2018, 2019

PH 202**GENERAL PHYSICS****(4.00 Lecture, 3.00 Lab Hrs./Wk.)****5 Credits**

Students utilize direct inquiry, discussion with peers, and a microcomputer to take the role of a physicist. Students develop mathematical descriptions of mechanical motion.

Prerequisite: Completion of or concurrent enrollment in MTH 111.

WINTER 2019, 2020

PH 203**GENERAL PHYSICS****(4.00 Lecture, 3.00 Lab Hrs./Wk.)****5 Credits**

Students utilize direct inquiry, discussion with peers, and a microcomputer, to take the role of the physicist. Students develop mathematical descriptions of rotational motion, thermodynamics, and electric current.

Prerequisite: PH 202.

SPRING 2019, 2020

PH 211**GENERAL PHYSICS WITH CALCULUS****(4.00 Lecture, 3.00 Lab Hrs./Wk.)****5 Credits**

Students utilize direct inquiry, discussion with peers, and a computer to take the role of a physicist: observing, acquiring data, and analyzing results rapidly and accurately. Students develop mathematical descriptions of mechanical motion. This sequence is for students planning further study in science or engineering.

Prerequisite: Completion of, or concurrent enrollment in MTH 251.**FALL 2018, 2019****PH 212****GENERAL PHYSICS WITH CALCULUS****(10Lec\ Lab Hrs./Wk.)****5 Credits**

Students utilize direct inquiry, discussion with peers, and a computer to develop mathematical descriptions for mechanical energy, rotational motion, and static electricity. This course is a hybrid of a lecture laboratory class with an online component. Students will learn physics concepts through mini lectures, laboratory activities and online computer simulations and mathematical modeling that will take place outside of the classroom. Instruction will take place in the classroom for 7 hour per week and 3 hours of online instruction per week.

Prerequisite: PH 211.**WINTER 2019, 2020****PH 213****GENERAL PHYSICS WITH CALCULUS****(10 Lec\ Lab Hrs./Wk.)****5 Credits**

Students utilize direct inquiry, discussion with peers, and a computer to develop mathematical descriptions for electricity, magnetism and thermodynamics. This course is a hybrid of a lecture laboratory class with an online component. Students will learn physics concepts through mini lectures, laboratory activities and online computer simulations and mathematical modeling that will take place outside of the classroom. Instruction will take place in the classroom for 7 hour per week and 3 hours of online instruction per week.

Prerequisite: PH 212.**SPRING 2019, 2020****PHL PHILOSOPHY****PHL 101****PHILOSOPHICAL PROBLEMS****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn to use philosophy as a discipline to apply to all human experience and knowledge, and understand the philosophical questions that have focused human speculation about reality, humanity, the mind and the self throughout human history.

FALL 2018, 2019**PHL 102****ETHICS****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students develop an understanding of key ethical problems that have confronted mankind across cultures and times, ethical codes used to resolve them, and how these can be applied to current social issues.

WINTER 2019, 2020; SPRING 2019, 2020**PHL 103****CRITICAL REASONING****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students develop concepts and tools for rational analysis and creative thinking, and learn to assess habits of mind that lead to shallow and fallacious thinking.

SPRING 2019, 2020♦ **PHL 208****POLITICAL PHILOSOPHY****(3.00 Lecture Hrs./Wk.)****3 Credits**

This introductory course in modern political philosophy is a survey of the major modern political theorists, from Hobbes and Locke to Marx and Rawls, and explores such ideas as liberalism, libertarianism, Marxism, communitarianism, citizenship, multiculturalism and feminism.

OFFERED AS NEEDED**PS POLITICAL SCIENCE****PS 201****AMERICAN GOVERNMENT****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students examine the basic background of American traditions of Government and the American Constitution. Topics of special interest include: the Constitution, the Bill of Rights, political culture, interest groups, political parties, public opinion, politics, campaigns, and elections.

FALL 2018, 2019**PS 202****AMERICAN GOVERNMENT****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students examine the basic policy-making institutions of government, the rights and liberties of individuals, and politics of national policy.

WINTER 2019, 2020**PS 203****STATE AND LOCAL GOVERNMENT****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students examine the basic policy-making institutions of local and state government. Students will participate with visitation by state/local political leaders and also attend and evaluate public meetings.

SPRING 2019, 2020**PS 205****INTERNATIONAL POLITICS****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students study ten major issues of the global community, including American foreign policy, and the nature of relations between nations—specifically contemporary international issues; nationalism, economic rivalries, and quest for security; and the problem of international cooperation, changing threats to security in the post-Cold War era, and the increasing importance of economic competition.

OFFERED AS NEEDED

Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with a “♦” symbol.

PSY PSYCHOLOGY

PSY 101
PSYCHOLOGY OF HUMAN RELATIONS
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students learn to apply scientific knowledge from psychology to improve relationships with self and others. This course includes self-exploration and practice of interpersonal skills.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020; SUMMER 2019, 2020

PSY 190
STRESS THEORY AND MANAGEMENT
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students develop a basic theoretical understanding of the bio-psychology of stress, psycho-social factors contributing to stress, and strategies that reduce stress responses.
OFFERED AS NEEDED

PSY 201
GENERAL PSYCHOLOGY
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students learn the historical and contemporary schools of psychology and foundational psychologists, research methods used in psychology, the biological bases of behavior, human development, sensation and perception, with application to human problems. Strong reading and writing skills are recommended.
FALL 2018, 2019

PSY 202
GENERAL PSYCHOLOGY
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students learn about states of consciousness, learning, memory, cognition, motivation and emotion. Strong reading and writing skills are recommended.
Prerequisite: WR 121 level writing skills.
WINTER 2019, 2020

PSY 203
GENERAL PSYCHOLOGY
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students develop an understanding of personality, stress disorders, psychological disorders, approaches to treatment, and social/organizational psychology. Strong reading and writing skills are recommended.
Prerequisite: WR 121 level writing skills.
SPRING 2019, 2020

PSY 215
INTRODUCTION TO DEVELOPMENTAL PSYCHOLOGY
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students gain knowledge of human development from conception to old age, with emphasis on the personality and social issues, brain and cognitive changes over the life span.
Prerequisite: PSY 201, 202 or 203 strongly recommended.
WINTER 2019, 2020

Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with a “♦” symbol.

PSY 216
SOCIAL PSYCHOLOGY
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students review classic and contemporary research studies on the impact of social structures on individual behaviors and mental processes. Major topics include conformity, obedience, cognitive dissonance, attribution theory, the bystander effect, and social exchange theory.
OFFERED AS NEEDED

PSY 219
INTRODUCTION TO ABNORMAL PSYCHOLOGY
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students develop a basic understanding of the etiology, diagnosis and treatment of emotional, mental, and behavioral disorders, based on current scientific and professional definitions and standards.
Prerequisite: PSY 201 strongly recommended.
SPRING 2019, 2020

R RELIGION

R 201
GREAT RELIGIONS OF THE WORLD
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students develop an understanding of myths and world religions, as well as the philosophy of religion, and of early religion, American Native religion, Egyptian religion, the goddess in religion, and Hinduism.
FALL 2018, 2019

R 202
GREAT RELIGIONS OF THE WORLD
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students develop knowledge of myths and world religions, as well as knowledge of philosophy of religion, and of Buddhism, Yoga, Tibetan Buddhism, Taoism, and Confucianism.
WINTER 2019, 2020

R 203
GREAT RELIGIONS OF THE WORLD
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students develop knowledge of myths and world religions, the philosophy of religion, and of Zoroastrianism, Judaism, Greek mystery religions, Christianity, the spiritual dimension of Arthurian romances, and Islam.
SPRING 2019, 2020

SET SUSTAINABLE ENERGY TECHNOLOGY

SET 102
INTRODUCTION TO SUSTAINABILITY
 (3.00 Lecture Hrs./Wk.) **3 Credits**
 Students learn the principles, concepts, and technology associated with efficient production of usable energy based on alternative resources including power production by wave energy, wind energy, solar energy, hydrogen-fuel devices, and other emerging alternative fuel systems.
OFFERED AS NEEDED

SET 158

BUILDING ENERGY ANALYSIS**(2.00 Lecture Hrs./Wk.)****2 Credits**

Students learn how to use diagnostic equipment to analyse the effectiveness of the building systems to maximize energy performance, comfort, efficiency, safety and durability. Students will learn about using the HVAC ducting and digital control (DDC system as an aid in troubleshooting and promoting energy efficiency, and indoor air quality. In order to legally do electrical wiring and some types of electrical troubleshooting, the State of Oregon requires that a person hold an appropriate Electrical License or Electrical Apprentice Card.

OFFERED AS NEEDED**SOC SOCIOLOGY**

♦ SOC 204

INTRODUCTION TO SOCIOLOGY**(3.00 Lecture Hrs./Wk.)****3 Credits**

Students become familiar with the terms, concepts, methods, and theories employed by sociologists. The fundamentals of sociological inquiry are explored through investigations of group formation and dynamics, culture and enculturation, social norms and deviance, class and social stratification, and identity as expressed through race, ethnicity, gender, and age.

FALL 2018, 2019; SPRING 2019, 2020

♦ SOC 205

SOCIAL ISSUES**(3.00 Lecture Hrs./Wk.)****3 Credits**

Students examine sociological principles while discussing current issues relevant to sociology. The course will focus on topics such as bias and discrimination based on race, ethnicity, and gender; the role of religion in society, the effects of globalization, and the question of individual agency in relation to social forces.

FALL 2018; WINTER 2019, 2020

♦ SOC 225

GLOBAL ISSUES**(3.00 Lecture Hrs./Wk.)****3 Credits**

Students investigate problems associated with increased globalization and transnational processes. Topics vary and may include: gaps between wealthy and poor nations; economic realignments associated with neoliberal economic policies and transnational supply chains; violence in the forms of warfare, terrorism, and transnational crime; drug and human trafficking; the causes and effects of transnational migration; the future of indigenous cultures around the world; environmental issues, consumption, and resource scarcity; drug and human trafficking; and failed states, ethno-nationalism, and genocide.

OFFERED AS NEEDED**SP SPEECH**

♦ SP 111

FUNDAMENTALS OF PUBLIC SPEAKING**(3.00 Lecture Hrs./Wk.)****3 Credits**

Students practice public communication skills both as presenters and as involved audience members. Students learn to research, organize, and deliver the major types of speeches.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

♦ SP 112

PERSUASIVE SPEECH**(3.00 Lecture Hrs./Wk.)****3 Credits**

Students study and apply persuasion for a variety of purposes including ethos assessment, irony, stumping and the jeremiad. Students become aware of prevalence of persuasion.

Prerequisite: SP 111.**SPRING 2019, 2020**

♦ SP 115

INTRODUCTION TO INTERCULTURAL COMMUNICATIONS**(3.00 Lecture Hrs./Wk.)****3 Credits**

Students explore stereotypes, general attitudes, values, life styles, cultural and gender patterns of communication in an effort to understand different cultures and gender, how individuals react to change and differences, and how language shapes our perspective.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

♦ SP 130

BUSINESS AND PROFESSIONAL SPEAKING**(3.00 Lecture Hrs./Wk.)****3 Credits**

Students continue to practice public communication skills in a more specific business and professional context by both presenting and active involvement as audience members. Students research, organize and deliver business and professional presentations.

Prerequisite: SP 111.**OFFERED AS NEEDED**

♦ SP 218

INTERPERSONAL COMMUNICATIONS**(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn interpersonal, dyadic communications. Emphasizes increasing skills to communicate within personal and work settings.

FALL 2018, 2019

♦ SP 219

SMALL GROUP DISCUSSION**(3.00 Lecture Hrs./Wk.)****3 Credits**

Students demonstrate knowledge and skill in the social and task functions of small groups. Social functions include leadership, participation, verbal and non-verbal communication and small group interaction. Task functions include problem solving, conflict management, agenda setting and group presentations.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020**SPAN SPANISH**

♦ SPAN 101

FIRST YEAR SPANISH**(4.00 Lecture, 1.00 Lecture/Lab Hrs./Wk.)****4 Credits**

Students learn basic communication skills with emphasis on oral communication and elementary grammar. Students are exposed to the culture and traditions of the Spanish-Speaking countries. This is an introduction to the Spanish language.

FALL 2018, 2019

Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with a “♦” symbol.

♦ SPAN 102

FIRST YEAR SPANISH

(4.00 Lecture, 1.00 Lecture/Lab Hrs./Wk.) 4 Credits

Students expand their basic communication skills with continued emphasis on oral communication and elementary grammar. Students continue to explore Spanish and Latin American culture through appropriate themes and audio-visual material. This is a continuation of SPAN 101.

Prerequisite: SPAN 101 or instructor approval.

WINTER 2019, 2020

♦ SPAN 103

FIRST YEAR SPANISH

(4.00 Lecture, 1.00 Lecture/Lab Hrs./Wk.) 4 Credits

Students further expand their basic communication skills with emphasis on oral communication and elementary grammar. Hispanic culture is approached through appropriate themes and audio-visual material. This is a continuation of SPAN 102.

Prerequisite: SPAN 102 or instructor approval.

SPRING 2019, 2020

♦ SPAN 111

CONVERSATIONAL SPANISH

(3.00 Lecture Hrs./Wk.) 3 Credits

Students learn basic communication skills with emphasis on oral communication and pronunciation. Grammar is limited to facilitation of conversation. Content emphasis is on meeting and greeting, obtaining, information, and meals.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

♦ SPAN 112

CONVERSATIONAL SPANISH

(3.00 Lecture Hrs./Wk.) 3 Credits

Students improve their basic communication skills with continued emphasis on oral communication. Students will be able to use language related to planning and taking a trip. This is a continuation of SPAN 111.

Prerequisite: SPAN 111 or instructor approval.

WINTER 2019, 2020; SPRING 2019, 2020

♦ SPAN 113

CONVERSATIONAL SPANISH

(3.00 Lecture Hrs./Wk.) 3 Credits

Students become more proficient in basic communication skills. Students talk about daily routines, actions in the past, and various cultural differences. This is a continuation of SPAN 112.

Prerequisite: SPAN 112 or instructor approval.

SPRING 2019, 2020

♦ SPAN 201

SECOND YEAR SPANISH

(4.00 Lecture Hrs./Wk.) 4 Credits

Students continue to develop oral communication skills. Listening and reading comprehension, with writing exercises, are integrated to develop and reinforce intermediate speaking skills. Cultural awareness is achieved through reading material, class discussions and audio-visual material. This is a continuation of SPAN 103.

Prerequisite: SPAN 103 or instructor approval.

FALL 2018, 2019

Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with a “♦” symbol.

♦ SPAN 202

SECOND YEAR SPANISH

(4.00 Lecture Hrs./Wk.) 4 Credits

Students enhance their writing, reading, and speaking ability through conversational skills and extensive writing in order to reinforce intermediate proficiency. Cultural awareness is achieved through reading material, class discussions and audio-visual material. This is a continuation of SPAN 201.

Prerequisite: SPAN 201 or instructor approval.

WINTER 2019, 2020

♦ SPAN 203

SECOND YEAR SPANISH

(4.00 Lecture Hrs./Wk.) 4 Credits

Students practice Spanish in a communicative context through reading and writing about Spanish and Spanish-American customs and traditions. Cultural awareness is achieved through reading material, class discussions and audio-visual material. This is a continuation of SPAN 202.

Prerequisite: SPAN 202 or instructor approval.

SPRING 2019, 2020

WLD WELDING

WLD 100

MATERIALS PROCESSING

(20.00 Lecture/Lab Hrs./Cr.) 1-4 Credits

Students gain knowledge of the principles, equipment and skills necessary to identify and process varied materials utilized in the metal fabrication industry. This is a competency-based program. Course curriculum follows the AWS specifications for qualification and certification of QC10 Entry Level Welder.

Prerequisite: Completion of / or concurrently enrolled in IT 140 and IT 141.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

WLD 101

SHIELDED METAL ARC WELDING

(20.00 Lecture/Lab Hrs./Cr.) 1-10 Credits

In a competency-based program, students gain knowledge of the principles, equipment and skills used in the Shielded Metal Arc Welding Process, involving base metals and joints common to industry. Course curriculum follows the AWS specifications for qualification and certification of QC10 Entry Level Welder.

Prerequisite: Instructor approval.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

WLD 102

GAS METAL ARC WELDING

(20.00 Lecture/Lab Hrs./Cr.) 1-9 Credits

In a competency-based program, students gain knowledge of the principles, equipment and skills used in the gas metal arc welding process, involving various base metals and joints common to industry. Course curriculum follows the AWS specifications for qualification and certification of QC10 Entry Level Welder.

Prerequisite: Instructor approval.

FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

WLD 103**FLUX CORE ARC WELDING****(20.00 Lecture/Lab Hrs./Cr.)****1-9 Credits**

In a competency-based program, students gain knowledge of the principles, equipment and skills used in the flux core arc welding process, involving various base metals and joints common to industry. Course curriculum follows the AWS specifications for qualification and certification of QC10 Entry Level Welder.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****WLD 104****GAS TUNGSTEN ARC WELDING****(20.00 Lecture/Lab Hrs./Cr.)****1-8 Credits**

In a competency-based program, students gain knowledge of the principles, equipment and skills used in the gas tungsten arc welding process, involving various base metals and joints common to industry. Course curriculum follows the AWS specifications for qualification and certification of QC10 Entry Level Welder.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****WLD 140****ARC WELDING TECHNOLOGIES****(10.00 Lecture/Lab Hrs./Cr.)****1 Credit**

In a competency-based program, students gain knowledge of the principles, equipment and skills used in the shielded metal, gas metal, flux core, and gas tungsten arc welding processes.

Prerequisite: Completion of / or concurrently enrolled in IT 140**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****WLD 150****BEGINNING WELDING****(20.00 Lecture/Lab Hrs./Cr.)****1-9 Credits**

The student is introduced to welding in this flexible, variable credit course designed to meet a wide variety of student goals. The point of entry into the curriculum depends on the student's previous experience with the discipline. The course is divided into small segments, called performance objectives, which allow the student to complete as many credits as they may have time to complete.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****WLD 160****INTERMEDIATE WELDING****(20.00 Lecture/Lab Hrs./Cr.)****1-12 Credits**

Students develop welding skills to industrial standards in any or all of the following processes: shielded metal arc welding, gas metal arc welding, and flux core arc welding in all positions; and tungsten inert gas welding on carbon steel, stainless steel and aluminum. Students learn basic welding metallurgy and weld testing methods.

Prerequisite: Entry level dependent on completion of WLD 150 or previous experience and instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****WLD 170****ADVANCED WELDING****(20.00 Lecture/Lab Hrs./Cr.)****1-15 Credits**

Students develop welding skills to job entry level including welding design and fabrication methods, joint design, and fundamental welding metallurgy.

Prerequisite: WLD 160 or instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****WLD 190****WELDING CERTIFICATION PREPARATION****(20.00 Lecture/Lab Hrs./Cr.)****1-9 Credits**

Students develop skill in the forms of welding tested in various welding certification examinations including pipe and plate welding skills.

Prerequisite: WLD 160 or instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****WLD 205****ADVANCED SHIELDED METAL ARC WELDING****(20.00 Lecture/Lab Hrs./Cr.)****1-15 Credits**

Students gain knowledge of the principles, equipment and skills used in the Shielded Metal Arc Welding Process, involving base metals and joints common to industry. Course curriculum includes portions of the AWS specifications for qualification and certification of QC11 Advanced Welder, in a competency-based program.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****WLD 206****ADVANCED GAS METAL ARC WELDING****(20.00 Lecture/Lab Hrs./Cr.)****1-9 Credits**

Students gain knowledge of the principles, equipment and skills used in the gas metal arc welding process, involving various base metals and joints common to industry. Course curriculum includes portions of the AWS specifications for qualification and certification of QC11 Advanced Welder, in a competency-based program.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****WLD 207****ADVANCED FLUX CORE ARC WELDING****(20.00 Lecture/Lab Hrs./Cr.)****1-9 Credits**

Students gain knowledge of the principles, equipment and skills used in the flux core arc welding process, involving various base metals and joints common to industry. Course curriculum includes portions of the AWS specifications for qualification and certification of QC11 Advanced Welder, in a competency-based program.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****WLD 208****ADVANCED GAS TUNGSTEN ARC WELDING PROCESS****(20.00 Lecture/Lab Hrs./Cr.)****1-8 Credits**

Students gain knowledge of the principles, equipment and skills used in the gas tungsten arc welding process, involving various base metals and joints common to industry. Course curriculum includes portions of the AWS specifications for qualification and certification of QC11 Advanced Welder, in a competency-based program.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020****WLD 209****WELDING FABRICATION****(20.00 Lecture/Lab Hrs./Cr.)****1-10 Credits**

Students gain knowledge of the principles, equipment and skills used in welding fabrication, involving various base metals and joints common to industry, in a competency-based program.

Prerequisite: Instructor approval.**FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020**

WR

WLD 210
PIPE WELDING FABRICATION
(20.00 Lecture/Lab Hrs./Cr.) **1-12 Credits**
Students gain knowledge of the principles, equipment and skills used in the shielded metal, gas metal, flux core, and gas tungsten arc welding for the three general categories of pipe welds, in a competency-based program.
Prerequisite: Instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

WLD 220
STRUCTURAL STEEL WELDING
(20.00 Lecture/Lab Hrs./Cr.) **1-15 Credits**
Students gain knowledge of the principles, equipment, and skills used in Structural Steel Welding, involving base metals and joints common to industry. Course curriculum includes portions of the AWS D1.1, AWS D1.5, and AWS D1.8 specifications for qualification and certification, in a competency-based program.
Prerequisite: Instructor approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

WR WRITING

WR 115
INTRODUCTION TO COLLEGE WRITING
(4.00 Lecture Hrs./Wk.) **4 Credits**
Students identify and respond appropriately to a variety of rhetorical situations. Students review and practice identifying and correcting sentence-level issues in grammar, punctuation, spelling, and mechanics, learning to approach writing as a process that includes prewriting, drafting, revising and careful proofreading. Students draft effective paragraphs and short essays that possess clarity, unity and coherence. This preparatory course introduces the conventions and skills of college-level writing.
Prerequisite: LA 090 or see advisor for placement score approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020

WR 121
ENGLISH COMPOSITION
(4.00 Lecture Hrs./Wk.) **4 Credits**
Students practice writing different kinds of essays: descriptive, narrative, expository, and argumentative. Students explore the writing process and work on the steps that lead to a good essay: pre-writing, drafting, revising, editing, and proofreading. Students share drafts with peer editors and use available tools such as grammar handbooks, computer tools, the writing lab, and the library learning lab. Students review basic fundamentals of grammar, spelling, and punctuation. Students are also introduced to information literacy and research methods and find appropriate electronic, print, and primary sources to include in the support of the thesis. Students document outside sources using either MLA or APA style and understand what plagiarism is and how to avoid it.
Prerequisite: See advisor for placement score approval.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020; SUMMER 2019, 2020

WR 122
ADVANCED COMPOSITION
(4.00 Lecture Hrs./Wk.) **4 Credits**
Students write formal expository, argumentative, and persuasive essays that use logical and rhetorical strategies for developing a dynamic thesis. Student essays synthesize a balanced presentation of the author's own views and knowledge with research obtained from primary sources and secondary sources (print and electronic). Students will be improve their revision and proofreading skills by editing their own work and the works of others. Mastery of correct grammar, spelling, and punctuation is required. Students learn more about informational literacy and advanced research methods and recognize how their original essays build on and contribute to existing academic and professional discourse. Emphasis is on sharing finished essays with others either through speeches, presentations, or publication. Advanced Composition builds on the skills developed in WR 121 to help students write longer, more developed, and more polished essays.
Prerequisite: WR 121.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020; SUMMER 2019, 2020

WR 227
TECHNICAL WRITING
(4.00 Lecture Hrs./Wk.) **4 Credits**
Students prepare for the many writing tasks they will encounter in the workplace. Students learn principles designed to give them the tools and practice they need to respond effectively to varied writing situations. With these principles, students determine the research plan, organization, content, and writing style that best meets the needs of their workplace environment. Students practice writing in a variety of modes: letter, instructions, report, proposal, and feasibility study. Students also learn how document design and technology can be used to share their writing more effectively with others either on paper or electronically.
Prerequisite: WR 121.
FALL 2018, 2019; WINTER 2019, 2020; SPRING 2019, 2020; SUMMER 2019, 2020

WR 240
CREATIVE WRITING – NONFICTION
(3.00 Lecture Hrs./Wk.) **3 Credits**
Students will explore the conventions and techniques of creative nonfiction writing: personal essay, memoir, reportage and more through a variety of formal and informal writing assignments. Beginning with Montaigne, and moving to the contemporary plethora of excellent popular nonfiction, guided discussion of assigned readings will place the genre in a historical and cultural context and illuminate elements of craft. Approaching writing as a recursive process that includes invention, drafting, revision, and finally careful proofreading, students will engage in workshop-style critique sessions of their own and other students' work.
Prerequisite: WR 121 or instructor approval.
OFFERED AS NEEDED

WR 241
CREATIVE WRITING - FICTION
(3.00 Lecture Hrs./Wk.) **3 Credits**
Students write short stories or novel chapters and read and critique short stories written by members of the class and published authors.
OFFERED AS NEEDED

WR 242**CREATIVE WRITING - POETRY****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students explore the techniques and conventions of poetry by reading and writing poetry with or without meter, rhyme, or stanzas and critique poems written by members of the class and major historic and contemporary poets. Oral presentation of published poets will encourage students to examine the origins of aesthetic traditions, placing the craft of poetry in a historical and cultural context.

OFFERED AS NEEDED**WR 249****WRITING CHILDREN'S BOOKS****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students learn the techniques of writing for children: choosing an appropriate topic, creating vivid characters, using visual imagery, editing for young readers, and determining age appropriateness. Students will write fiction, non-fiction, and poems, and will design a picture book. Publishing will also be discussed.

OFFERED AS NEEDED**WR 270****LITERARY PUBLISHING****(3.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)****4 Credits**

Participating in a collaborative staff environment, students learn the fundamentals of professionally publishing a literary magazine. Students use discipline appropriate technology to edit, design and layout a publication and prepare it for press.

Prerequisite: WR 121 or instructor approval.**WINTER 2019, 2020****WR 271****ADVANCED LITERARY PUBLICATIONS****(3.00 Lecture, 2.00 Lecture/Lab Hrs./Wk.)****4 Credits**

Students develop advanced skills in the craft of magazine editing, writing, publication, and design. Students take responsibility for literary publishing activities including analyzing submissions, coordinating a production schedule, corresponding with contributors, fundraising, designing pages and covers, communicating with publishers, and promoting the final publication.

OFFERED AS NEEDED**WS****WOMEN'S STUDIES****♦ WS 111****GENDER, BEAUTY IDEALS AND MEDIA****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students will explore the impact beauty ideals have on women and girls in the United States. Disordered eating, violence against women, and Eurocentrism will be analyzed, specifically in how they relate to beauty standards.

FALL 2018, 2019**♦ WS 201****INTRODUCTION TO WOMEN'S STUDIES****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students are introduced to the interdisciplinary field of Women's Studies. Students explore ways in which sex and gender are used in social, cultural, and political contexts. Students dissect the social construction of gender and will analyze and critique gendered experiences. In addition, students study interlocking systems of oppression such as homophobia/heterosexism, racism, classism, sexism, -bleism and ethnocentrism.

Prerequisite: SOC 204 or SOC 205.**OFFERED AS NEEDED****♦ WS 210****CULTURAL PERSPECTIVE OF WOMEN OF COLOR****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students will examine Women of Color writers' contributions to feminist theory. Topics such as feminism, womanism, patriarchy, racism, classism, immigration, sexuality and dominant culture will be explored.

OFFERED AS NEEDED**♦ WS 221****WOMEN, DIFFERENCE AND DISCRIMINATION****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students explore ways in which gender is socially constructed and how that construction affects women's lives materially, culturally and spiritually. Students analyze and critique concepts of difference, discrimination and power and privilege.

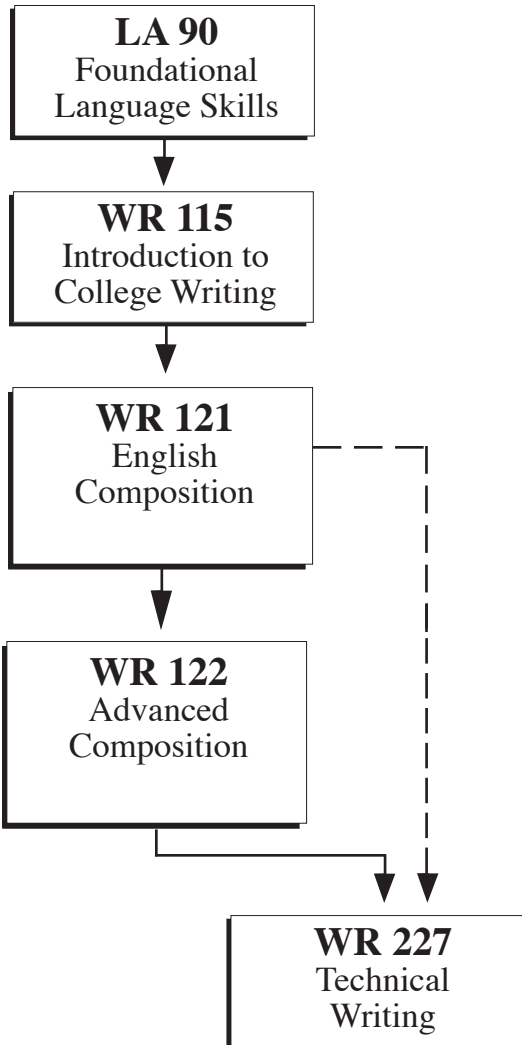
OFFERED AS NEEDED**♦ WS 230****WOMEN AND SOCIAL ACTION****(3.00 Lecture Hrs./Wk.)****3 Credits**

Students will examine women's roles in social action/activism throughout the 19th, 20th and 21st centuries. Systems of oppression such as sexism, classism, racism and heterosexism will be analyzed. Social movements such as the suffragist, civil rights, women's rights, gay and lesbian rights and eco-feminism will be critically analyzed and critiqued.

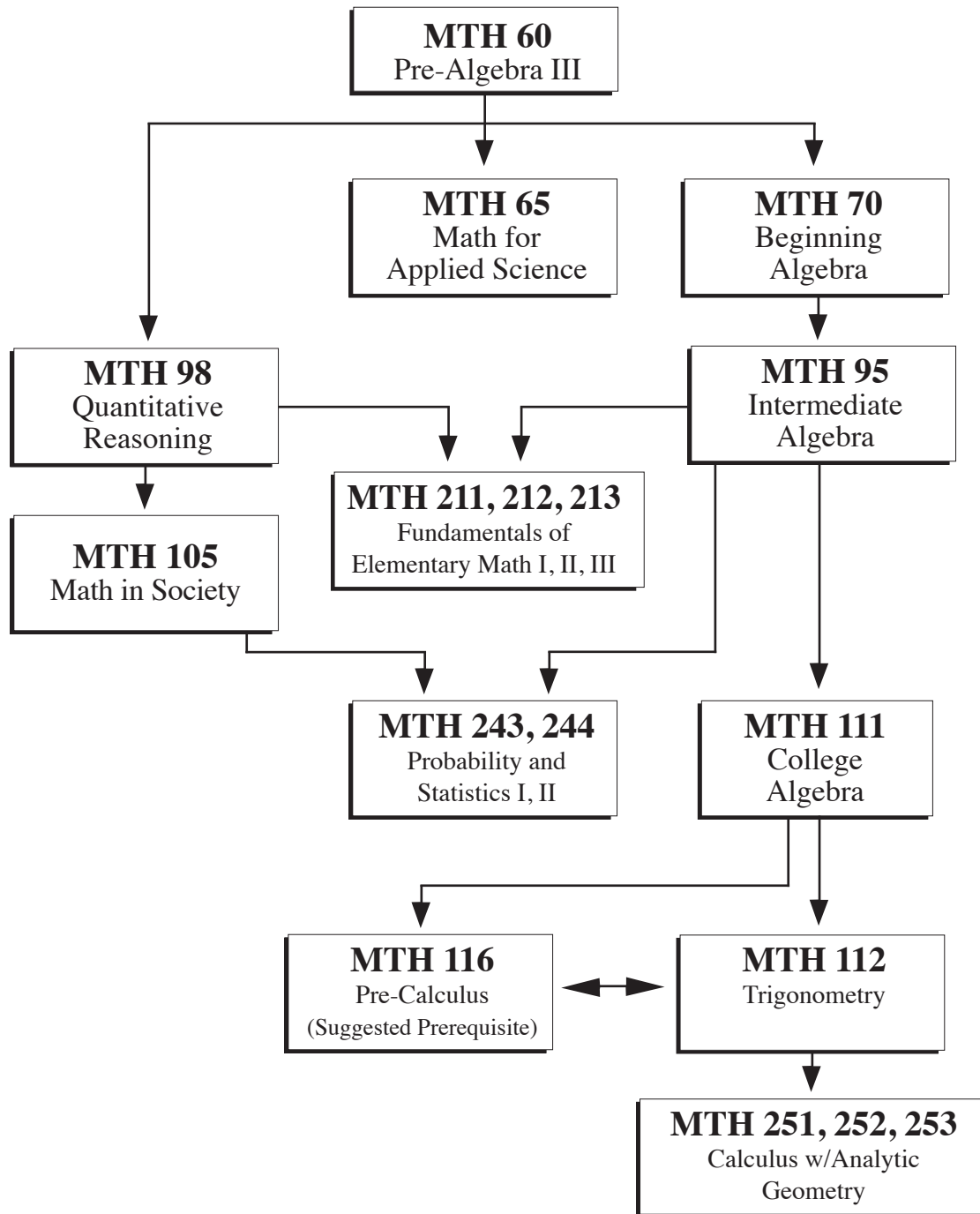
OFFERED AS NEEDED

Cultural Literacy outcomes will be included in courses that meet the outcomes and criteria of a Discipline Studies requirement. Courses that meet the Cultural Literacy requirement are noted with a "♦" symbol.

SEQUENCE OF WRITING COURSES



SEQUENCE OF MATHEMATICS COURSES



FACULTY

Clatsop Community College

ADLER, CAROLYN
INSTRUCTOR, NURSING

B.S. Nursing, St. Joseph's College, 2001; M.S. Nursing, Walden University, 2006; at Clatsop Community College since 2005.

ANTILLA, WILLIAM
INSTRUCTOR, MARITIME SCIENCE

Experience in commercial fishing; licensing through US Coast Guard; at Clatsop Community College since 1995.

BEVERIDGE, RICHARD
INSTRUCTOR, MATHEMATICS

B.S. Mathematics, University of Maine; B.A. French, University of Virginia; M.A. Mathematics, University of Maine; M.Ed. Oklahoma City University; at Clatsop Community College since 2004.

BROWN, JULIE
INSTRUCTOR, WRITING

B.S. English, Oregon State University, 1979; M.F.A. Creative Writing, University of Montana, 1985; Ph.D. English, University of Wisconsin, Milwaukee, 1990; at Clatsop Community College since 1995.

BUNCH, MICHAEL
INSTRUCTOR, BIOLOGY

B.A. Zoology, M.A. Biology, Humboldt State University, 1970; M.Ed. Educational Technology, Arizona State University, 1985; Doctor of Arts, Biology, Idaho State University, 1975; at Clatsop Community College since 1993.

CARPENTER, JENNIFER
INSTRUCTOR, NURSING

A.A. Foods and Nutrition, Portland Community College, 1999; B.S.N. University of Portland, 2004; MBA/MSN, University of Phoenix, 2016; at Clatsop Community College since 2017.

COOK, NANCY
INSTRUCTOR, WRITING

B.S. Interdisciplinary Studies emphasizing creative writing and environmental science, Evergreen State College; M.F.A. Writing, University of Alaska; at Clatsop Community College since 2004.

DONALDSON, KURT
INSTRUCTOR, FIRE SCIENCE

B.S. Education, Western Oregon University, 1998; M.S. Education, Western Oregon University, 2004; at CCC since 2009.

EATON, KEVIN
INSTRUCTOR, WELDING

28 years experience in the welding industry. Welding certificate from Columbia Basin College, at Clatsop Community College since 2017.

FULTON, JESSE
INSTRUCTOR, WELDING

24 years of experience in metal trades and industry; AWS certified; at Clatsop Community College since 2010.

GUIDI, DALE (DEAC)
INSTRUCTOR, SPEECH

B.A. Speech Communication, Montana State University; M.A. Speech Communication, Idaho State University; at Clatsop Community College since 2000.

KEEFE, PAT
INSTRUCTOR, PHYSICS/PHYSICAL SCIENCE

B.S. Physics, Baker University, 1986; M.S. Physics, Portland State University, 1990. Experience in training staff of volunteers at OMSI for public hands-on experiments; at Clatsop Community College since 1991.

KOTSON, CHRISTINA (TINA)
INSTRUCTOR, NURSING

B.A. Journalism, Gonzaga University, 1986; M.B.A. Gonzaga University, 1988; A.A.S. Nursing, Clatsop Community College, 2002; M.S. Nursing, Excelsior College, 2015; at Clatsop Community College since 2013.

LACKNER, TIMOTHY (TJ)
INSTRUCTOR, MATHEMATICS

B.A. Speech Communication, Moorhead State University; B.S. Mathematics, Dickinson State University, 2004; M.S. Mathematics, Washington State University, 2007; at Clatsop Community College since 2007.

MANSELL, ROBERT
INSTRUCTOR, PSYCHOLOGY

B.A. Psychology, University of Oklahoma, 1998; M Ed Instructional Psychology and Technology, University of Oklahoma, 2007; at Clatsop Community College since 2010.

NASSTROM, KARSON
INSTRUCTOR, NURSING

B.S. Nursing, Humboldt State University, 2000; M.S. Nursing, Long Beach State University, 2004; at Clatsop Community College since 2014.

FACULTY

Clatsop Community College

NOLAN, THAD

INSTRUCTOR, AUTOMOTIVE

A.A.S. Electronic Engineering, Clatsop Community College 1982; 25 plus years in Automotive Industry; at Clatsop Community College since 2015.

PETERSON, CELESTE

INSTRUCTOR, MATHEMATICS

B.A., Western Oregon State College Elementary Education 1991. M.A. Mathematics Education, Western Governors University 2014. At Clatsop Community College 2016.

POTTER, BRYCE

INSTRUCTOR, MARITIME SCIENCES

B.A. Geology, Bates College. 2002; B.S. Small Vessel Operations, Maine Maritime Academy, 2006; at Clatsop Community College since 2017.

REDWINE, TOMMIE

INSTRUCTOR, BUSINESS ADMINISTRATION

M.A.T. (Teaching), Pacific University, 1996; M.B.A. Pepperdine University, 1994; B.A., University of Kansas, Psychology, Speech and Drama, 1969; marketing executive in the entertainment industry; experience in advertising and graphic design; at Clatsop Community College since 2002.

ROJAS-GALVIN, FERNANDO

INSTRUCTOR, SPANISH

B.A. Interdisciplinary Studies, University of Portland; B.A. Secondary Education, College of Santa Fe; M.A. Spanish, University of New Mexico; at Clatsop Community College since 2017.

RUSSELL, ELDON

INSTRUCTOR, MARITIME SCIENCE

13 years in the commercial fishing industry. Licensing through US Coast Guard; at Clatsop Community College since 2016.

SHAUCK, KRISTIN

INSTRUCTOR, ART (2-D)

B.F.A. Baylor University, 1989; M.F.A. Texas A&M-Commerce, 1993; at Clatsop Community College since 2004.

SWERDLOFF, LUCIEN

INSTRUCTOR, HISTORIC PRESERVATION & COMPUTER AIDED DESIGN

B.A. Mathematics, State University of New York, 1981; Masters of Architecture, SUNY, Buffalo, 1986; M.S. Computer Science SUNY, Buffalo, 1988; at Clatsop Community College since 2000.

TOYAS, TEENA

INSTRUCTOR, PHYSICAL EDUCATION/HEALTH

B.S. Health and Physical Education; Austin Peay State University, 1978; M.A., Health, PE, and Recreation, Murray State University, 1979; at Clatsop Community College full-time since 2001.

TUMBARELLO, HOLLY

INSTRUCTOR, MEDICAL ASSISTING

B.S. Nursing, Southern Illinois University, 1990; at Clatsop Community College since 2007.

WARWICK, NICHOLE

INSTRUCTOR, BIOLOGY, A & P

B.S. Biology, Idaho State University, 2002; M.S. Biology, Idaho State University, 2007; at Clatsop Community College since 2007.

DEVON, WEAVER

INSTRUCTOR, NURSING

BA in psychology and German. Bowling Green State University 2002 Associates Degree, Nursing, Clatsop Community College 2013. At Clatsop Community College since 2016; B.S.N. Walden University, 2017.

WILLIAMS, TOM

INSTRUCTOR, MARITIME SCIENCE

A.A. Medical Lab Technology, Shoreline Community College, 1977; 1600 Ton Master Oceans; 100 Ton Master Ocean Auxiliary Sail; at Clatsop Community College since 2000.

BOARD OF DIRECTORS

Term Expires in June

Karen Burke, Chair	2019
Robert Duehmig, Vice Chair	2021
Rosemary Baker Monaghan	2021
Tessa James Scheller	2019
Esther Moberg	2019
Anne Teaford-Cantor	2021
Andrea Mazzarella	2019

ADMINISTRATIVE & SUPERVISORY STAFF

Clatsop Community College

ALFORD, SHELLY

TRIO STUDENT SUPPORT SERVICES

GUIDANCE COORDINATOR/

DISABILITY SERVICE COORDINATOR (1 YEAR ASSIGNMENT)

B.S. Elementary Education and Psychology, Western Connecticut State University, 2001; M.S. Education, Portland State University, 2008; at Clatsop Community College since 2018.

ANTILLA, MARGARET

DIRECTOR, ACCOUNTING SERVICES

A.A.S. Accounting, College of the Albemarle, NC; at Clatsop Community College since 1995.

BARNUM, SIV SERENE

REGISTRAR

B.A. History, University of Oregon 1994. M.A. Curriculum & Instruction Portland State 2013.

BISEK, MATT

UPWARD BOUND COLLEGE/CAREER ADVISOR

B.S. Finance, University of St. Francis, 2010; M.Ed., Concordia University, 2016; at Clatsop Community College since 2017.

BREITMEYER, CHRISTOPHER

PRESIDENT

B.S. Biology Education, Illinois State University; M.S. Zoology, Arizona State University; at Clatsop Community College since 2016

DEMOSS, T.R.

EMT/PARAMEDIC COORDINATOR

A.A.S. Para-medicine, University of Anchorage, 2007; at Clatsop Community College since 2018.

DORCHEUS, GREGORY

DIRECTOR, PHYSICAL PLANT

Extensive training and working in the physical plant maintenance field; at Clatsop Community College since 1997.

FRIMOTH, MARGARET

VICE PRESIDENT OF ACADEMIC AFFAIRS

B.A. in Human Studies from the World College West; M.A. in Values from the San Francisco Theological Seminary; Ph.D. Transformative Studies, California Institute of Integral Studies 2013; at Clatsop Community College since 2003.

GELEYNSE, SARAH

FINANCIAL AID COORDINATOR

A.A.O.T. Clatsop Community College, 2002; B.S. Psychology, University of Oregon, 2007; at Clatsop Community College since 2008.

GRAVES, JONATHAN

DIRECTOR, TRIO PRE-COLLEGE PROGRAMS

B.A. Geology and Environmental Sciences, Bowdoin College, 1987; M.S. Marine Resource Management, Oregon State University, 1991; at Clatsop Community College since 2006.

HALL, LESLIE

DIRECTOR, HUMAN RESOURCES

B.A. Art History, B.A. Studio Art, Eastern Washington University 1990; Human Resources Management Certification, Linfield College, 2009; at Clatsop Community College since 2009.

HENRI, TROY

TALENT SEARCH AND UPWARD BOUND/CAREER ADVISOR

B.A. Environmental Studies, University of California, Santa Cruz, 2000; M.A. Intercultural Service, Leadership and Management, SIT Graduate Institute, 2008; at Clatsop Community College since 2016.

JACKSON, MARY

CAREER AND TECHNICAL EDUCATION

REGIONAL COORDINATOR

B.S. Criminal Justice, Seattle University, 1998; M.S. Criminal Justice, Northern Arizona University, 2001; at Clatsop Community College since 2017.

KLEVER, SUNNY

DIRECTOR, COLLEGE FOUNDATION

B.S. Business Administration, College of Charleston, 1988; B.S. Accounting, Rollins College, 1990; M.B.A., Marylhurst University, 2014; at Clatsop Community College since 2016.

KOVATCH, JULIE

DIRECTOR, COMMUNICATIONS AND MARKETING

B.S. Education, Montana State University Billings, 2000; M.S. Public Relations, Montana State University Billings, 2009; at Clatsop Community College since 2016.

LEAHY, KEVIN

DIRECTOR, CEDR & SBDC

B.S. Business Administration, Oregon State University, 1977; at Clatsop Community College since 2011.

MAGNUSSEN, AMY

GUIDANCE COORDINATOR, PLUS PROGRAM

B.A. Art History, Northern Illinois University, 1994; at Clatsop Community College since 2007.

MCCLURE, DAN

DIRECTOR, LIBRARY

B.S. Journalism, University of Oregon, 2001; M.S. Library Information Systems, University of North Carolina, 2005; at Clatsop Community College since 2017.

MUELLER, LLOYD

DIRECTOR, FINANCIAL AID

B.F.A. Milwaukee Institute of Art and Design, 1978; at Clatsop Community College since 2011.

NEWHALL, JESSICA

SMALL BUSINESS DEVELOPMENT CENTER ADVISOR

B.S. Business Administration, University of Colorado, 1999; at Clatsop Community College since 2018.

ADMINISTRATIVE & SUPERVISORY STAFF

Clatsop Community College

NYBERG, LISA

DIRECTOR, COOPERATIVE EDUCATION AND CAREER COUNSELING

B.A. Elementary Education, Linfield College, 1990. Certification with the National Association of Workforce Development Professionals; at Clatsop Community College since 2008.

OLSON, LEAH

COMMUNITY EDUCATION AND WORKFORCE DEVELOPMENT COORDINATOR

B.S. Business Administration, John Brown University, 2007; B.A. Graphic Design, Portland State University, 2014; at Clatsop Community College since 2018.

OUSLEY, CHRIS

DEAN OF STUDENT SERVICES

B.S. Advertising, Northern Arizona University, Flagstaff, 1991; M.A. Journalism, University of Arizona, Tucson, 1996; Ph.D. Higher Education, University of Arizona, Tucson, 2010; at Clatsop Community College since 2010.

OUSLEY, MELISSA

STUDENT SERVICES SPECIALIST

B.A. English Education, University of Arizona, 1996; M.A. Counseling, Chapman College, 1997; Ph.D. Higher Education, University of Arizona, 2003; at Clatsop Community College since 2017.

PAYTON, MEREDITH

COLLEGE/CAREER ADVISOR, TRIO PRE COLLEGE PROGRAM

B.A. International Studies, University of Idaho, 2010. At Clatsop Community College since 2016.

PURCELL, EILEEN (PERCY)

OUTREACH LITERACY TUTOR COORDINATOR

B.A. and M.A., History; M.L.S. State University of New York; at Clatsop Community College since 2004.

RIEHL, CHRISTINE

DIRECTOR, PLUS PROGRAM

B.S. Biochemistry/Biophysics, Oregon State University, 1987; M.S. Human Development, Counseling, and Family Studies, University of Rhode Island, 1991; at Clatsop Community College since 2004.

RIEHL, GREG

DIRECTOR, COMPUTER SERVICES

B.A. Foreign Languages and Literatures, minor in Naval Science, Oregon State University; at Clatsop Community College since 2004.

ROSS, KEN

SYSTEMS ADMINISTRATOR

A.A.S. Computer Programming, Iowa Western Community College, 1993; at Clatsop Community College since 2014.

RUSSELL, DENISE

COLLEGE STORE MANAGER

B.S. Psychology, East Tennessee St. University, 1990; M.A. Psychology, East Tennessee St. University, 1992; at Clatsop Community College since 2011.

SANSOM, ALLISON

DIRECTOR, NURSING AND ALLIED HEALTH

B.S. Nursing, Linfield College, 1992; M.S. Nursing, Walden University, 2013; at Clatsop Community College since 2012.

STAMPER, ANNA

CLATSOP WORKS INTERNSHIP COORDINATOR

B.S. Government, United States Coast Guard Academy, 1999; M.S. Secondary Education, Old Dominion University, 2004; at Clatsop Community College since 2018.

STOKES, MINDY

DIRECTOR, LIVES IN TRANSITION/TRANSICIONES PROGRAM

B.A. Dietetics, Chico State University, 1998; M.A. Gender Studies, University of South Florida, 2003; at Clatsop Community College since 2017.

TOYAS, TEENA

DEAN OF TRANSFER EDUCATION AND INSTRUCTION

B.S. Health and Physical Education; Austin Peay State University, 1978; M.A., Health, PE, and Recreation, Murray State University, 1979; at Clatsop Community College full-time since 2001.

WHITE, KASEY

TRIO PRE-COLLEGE PROGRAMS COLLEGE/CAREER ADVISOR

B.A. Sociology and Women's Studies. Colorado State University, 2000; at Clatsop Community College since 2018.

WILKIN, KRISTEN

DEAN, WORKFORCE EDUCATION AND TRAINING

B.A. Political Science, Pepperdine University, 1994; M.P.A. Public Administration, Portland State University, 1996; at Clatsop Community College since 1999.

ZAHN, JOANN

VICE PRESIDENT OF FINANCE & OPERATIONS

A.S. General Business, Mt. Hood Community College, 1996; A.S. Accounting Technology Mt. Hood Community College, 1996; B.S. Business Administration/Accounting Eastern Oregon University, 2005; M.B.A. North Park University, 2012; at Clatsop Community College since 2011.

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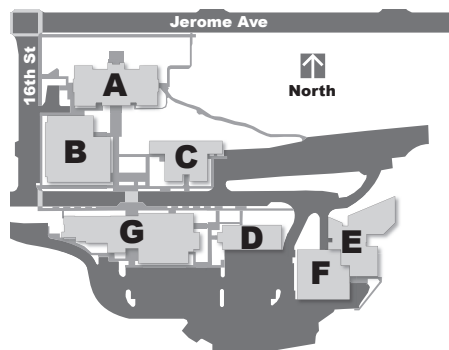
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CAMPUS INFORMATION

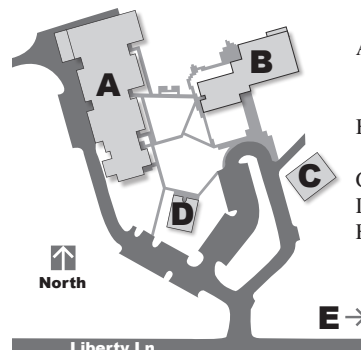
Admissions.....	503-338-2411 or 1-855-252-8767, ext. 2411 (toll free)	Instruction, Office of.....	503-338-2440
Apprenticeship	503-338-2352	Library.....	503-338-2462
A.S.G. Office.....	503-338-2495	Literacy Coordinator.....	503-338-2557
Cafeteria.....	503-338-2338	Lives in Transition	503-338-2377
Career Planning.....	503-338-2480	Maritime Science Center.....	503-325-7962
Carl Perkins Program	503-338-7670	Payroll.....	503-338-2439
CEDR.....	503-338-2402	Phi Theta Kappa.....	503-338-2319
Clatsop WORKS	503-338-2507	Plus Program.....	503-338-2346
Community Education	503-338-2408	President's Office	503-338-2425
Communications & Marketing	503-338-2429	Publications & Graphic Design	503-338-2513
Computer Lab, Library	503-338-2329	Records/Registration.....	503-338-2411
Cooperative Work Experience	503-338-2480	Scholarships	503-338-2567
Counseling	503-338-2409	Small Business Management	503-338-2402
Developmental Education	503-338-2347	South County Campus/SBDC.....	503-338-2402
Disabilities Specialist.....	503-338-2474	Student Accounts	503-338-2330
Educational Talent Search.....	503-338-2370	Student Services Center.....	503-338-2411 or 503-338-2371
Finance & Operations	503-338-2422	Testing Center	503-338-2426
Financial Aid.....	503-338-2322	Title IX Coordinator.....	503-338-2450
Fire Science.....	503-338-7650	Tutoring Lab	503-338-2455
Foundation	503-338-2306	Upward Bound.....	503-338-2370
G.E.D. Program.....	503-338-2347	Veteran's Services.....	503-338-2322
G.E.D. Testing.....	503-338-2481	Work Experience.....	503-338-2480
Human Resources	503-338-2406	Workforce Training.....	503-338-2408
Industrial Manufacturing Tech. Center (IMTC)	503-338-7670		

Lexington Campus (Astoria)



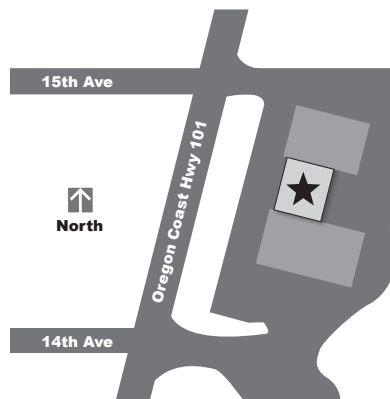
- A: Towler Hall
- B: Patriot Hall
- C: Dora Badollet Library
- D: Services Center
- E: Art Building
- F: Alder Hall
- G: Columbia Hall

MERTS Campus (Astoria)



- A: Industrial & Manufacturing Technology Center
- B: Maritime Science Center
- C: Fire School
- D: Living Machine®
- E: Maritime Vessel

South County Campus / CEDR / SBDC (Seaside)



Lexington Campus:
 Clatsop Community College
 1651 Lexington Avenue
 Astoria, OR 97103
 503-338-2400
 Fax: 503-325-5738
 www.clatsopcc.edu
 Admissions: 503-338-2411
 admissions@clatsopcc.edu

South County Campus:
 Clatsop Community College
 1455 N. Roosevelt (Hwy. 101)
 Seaside, OR 97138

MERTS Campus:
 Maritime Science Department
 6550 Liberty Lane
 Astoria, OR 97103

Fire School
 6562 Liberty Lane
 Astoria, OR 97103

Industrial & Manufacturing
 Technology Center
 6540 Liberty Lane
 Astoria, OR 97103

Living Machine®
 6540 Liberty Lane
 Astoria, OR 97103

CAMPUS LOCATIONS

ACADEMIC CALENDAR 2018 - 2019

	SUMMER 2018	FALL 2018	WINTER 2019	SPRING 2019
REGISTRATION BEGINS *	May 8	May 16	November 7	February 21
CLASSES BEGIN	June 25	September 24	January 7	April 1
LATE REGISTRATION	June 25–29	September 24–28	January 7–11	April 1–5
NO SCHEDULED CLASSES - COLLEGE OPEN	August 20 – September 21	December 10–22	March 25–29	June 17–21
HOLIDAYS & COLLEGE CLOSURES	July 4 September 3 Closed Fridays; July 2 – August 31	November 22–23 December 24–31	January 21 February 18	May 27
FINALS BEGIN	August 13	December 3	March 18	June 10
END OF TERM	August 16	December 7	March 22	June 14
GRADUATION				June 14

** Students with 45 credits or more may register one day earlier than the date listed.
Veterans may register two days earlier than the date listed.*



**Clatsop
Community
College**



Clatsop Community College Admissions Office
1651 Lexington Ave., Astoria, OR 97103
503-338-2411