Chemeketa Locations

Salem Campus
4000 Lancaster Dr. NE Salem, OR 97305-1453

Chemeketa Polk
1340 SE Holman Ave. Dallas, OR 97338

Yamhill Valley Campus
288 NE Norton Lane McMinnville, OR 97128-9508

Chemeketa Woodburn
120 E Lincoln St. Woodburn, OR 97071-5024

Chemeketa Brooks
4910 Brooklake Rd. NE Brooks, Oregon 97305

Center for Business & Industry
626 High Street NE Salem, OR 97301-2438

Chemeketa Eola
215 Doaks Ferry Rd. NW Salem, OR 97304-4138

High School Partnerships
4071 Winema Place, Salem, OR 97305
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Welcome to Chemeketa
www.chemeketa.edu
Chemeketa is your community college. It is a place where you can accomplish almost any educational goal you have in mind.

At Chemeketa, you can finish your first two years of college, take the career and technical training you need to qualify for a job, or finish your high school education. You can also explore career ideas, retain or add job skills, get professional help on how to run a business, pursue a special interest, or broaden your education.

You can pursue your educational goals in a format that fits your needs. As a full-time student, you can finish a one or two-year program, or, as a part-time student, you can take a class or a workshop.

You can attend classes and special events on the Salem or Yamhill Campuses or at the college’s Brooks, Polk County (Dallas), Eola, or Woodburn locations. We also offer classes in schools and other locations in communities throughout the college district. You can even stay home and take a class online that will fit your needs and schedule.

Whatever your goals and interests, we are committed to help you enhance the quality of your life through learning.

Programs
Chemeketa has three areas of study:
Career and technical education Prepares you to qualify for work in specific fields. You can enroll in more than 30 career and technical training programs.

The Meaning of Chemeketa
The name Chemeketa is a Kalapuya word meaning “place of peace.” Long before settlers came to this area, Willamette Valley Native Americans would gather at a place they called Chemeketa, today known as Salem. There, they conducted their councils, renewed friendships, shared old ideas, and cultivated new ones. It is hoped that those who come to Chemeketa today will do just the same.

The meaning of Chemeketa is illustrated on the sculptured wall panels (pictured here) which appear on Building 3 on our Salem Campus. Designed by graphic artist Arvid Orbeck, the panels symbolize the territorial divisions of the tribes and the movement of the tribes toward the established meeting place.

As the tribes move through the territorial divisions, the carved designs become less aggressive and less linear. Softer curves start to enter into the forms, showing more peaceful attitudes. The final points of the arrow shapes become completely calm upon reaching the center, where the individual chiefs, each indicated with his own form of dress, decoration, and behavior, sit down in a formal circle for peaceful work.
In some of these, you can earn a Certificate of Completion in one year or less. Many programs have other certificates that credential you to work in jobs in your field while attending college. In most programs, you can earn an Associate of Applied Science degree. It usually takes two years to meet the requirements; it may take longer if you attend part time or don’t have the prerequisite skills.

In addition to vocational classes, Chemeketa’s career and technical education programs include general education courses. The aim of these courses is to help you become more competent in writing and mathematics and gain knowledge of the humanities, communications, sciences, and social sciences. See page 54 for general education information.

**College transfer courses** If you wish to continue your education at a four-year college or university, you can complete the one-year Oregon Transfer Module (see page 57), or if you successfully complete Chemeketa’s two-year college transfer program, you can also earn an Associate of Arts Oregon Transfer degree. See page 58 for requirements.

Some career and technical education programs also include courses that may be transferred for college credit. For more specific information, consult with a Chemeketa counselor or advisor, or with an advisor at the four-year institution you wish to attend. Generally, transfer courses are numbered 100 or above.

**Developmental skill building classes** Offered for you to learn basic reading, writing, mathematics, and study skills; finish high school; or learn English.

Chemeketa schedules classes during the day, evenings, and on weekends.

**Faculty**

Chemeketa employs over 200 full-time faculty members. In general, faculty who teach college transfer courses have at least a master’s degree; some have doctoral degrees. Faculty in career and technical programs generally have a rich background that combines education with practical, on-the-job experience. In addition, hundreds of experienced, professional part-time faculty teach day, evening and weekend classes.

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**Chemeketa Community College Guiding Principles**

**Vision** Chemeketa will be a catalyst for individuals, businesses, and communities to excel in diverse and changing environments.

**Mission** Chemeketa provides opportunities for students to explore, learn, and succeed through quality educational experiences and workforce training.

**Values**
- **Collaboration** – We collaborate to ensure purposeful, effective programs and services that support all students. We welcome diverse perspectives and encourage the free exchange of ideas.
- **Diversity** – We are a college community enriched by the diversity of our students, staff, and community members. Each individual and group has the potential to contribute in our learning environment. Each has dignity. To diminish the dignity of one is to diminish the dignity of us all.
- **Equity** – We promote a just and inclusive environment in which all individuals receive equitable support to reach their full potential. We do this through fair treatment, access, opportunity, and advancement for all, aiming to identify and eliminate barriers that have prevented the full participation of some groups.
- **Innovation** – We innovate through reflection, analysis, and creativity. We design quality instruction, programs, and services to prepare students to meet the changing needs of our communities in a global society.
- **Stewardship** – We act with personal and institutional accountability for the responsible use of environmental, financial, and human resources to meet the needs of current students without compromising the needs of future generations of students.

**Core Themes/Promises** The areas of work that express essential elements of the mission and collectively encompass our role.
- **Academic Quality** – Quality programs, instruction, and support services are provided to students.
- **Access** – A broad range of educational opportunities and workforce training is provided to students in pursuit of their goals.
- **Community Collaborations** – Instruction, training, and workforce development are provided through collaboration with education partners, businesses, and community groups.
- **Student Success** – Students progress and complete their educational goals.
### Academic Calendar

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<th>Summer 2019</th>
<th>Fall 2019</th>
<th>Winter 2020</th>
<th>Spring 2020</th>
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<td>Intensive courses</td>
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<td>Five weeks</td>
<td>June 24–July 27</td>
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<td>Standard courses</td>
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<td>Eight weeks</td>
<td>June 24–Aug 17</td>
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<td>Specific courses</td>
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<td>Ten weeks</td>
<td>June 24–Aug 31</td>
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<td>Sept 23–Dec 7</td>
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<td>Jan 6–Mar 21</td>
<td>Mar 30–June 13</td>
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#### College-wide Inservice
(College closed to public)

- Sept 10

#### Employee Inservice

- Sept 9–20

### Student registration: Check registration status on My Chemeketa

#### Beginning of Term

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<td>June 24</td>
<td>June 24</td>
<td>June 24</td>
<td>Sept 23</td>
<td>Jan 6</td>
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#### Academic Year and other Holidays

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<td>July 4</td>
<td>July 4</td>
<td>July 4</td>
<td>Sept 2</td>
<td>Jan 20</td>
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<td>Nov 11</td>
<td>Feb 17</td>
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<td>Nov 28–29</td>
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<td>Dec 4 &amp; 25</td>
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<td>Dec 31 &amp; Jan 1</td>
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<td>May 25</td>
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#### College Closure

- Dec 23 & 30
- Feb 17

#### Summer Friday Closure

- Closed Fridays, July 5–Aug 30

#### Winter Break/Spring Break

- Dec. 9–Jan. 3
- Mar 23–27

#### Review & Final Exams

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<td>Dec 2–7</td>
<td>Mar 16–21</td>
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<td>June 8–13</td>
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#### End of Term

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<td>Aug 31</td>
<td>Dec 7</td>
<td>Mar 21</td>
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<td>June 13</td>
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### Graduation

- TBA

**Note:** Please check the term’s Schedule of Classes for registration information. Schedules are available in Advising and Counseling Services in Bldg. 2 or online at chemeketa.edu.
classes on subjects directly related to their full-time jobs in the community.

**History**

Chemeketa’s roots were established in 1955 when the local school district established Salem Technical Vocational School. The community college district was formed in September 1969. The college began operation on July 1, 1970.

As a public institution, most of the college’s financial support comes from local property taxes, state school support funds, tuition, and fees.

**Accreditation**

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

Accreditation by the Northwest Commission on Colleges and Universities is not partial, but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance of quality as described in this document. Accreditation also involves ongoing monitoring of quality and review of institutional performance.

**Teaching and Learning Values**

We are a college that–

- Creates a learning climate of mutual respect and fairness
- Encourages creative and critical thinking
- Engages participants in an active learning process
- Facilitates learning that applies to and enriches lives
- Encourages student responsibility for learning
- Promotes learning as a lifelong process

The Teaching and Learning Values are a shared responsibility at the college and are considered in decision- and policy-making arenas. We encourage and promote these values in college programs, courses, services, and activities.
## How to Enroll at Chemeketa

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<tr>
<td>Enrolling for most campus credit classes</td>
<td>Submit a free online admission application at go.chemeketa.edu/apply</td>
<td>View new student orientation in My Chemeketa.</td>
<td>Complete new placement assessment.</td>
<td>• To set up your student account go to <a href="https://login.chemeketa.edu">https://login.chemeketa.edu</a> and click “Claim my Account” • Activate your Chemeketa email account. • Check your registration status. • Register for classes</td>
<td></td>
</tr>
<tr>
<td>Enrolling for non-credit/Community Education classes</td>
<td>Submit a free online Admission Application at go.chemeketa.edu/apply. Select “For personal enrichment” for your “Primary Reason for Attendance” and under “earn degree/certificate/diploma choose the option for “non-credit classes only”.</td>
<td>None required.</td>
<td>None required.</td>
<td>None required.</td>
<td>• To set up your student account go to <a href="https://login.chemeketa.edu">https://login.chemeketa.edu</a> and click “Claim my Account” • Activate your Chemeketa email account. • Check your registration status. • Register for classes. • For assistance with registration for Community Education classes please call 503.399.4949.</td>
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<tr>
<td>Earning a GED (Options) If you are age 16–20</td>
<td>Enrollment applications available at the Office of High School Partnerships (HSP), Building 50, Rm. 102, South Salem Campus or Woodburn Center, Rm. 101A</td>
<td>Contact HSP at 503.399.5293, Salem or 503.589.7650, Woodburn</td>
<td>Contact HSP at 503.399.5293, Salem or 503.589.7650, Woodburn</td>
<td>Contact HSP at 503.399.5293, Salem or 503.589.7650, Woodburn</td>
<td>Contact HSP at 503.399.5293, Salem or 503.589.7650, Woodburn</td>
</tr>
<tr>
<td>Earning a high school diploma if you are age 16–20</td>
<td>Enrollment applications available at the Office of High School Partnerships (HSP), Building 50, Rm. 102, South Salem Campus or Woodburn Center, Rm. 101A</td>
<td>Contact HSP at 503.399.5293, Salem or 503.589.7650, Woodburn</td>
<td>Contact HSP at 503.399.5293, Salem or 503.589.7650, Woodburn</td>
<td>Contact HSP at 503.399.5293, Salem or 503.589.7650, Woodburn</td>
<td>Contact HSP at 503.399.5293, Salem or 503.589.7650, Woodburn</td>
</tr>
<tr>
<td>Earning a high school diploma equivalent (HEP) if you are age 16+ and have worked in Agriculture</td>
<td>Enrollment applications available at the Academic Development Office Building 22, Rm. 100, Salem Campus; or the college’s Dallas, Yamhill Valley or Woodburn locations.</td>
<td>Contact HEP at 503.589.7725, Salem</td>
<td>Contact HEP at 503.589.7725, Salem</td>
<td>Academic Advising available by appointment please contact the HEP at 503.589.7725</td>
<td>Students will work with staff to register, after completing the Orientation and Placement Testing.</td>
</tr>
<tr>
<td>Earning a high school diploma if you are 21 years or older</td>
<td>Submit a free online admissions application at go.chemeketa.edu/apply</td>
<td>Contact HSP at 503.399.5293, Salem</td>
<td>Take a placement test</td>
<td>Contact HSP at 503.399.5293, Salem</td>
<td>Contact HSP at 503.399.5293, Salem</td>
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<tr>
<td>Earning a GED If you are 18+</td>
<td>Enrollment applications available at the Academic Development Office Building 22, Rm. 100, Salem Campus; or the college’s Dallas, Yamhill Valley or Woodburn locations.</td>
<td>Students must attend a program orientation before registering for classes.</td>
<td>Students must complete placement testing before registering for classes.</td>
<td>Academic Advising available by appointment please contact the Academic Development office at 503.399.5224</td>
<td>Students will work with staff to register, after completing the Orientation and Placement Testing.</td>
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<td>Contact Academic Development office at 503.399.5224, Salem</td>
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<td>Taking English for Speakers of other Languages (ESOL)</td>
<td>Enrollment applications available at the Academic Development Office Building 22, Rm. 100, Salem Campus; or the college’s Dallas, Yamhill Valley or Woodburn locations.</td>
<td>Students must attend a program orientation before registering for classes.</td>
<td>Students must complete placement testing before registering for classes.</td>
<td>Academic Advising available by appointment please contact the Academic Development office at 503.399.5224</td>
<td>Students will work with staff to register, after completing the Orientation and Placement Testing.</td>
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<tr>
<td>Contact Academic Development office at 503.399.5224, Salem</td>
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<tr>
<td>GED en Español</td>
<td>Las solicitudes de inscripción están disponibles en la Oficina de Desarrollo Académico Edificio 22, Oficina. 100, Salem Campus; o las ubicaciones de Dallas, Yamhill Valley o Woodburn.</td>
<td>Los estudiantes deben asistir a una orientación antes de registrarse para las clases.</td>
<td>Los estudiantes deben completar pruebas antes de registrarse para las clases.</td>
<td>Asesoramiento académico esta disponible con cita previa, comuníquese con la oficina de Desarrollo académico al 503.399.5224</td>
<td>Los estudiantes trabajarán con el personal para registrarse, después de completar Orientación y las pruebas de Colocación.</td>
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<tr>
<td>Póngase en contacto con la oficina de Desarrollo Académico al 503.399.5224, Salem</td>
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assurance about the quality of opportunities available to students who attend the institution.

For more information on accreditation, contact the Accreditation Liaison Officer in Building 9 on the Salem Campus at 503.399.6145.

Location

The Chemeketa Community College district covers more than 2,600 square miles in Oregon’s Mid-Willamette Valley, including Marion, Polk, most of Yamhill, and part of Linn counties. The largest campus is located at 4000 Lancaster Drive NE in Salem, with an additional campus located at 288 Norton Lane NE in McMinnville. The College also has academic outreach centers in Polk County (Dallas) and Woodburn; and specialized centers at three other locations, which provide specialized education and training services to employers and the community: 1) Chemeketa’s Center for Business and Industry (CCBI), located at 626 High Street NE in Salem, provides training programs and resources to help create high-performing employees, managers and organizations. 2) Brooks Regional Training Center (Chemeketa Brooks), located at 4910 Brooklake Road NE, provides training for fire districts and law enforcement throughout the region, and is home to the College’s Criminal Justice, Law Enforcement, Fire Science and EMT/Paramedic programs. 3) The Northwest Wine Studies Center (Chemeketa Eola), located at 215 Doaks Ferry Road NW in Salem, provides instruction and hands-on training required for successful employment in the wine industry. Credit and non-credit classes, workshops, seminars, and special programs are also scheduled in more than 25 locations throughout the College district. These classes meet days, evenings and weekends; in schools, businesses, churches and homes.

Facilities

Chemeketa’s Salem Campus is comprised of two primary zones: north and south campus.

The main campus zone, comprised of Buildings in the 1–14 number series, contains many of the College’s administrative and academic support services, as well as the bulk of the college’s academic spaces. Building 2 is home to the college’s primary administrative functions, including: Academic Advising, Counseling Services, Enrollment Services, Financial Aid, Cashier’s Office, Tutoring Services Center, Student Center, Public Safety, Food Services and the Planetarium. Building 9 is home to the College’s library, equipped with a computer lab for support of research and study activities. It also houses a television studio and other facilities for multimedia production and communications. Building 6 houses the bulk of the College’s computer lab and training resources, as well as a 440-seat auditorium where conferences, lectures and performances are scheduled throughout the year. Building 8, often referred to as the Health and Science Complex, is equipped with specialized laboratories including a working dental hygiene clinic that serves the local community. Building 7, often referred to as the College’s Health and Wellness Center, is home to the Physical Education and Human Development Programs, the Chemeketa Storm Athletics Program, as well as a gymnasium, workout and weight rooms and other multi-use activity spaces.

Affirmative Action/Equal Opportunity

It is the policy of Chemeketa Community College that discrimination on the grounds of race, religion, color, sex, marital status, national origin, ethnic origin, citizenship status, age, sexual orientation, gender identity, disability, pregnancy and related conditions, family relationship, protected veterans status, tobacco usage during non-working hours, whistle blowing, victim of domestic violence or genetic information will not exist in any area, activity, or operation of the college as required by Title IX of the Educational Amendments of 1972; Section 504 of the Rehabilitation Act of 1973; Title VI and VII of the Civil Rights Act of 1964; the Age Discrimination Act; the Americans with Disabilities Act of 1990 and the Amendment of 2008; Oregon Civil Rights Law (ORS 659A); and their implementing regulations.
The North Campus Zone is located north of Satter Drive and is anchored by the Applied Technology Complex, which was completed in 2015. The complex is home to the College’s Engineering, Drafting, Machining, Welding and Apprenticeship programs. This zone is comprised of buildings in the 20 and 30 number series, and also includes facilities for Early Childhood Development, SOAR Program, faculty offices and classrooms.

The South Campus Zone is located on Winema Place near Lancaster, and is comprised of buildings in the 48–58 number series, which is home to the College’s High School Partnership programs as well as offices and partner facilities.

For more information about facilities on the Salem Campus, call 503.399.5008.

Admission and Registration

Enrolling at Chemeketa
503.399.5006; Fax 503.399.3918 admissions@chemeketa.edu

Chemeketa has an “open door” policy. In general, you may enroll in Chemeketa classes if you are 18 years of age or older and can benefit from the instruction.

If you are an international student, see page 9.

The table on page 5 lists the enrollment steps. Updated information is available each term in the Schedule of Classes.

Please contact Advising and Counseling Services in Building 2 on the Salem Campus at 503.399.5120 or at your local Chemeketa community location. Before enrolling talk with an advisor during an advising session about your academic and occupational plans and the requirements for the program which interests you.

If you have had a break in enrollment of longer than two years you must reapply for admission.

If you are younger than 18 and do not have a high school diploma or GED certificate, you should contact the High School Partnerships office for information about underage admission. See page 30.

Política de Acción Afirmativa

Es la política de Chemeketa Community College que no existirá ninguna discriminación o acoso a base de raza, religión, color de piel, sexo, estado civil, origen nacional, origen étnico, estado de ciudadanía, edad, orientación sexual, identidad de género, discapacidad, embarazo y condiciones relacionadas, estado familiar, estado de veterano protegido, el uso de tabaco durante horas no laborables, denunciar a la compañía, víctima de violencia doméstica, información genética, existirá en ninguna área, actividad u operación del colegio, así como requiere el Título IX de las Enmiendas Educativas de 1972; la Sección 504 del Acto de Rehabilitación de 1973; los Títulos VI y VII del Acto de Derechos Civiles de 1964; el Acto contra la Discriminación a Base de la Edad; el Acto a Favor de los Americanos con Discapacidades de 1990; la Ley de Oregon de Derechos Civiles (ORS 659); y sus regulaciones correspondientes.

Contra el Acosoamiento

La política del colegio también prohíbe el acoso a base de todos los factores mencionados arriba. El acoso se define por cualquier comportamiento o demostración inoportuna, sea verbal, físico o visual, el cual se conforma con cualquiera del siguiente criterio:

- se percibe razonablemente por el receptor como una conducta tan severa, penetrante y objetivamente ofensiva como para interferir con el trabajo o rendimiento académico de la persona.

- se refiere a formas ofensivas a la raza, religión, color de piel, sexo, estado civil, origen nacional, origen étnico, estado de ciudadanía, edad, orientación sexual, identidad de género, discapacidad, embarazo y condiciones relacionadas, estado familiar, estado de veterano protegido, el uso de tabaco durante horas no laborables; creando un ambiente educativo y de trabajo hostil o adverso; y/o somete a los empleados o estudiantes a términos diferentes o condiciones basadas en las características ya antes mencionadas.

Preguntas o quejas deben ser dirigidas a Alice Sprague, Oficial de Acción Afirmativa, P. O. Box 14007, Salem, Oregon 97309-7070, 503.399.5009.

Hostigamiento Sexual y Declaración de Mala Conducta Sexual

Chemeketa también está comprometida a prevenir el asalto sexual, violencia en el noviazgo, asalto doméstico y acecho. Además de contactar a la Oficina de Seguridad Pública y/o agentes locales de la ley, se anima a los estudiantes a ponerse en contacto con la coordinadora de título IX, Jon Mathis, 503.584.7323.
New Student Orientation  
503.399.5120 advising@chemeketa.edu  
Orientation is required for all new degree- or certificate-seeking students. View the new student orientation through My Chemeketa in the Advising page on the Services tab.

Placement Assessment  
503.399.5120 testing@chemeketa.edu  
go.chemeketa.edu/placement  
If you are a new student pursuing a degree or certificate, you will be required to take a free placement assessment. The purpose of the test is to determine your skill levels in reading, writing, and mathematics so you can select the classes that are right for you. Depending upon your scores on the reading or writing portion of the test you may be advised to retest. We will assist you in determining what test is best suited for you. Students who prepare in advance of taking the placement test have more accurate test results than students who take the test without preparation. Please visit the placement assessment website at chemeketa.edu for information about online test preparation, testing locations and other information. To request disability-related accommodations, please call 503.399.5192.

Academic Advising for New Students  
503.399.5120  
newstudentadvisor@chemeketa.edu  
Academic advising is required for all new, first-year, degree or certificate-seeking students until successful completion of 30 or more Chemeketa credits of 100 level or higher classes (excluding College Credit Now). New students are required to meet with an academic advisor. Schedule an appointment in My Chemeketa, Services, Advising.

Registration  
503.399.5001 registrar@chemeketa.edu  
For information, see “Steps to register” in the Schedule of Classes for step-by-step procedures for registering for classes. Chemeketa has a priority registration schedule based on earned Chemeketa credits. Log in to My Chemeketa each term and check your registration status for the specific day and time you are eligible to register for.

You will receive college credit only if you officially register for the class during the term in which it is offered.

You may not register if you owe the college money from previous terms, unless you make appropriate arrangements with Business Services on the Salem Campus. Please call 503.399.5011 for more information.

Class Loads  
503.399.5001  
If you enroll in 12 or more credit hours, you are considered full-time for academic purposes.

Class Changes  
503.399.5001 registrar@chemeketa.edu  
Registration and drop deadlines are dependent on the term session for which you are enrolled. Check the Schedule of Classes for general deadlines. Specific course deadlines can be found in My Chemeketa. It is recommended that changes be approved by an academic advisor or counselor. You may incur additional fees or charges when making registration changes.

Enrollment Limitations  
Even though Chemeketa has an open door policy, the college staff or faculty cannot guarantee that you will be admitted to a particular program. Enrollment in a class or program may be restricted because of accreditation requirements, limited staff, space, or equipment. Many career and technical education programs have special admission requirements before students can be admitted into the program.

Please apply early for all programs, especially for the career and technical education programs which limit enrollment or have special admission requirements (listed on pages 71–146). Many of Chemeketa’s career and technical education programs have established entry requirements that you must complete prior to starting the program. You may still be admitted to the college as a certificate or degree seeking student while you are completing entry requirements for a career and technical education program. If you have questions about the program requirements, contact the academic department directly.

Dual Enrollment Programs  
Chemeketa has partnered with four-year universities to provide dual enrollment and admission programs that ease the transition from community college to university. These programs offer students the opportunity to complete one application process for both Chemeketa and the University. We offer programs with Oregon State University, Oregon Tech, Portland State University and Western Oregon University. Once accepted to the program, other benefits include access to academic advising, library services, student housing, flexible scheduling for classes, free transcripts and coordinated financial aid for eligible students. More information is available at go.chemeketa.edu/dualenrollment.
Dropping or Withdrawing from Classes
503.399.5001
registrar@chemeketa.edu

Courses dropped by the deadline to receive a refund (generally the first two weeks of the term for full-term courses) will not result in a mark on your academic record. Your student account will be credited and you may receive a refund. Please see more information in the refunds policy section under Money Matters.

A “W” mark will appear on your student transcript for any class withdrawn after the refund deadline. Courses marked with a “W” are not reflected in grade point average (GPA) or total credits calculated. The last day to withdraw from classes without responsibility for a grade is typically at the end of the 6th week of each term for full-term courses.

Specific drop and withdrawal deadlines are listed in My Chemeketa under the course section details. Drop and withdrawal dates will vary for classes shorter than full-term.

If you decide to drop or withdraw from a course you should do so online using your My Chemeketa account. If you are unable to drop or withdraw due to a hold on your account, please resolve the issue with the department that has placed your hold, you may view your holds in the “Account Holds” section of My Chemeketa.

If you stop attending your class(es) without following the drop or withdrawal procedures mentioned above, you are responsible for tuition and fees and the final grades you receive.

No Show Drop If you cannot attend the first class session, you must contact your instructor. For online courses you must participate (login to the course) by Wednesday of the first week of term.

If you do not contact your instructor, you may be dropped. If the college drops you, you will be notified through your student email account. Note: This may affect your eligibility for tuition assistance if you are a veteran, on financial aid or are sponsored by an agency.

Immunizations
The Oregon Department of Health requires community college students born on or after January 1, 1957, to have two doses of measles vaccine before participating in clinical experiences in allied health and nursing programs, human services, practicum experiences in education and child care programs, and intercollegiate sports. If you are enrolling in the nursing programs and in some health programs, you may also be required to be vaccinated for Hepatitis B prior to entering any clinical experiences. For details about these requirements, contact the office of the associate dean who oversees the program in which you plan to participate.

International Students
1.503.365.4686; Fax 1.503.365.4768
internationaladmissions@chemeketa.edu

Each year about 120 international students attend Chemeketa. Representing a variety of cultures and ethnicities, they come from more than 40 different countries. International students may enroll in any career and technical program or college transfer program we offer. Many students receive English language training through the Chemeketa Language and Culture Institute before they enter college level programs.

Through International Programs, Chemeketa offers an outstanding range of services and activities to help international students get started and succeed. Some of these services include: an orientation program, conversation tables, advising, career development and volunteer opportunities, housing assistance, writing center, academic tutoring, leadership training, educational excursions, and clubs.

If you are a citizen of another country, you may enter the college at the start of any term. Chemeketa has special application materials and deadlines for international students available by mail or on the college Web site.
Please apply as early as possible so you can get assistance in understanding the United States Citizenship and Immigration Service (USCIS) and college requirements for admissions.

US government regulations require that all full-time international students on an F-1 Visa have proof that you have the financial ability to pay for the length of your program. You will also need a health insurance plan that meets specific requirements. Do not purchase another medical insurance plans. Chemeketa has chosen a high quality, reasonably priced insurance policy that meets the requirements.

Chemeketa provides a world of learning for all its students. You are invited to join others and experience Chemeketa. For more information, please contact International Programs at the phone or email address listed above.

## Money Matters
503.399.5011 businessservices@chemeketa.edu

### Payment Information

Tuition and fees are charged to your student account when you register and payment is due before the first day of the term (to avoid a late fee). The college offers multiple payment options for tuition and fee charges including credit card, cash, check and automated payment plans. Please refer to the current term Schedule of Classes or to the college website at go.chemeketa.edu/paytuition for additional information.

### Late Payment Fees

Late payment fees are assessed beginning the first day of each term and periodically throughout the term. See the term late fee schedule published in the current term Schedule of Classes or on the college website at go.chemeketa.edu/paytuition

### Failure to Pay

A past due account may result in denial of future college services including registration, withholding of transcripts, denial of future credit, impairment of credit history, and additional assessment of collection charges and attorney fees.

By registering for any class at Chemeketa you acknowledge that tuition, fees, and other applicable charges incurred will be considered an educational loan between yourself and Chemeketa Community College that is non-dischargeable under Section 523(a)(8) of the U.S. Bankruptcy Code. You further agree that, if you fail to make any payments as prescribed above, your student account may be submitted to a collection agency and applicable collection charges may be added to your account balance due. In case legal action is instituted to collect on your account, you agree to pay, in addition to the costs and disbursements provided by law, such additional sums as a court of law may determine as reasonable for attorney's fees and court costs. Oregon state law applies to any dispute over payment and charges due.

### Tuition and Fees

#### Credit Courses

The following chart will help you in determining the cost per credit including tuition and universal fee. Other course specific fees may apply. Be sure to check the tuition & fee column next to the specific course in the schedule or online.

<table>
<thead>
<tr>
<th># of credits</th>
<th>Oregon Resident Students</th>
<th>Out of State &amp; International Students</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tuition</td>
<td>Universal Fee</td>
</tr>
<tr>
<td>1</td>
<td>$91</td>
<td>$24</td>
</tr>
<tr>
<td>2</td>
<td>$182</td>
<td>$48</td>
</tr>
<tr>
<td>3</td>
<td>$273</td>
<td>$72</td>
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<tr>
<td>4</td>
<td>$364</td>
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<tr>
<td>5</td>
<td>$455</td>
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<td>$546</td>
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<td>$408</td>
</tr>
<tr>
<td>18</td>
<td>$1,638</td>
<td>$432</td>
</tr>
</tbody>
</table>

Differential Fees: Effective Fall 2019 certain science and CTE program courses will be assessed a differential fee. The differential fee rate will be determined based on funding allocated by the State of Oregon to community colleges. The rate will be $5 or $10 per credit.

* Out of State and International Tuition total of $256 per credit is comprised of the base tuition of $91 per credit plus the out of state/international rate of $165 per credit.

**NOTE:** International students attending on an F1 visa will be charged a non-refundable service fee of $256 per term. International students attending on other visa types will be charged a non-refundable service fee of $75 per term.
Non-credit Courses
Non-credit courses do not use the tuition rates established by the Board of Education and may vary from program to program. Non-credit courses are offered through a variety of programs and departments including Community Education, Adult Basic Education (ABE), General Educational Development (GED), and English for Speakers of Other Languages (ESOL). Refer to the current term Schedule of Classes to identify the cost for these courses and other program specific costs.

Universal Fee
A Universal Fee applies to both credit and non-credit classes. The fee is $18 per credit for credit classes and 40 cents per hour for non-credit classes.

Differential Fees
Certain Career Technical Education (CTE) programs and science courses will have a differential fee applied beginning fall term 2019. Selected CTE programs will have a differential fee applied to all core classes in that program. Science classes that have a lab component will also have a differential fee. The differential fee will be $10 per credit hour. Please check the Tuition & Fees page on the Chemeketa website for a full list of programs and courses that will have the differential fees.

Online Fees
A $50 fee is charged for each online course in addition to tuition and any applicable course fees.

Residency for Tuition Purposes
Residency for tuition purposes is determined at the time of admission to Chemeketa. You are considered an Oregon student if you have established a permanent residence within the state at least 90 days prior to the term you enroll. Distance education students (taking only online courses) who reside within the United States or U.S. Territories are considered as in-state residents for tuition purposes. Veterans may be considered as a resident for tuition purposes, contact Veterans Services for more information. The college may ask you to provide information proving you meet the residency requirement.

You are considered an out-of-state student if your permanent address is outside of Oregon. You are an international student if you are required to have an I-20 immigration document or are a student under a B, F, H or J visa. International students are not considered for permanent residence.

In order to be considered for a change in residency status, you must request an address update and “Application to Change Residence” form and supply documentation to show residency. Changes to residency status will be applied to the current or future terms only.

Contact Enrollment Services at 503.399.5001 for more information.

Veterans’ Benefits Improvement Act of 2016
In accordance with Title 38, U.S.C., Section 3679(c), Chemeketa Community College will charge no active duty military member, Veteran, or eligible dependent who is receiving VA funding tuition and fees at a rate greater than that charged a resident student.

Refund Policy—How Our Refunds Work
If the college cancels a class or you drop a class by the refund deadline, (for full-term classes that meet for the entire term) this is generally the Friday of the second week of the term, the full cost of the class will be credited to your student account and refunded in the order listed below.

Less than full-term classes have a shorter refund period. Review the specific course drop deadlines on-line in the searchable class schedule.

You will not receive a refund or credit toward another class for any classes dropped after the end of the refund period.

Refund credits from dropped courses will first apply to any outstanding amounts due on your student account. Refunds are processed beginning the third week of each term and are credited back to the original source of payment as follows:

- For classes paid by credit card - refunds are credited back to the credit card
- For classes paid by check or through the automated payment plan (NelNet) - refunds are issued as a check or direct deposit
- For classes paid by third party or agency payments - refunds are issued to the original payor
- For classes paid by financial aid resources - credits will be reviewed by the Financial Aid department and may be applied to offset financial aid resources. Any remaining refund authorized by Financial Aid will be issued as a refund check or direct deposit.

Refunds are not issued for amounts under $5.

Changes in the number of hours for which you are registered may affect your financial aid, agency or veteran's benefits.
Other Costs and Fees
503.399.5011 businessservices@chemeketa.edu

The cost of books and supplies for full-time students is about $500 per term. In some of Chemeketa’s programs, you will also have to provide your own tools, equipment, and uniforms. These costs are included in the descriptions of career and technical education programs on pages 71–146.

Fees also vary by the course; this information is included in the course descriptions in this catalog.

The physical education locker and towel fee in Building 7 of the Salem Campus is $15 per term if you are not enrolled in a PE class; otherwise, it is free for you to use during the term of that class.

Veterans’ Services—Educational Benefits
503.399.5004
veterans@chemeketa.edu

Our Veterans’ Services Office in Building 2 on the Salem Campus provides information and assistance to Veterans and eligible dependents on how to apply for, receive, and maintain eligibility for all VA educational programs.

Our staff in the Veterans’ Services Office will assist you in requesting an initial determination of eligibility for VA educational benefits and electronically submit your benefit request each term. Courses you receive benefits for must be required for your stated Chemeketa degree or program as outlined in the college’s academic catalog. We monitor class registration, changes in enrollment status, applicability of classes taken toward degree completion and your grades. We will notify VA of any changes that impact benefit payment status and amounts. Students using any type of Federal Veterans Administration (VA) Education Benefit, including Vocational Rehabilitation and Employment, are required to have all prior college credit evaluated. This includes evaluation of the student’s official military training transcript if applicable. Transcripts will be evaluated and credit given where possible to meet the requirements of the student’s Chemeketa degree or program. It is the student’s responsibility to request official transcripts from all previous colleges and universities attended and submit them to the Chemeketa Admission’s office. This includes schools attended where VA benefits were not received. Students must also complete and submit a Request for Evaluation and Transfer of Previous Credit. Students receiving VA educational benefits may receive benefits for a maximum of two terms while waiting for their transcript evaluation to be completed. The student’s prior credit evaluation must be complete before subsequent terms are certified for VA benefits.

How to Stay Eligible

To continue to receive VA educational benefits, you are required to complete and pass all classes you receive benefits for and maintain a 2.00 grade point average (GPA).

Additional Information

Your monthly benefit payment is based on the VA educational program you are using and the number of credits you register for each term. You may be required to repay some or all of the the GI Bill benefits you have received if you withdraw from a class after the term begins. Questions on these policies can be directed to the Veterans’ Services staff.

Financial Aid
503.399.5018 financialaid@chemeketa.edu

Financial aid in the form of scholarships, grants, loans and employment is available to eligible students who need assistance to attend school. Information on financial aid programs can be found in this publication, on the Chemeketa Financial Aid Office website and at the Financial Aid Office on the Salem Campus, Building 2, Room 200.

Are You Eligible?

To qualify for federal financial aid, you must:

• Be a United States citizen or an eligible non-citizen

Questions? Call for information.
503.399.5000

Salem Campus Information Center

Chemeketa’s Information Center is located in Advising and Counseling on the first floor of Building 2 on the Salem Campus. Staff can answer your questions about room locations, activities, workshops, meetings, and instructional staff office locations. The Information Center also distributes class schedules and catalogs.

Other Locations:

• Brooks Area • 503.485.2131
• Center for Business and Industry (CCBI) 503.399.5181
• Chemeketa Online • 503.399.7873
• Polk Area • 503.623.5567 or 503.399.5206
• High School Partnerships • 503.399.5293
• Community Education • 503.399.4949
• Woodburn Area • 503.981.8820 or 503.399.5207
• Yamhill Valley Area • 503.472.9482 or 503.399.5219
• Have a high school diploma, a GED certificate or have completed a home school program at the secondary level
• Be registered with the Selective Service, if required
• Be admitted and enrolled in coursework towards an eligible certificate or degree
• Not be in default on a federal student loan or owe a repayment of federal financial aid of any type
• Maintain Satisfactory Academic Progress

To qualify for financial aid from the state of Oregon, you must meet all the criteria above, except some Oregon-based financial aid programs are open to non-citizens who are residents of Oregon. Students ineligible for federal aid, but potentially eligible for Oregon-based financial aid, should apply for financial aid using the Oregon Student Aid Application (ORSAA).

How and when to apply?
You should complete the Free Application for Federal Student Aid (FAFSA) at www.fafsa.gov as soon as possible each year after October 1. If you are ineligible for federal financial aid, but are a resident of Oregon, you can complete the Oregon Student Aid Application (ORSAA) at https://oregonstudentaid.gov/ as soon as possible each year after October 1. Applications can be filed later in the year, but some funding is limited and may be exhausted. You should file your FAFSA or ORSAA no later than three months prior to the term in which you plan to start receiving financial aid. Specific recommended timelines are posted to the financial aid website annually. If you apply less than three months prior to the term, you should be prepared to pay for your tuition, fees and books with your own money while your financial aid application is processed.

Once Chemeketa receives your FAFSA record, we will post any necessary requirements in the financial aid section of MyChemeketa and email you at your Chemeketa email address to notify you of receipt of your FAFSA and to check your financial aid requirements in MyChemeketa. You must submit all requirements before a financial aid offer can be made to you. Once all requirements have been submitted, your file reviewed and a financial aid offer generated, we will email you at your Chemeketa email address with instructions on how to review and accept or decline each type of financial aid.

What type of financial aid is available?
Financial aid is money offered to students to help you pay for tuition, fees, books, supplies, rent, food, transportation and personal expenses related to attending school in an eligible degree or certificate program at Chemeketa Community College. There are four types of financial aid programs available: grants, loans, work-study and scholarships. These funds come from various sources. Program details, including eligibility criteria and dollar amounts, may differ from the following descriptions if applicable laws or regulations governing the programs change after publication of this material.
Grants

Grants are mostly awarded on the basis of financial need. Grants do not have to be repaid after leaving school. Student financial aid offers include grant funds whenever student eligibility and funding levels permit. Funding for the grant programs administered at Chemeketa come from the US Department of Education and the state of Oregon.

Federal Pell Grant

The Federal Pell Grant program offers awards from $0–$2,065 per term depending on your level of financial need demonstrated on the FAFSA. The Pell Grant is the first type of federal financial aid awarded to eligible students with other aid awarded after consideration of Pell Grant eligibility. Students who have already earned a Bachelor’s Degree are ineligible for Federal Pell Grant. There is a lifetime limit of the equivalent of 18 full-time quarters of Pell Grant. You apply for the Pell Grant each year by completing a new FAFSA.

Federal Supplemental Education Opportunity Grant (SEOG)

SEOG awards are federally funded and are offered to students with exceptional financial need. Students who receive a Federal Pell Grant are the first group of students considered for SEOG. SEOG awards range up to $900 per year. You apply for SEOG each year by completing a new FAFSA.

Oregon Opportunity Grant

The Oregon Opportunity Grant offers awards of up to $900 per term to residents of Oregon who demonstrate financial need as determined annually by the Oregon Office of Student Access and Completion (OSAC). You must have lived in Oregon for at least one year and be enrolled at least half-time (six credits). Funding for this program is available during fall, winter and spring terms; there is no funding for summer term. Students who have already earned a Bachelor’s Degree are ineligible for Oregon Opportunity Grant. There is a lifetime limit of the equivalent of 12 full-time quarters for the Oregon Opportunity Grant. You apply for the Oregon Opportunity Grant each year by completing a new FAFSA if you are eligible for federal aid. Residents of Oregon who are ineligible for federal aid may apply for the Oregon Opportunity Grant by completing the ORSAA.

Oregon Promise Grant

The Oregon Promise Grant provides grant funding to eligible students who enter college within 6 months after completing a high school diploma or GED. A separate application for the Oregon Promise Grant is required and available at https://oregonstudentaid.gov. Grants ranged from $116–$994 per term at Chemeketa for the 2018–19 award year. You must have lived in Oregon for at least one year and be enrolled at least half-time (six credits). Funding for this program is available during fall, winter and spring terms; there is no funding for summer term. You apply for the Oregon Promise Grant each year by completing a new FAFSA.
Promise Grant by completing the application and either the FAFSA or ORSAA, as appropriate. Eligibility for funding under this program ends once you have attempted 90 or more college credits, from any source, at any time (including credits earned in high school). This program may have an eligibility cutoff based on Expected Family Contribution (EFC) due to funding levels. Visit https://oregonstudentaid.gov for the most current eligibility criteria.

**Loans**

**Federal Direct Student Loan Program (Subsidized & Unsubsidized Loans)**

To be eligible for any student loan, you must be enrolled at least half-time (six or more credits). Prior to disbursement of a student loan, you must complete Entrance Loan Counseling from the US Department of Education at https://studentloans.gov. Additionally, you must complete a valid Master Promissory Note (MPN) with the US Department of Education online at https://studentloans.gov. The MPN serves as your legal agreement that you understand you have accepted loan funds and you agree to repay them. The MPN contains detailed information about the terms and conditions of the loan and your rights and responsibilities as a borrower.

You may be offered student loans to help cover your educational costs. You are encouraged to borrow the least amount of money possible to fund your education. To qualify for any student loans, you must file a valid FAFSA each year. The amount of loan funding you are eligible for depends on factors such as your enrollment level, cost of attendance, number of credits completed and dependency status on the FAFSA. The chart below lists the maximum loan amounts offered per year; not all students are eligible for the maximum amounts. The college determines the amount of your student loan offer based on eligibility rules. The college maintains the right to refuse to create or to limit the amount of student loan available to any student on a case-by-case basis.

There are aggregate limits on the student loan programs. Students may not borrow more than:

- $31,000 for dependent students, of which no more than $23,000 may be in subsidized loan
- $57,500 for independent students, of which no more than $23,000 may be in subsidized loan

Interest rates on student loans are fixed for the life of the loan. Interest rates are reset annually on July 1 for loans first disbursed after that date. The interest rate on student loans for undergraduate students for loans first disbursed from July 1, 2019–June 20, 2020 is 4.53%. For the most current rates, visit studentaid.ed.gov.

Student loans have an origination fee withheld from the proceeds of the loan. Loan fees are changed each October 1. The origination fee for student loans first disbursed from October 1, 2019–September 30, 2020 is 1.059%. For the most current fees, visit studentaid.ed.gov.

Students borrowing their first student loan will have the proceeds of the loan delayed until 30 days of the term has passed. Students borrowing a loan for one-term only will receive ½ of the proceeds at the time of first disbursement and the second ½ of the loan once the midpoint of the term has passed.

<table>
<thead>
<tr>
<th>Credits Completed</th>
<th>Dependent Students on FAFSA</th>
<th>Independent Students on FAFSA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Maximum Subsidized Loan</td>
<td>Additional Unsubsidized Loan</td>
</tr>
<tr>
<td>0–35</td>
<td>$3,500</td>
<td>$2,000</td>
</tr>
<tr>
<td>36+</td>
<td>$4,500</td>
<td>$2,000</td>
</tr>
</tbody>
</table>

**About this catalog**

Chemeketa publishes this catalog to give you—our students and public—current information about the college.

We make every effort to be sure that this information is accurate at the time of publication, however, sometimes the college finds it necessary to make changes before the next catalog is printed. These changes may affect the costs, college policies and procedures, the calendar, and some curricula and courses. Therefore, we do not consider the catalog as a hard and fast contract between you and the college; rather, we are trying to give as much relevant information as possible to those who may use our services.

The most current information on Chemeketa’s programs and services can always be found on the college’s web site: www.chemeketa.edu.
Loan repayment on Federal Direct Student Loans begins six months after the student ceases to be enrolled at least half-time (six credits). Online exit loan counseling must be completed at studentloans.gov at the time the student ceases to be enrolled at least half-time.

**Federal Direct Subsidized Loan**

Students must demonstrate financial need to qualify for the Federal Direct Subsidized Loan. The Federal Direct Subsidized Loan has the interest paid (subsidized) by the US Government while the student is in school at least half-time and during times of deferment and grace period. Students borrowing the Federal Direct Subsidized Loan must complete their program of study within 150% of the normal timeframe for completion measured in months and years. For example, a student working towards an Associate of Arts Oregon Transfer Degree (two year degree) must finish the program before completing three years of enrollment to continue eligibility for subsidized Stafford loans. Students who do not complete their program of study within 150% of the normal timeframe will be ineligible for additional Federal Direct Subsidized Loans and will lose the subsidy on their existing loans.

**Federal Direct Unsubsidized Loan**

Federal Direct Unsubsidized Loans are available to students who do not qualify, in whole or in part, for the Federal Direct Subsidized Loan. Student borrowers are responsible for the interest on these loans which begins to accrue on the date of disbursement. Interest that is not paid while the student is in school or during the grace period will be capitalized (added to the principal balance of the loan) when repayment begins.

**Federal Direct PLUS Loan**

The Federal Direct PLUS Loan is a loan option for parents of dependent students. Loan amounts are limited to the cost of attendance minus any estimated financial assistance the student will receive. Parents interested in applying for the Federal Direct PLUS Loan must apply for the loan at studentloans.gov. The loan requires a credit check and is not available to borrowers with an adverse credit history. Current interest rates and fees for the Federal Direct PLUS Loan can be found at studentaid.ed.gov. Repayment of Federal Direct PLUS Loans begins 60 days after the final disbursement of the loan.

**Alternative Student Loans**

Privately funded student loans from a bank or a credit union are not based on financial need and no federal formula is applied to determine eligibility. However, the amount borrowed cannot exceed the cost of attendance minus other estimated financial aid. Interest rates, fees and repayment terms vary widely but are generally less favorable than Federal Direct Student Loans. Alternative student loans can be used to supplement the federal financial aid programs when the cost of education minus federal financial aid still leaves unmet costs. Students interested in applying for an alternative student loan would do so directly with a bank or credit union.

**Work**

**Federal Work-Study Program**

The Federal Work-Study Program provides part-time job opportunities on-campus for students with financial need. The amount a student may earn is determined by college policy and fund availability. Students earn an hourly wage based on the type of work, their skills and their experience. Students may work a maximum of 20 hours per week while school is in session. Federal Work-Study funds typically range up to $1,200 per term at Chemeketa. Eligible students are selected for Federal Work-Study based on their answer to the Federal Work-Study screening question on the FAFSA, financial need and timing of application. Students interested in Federal Work-Study who did not receive that funding type in their financial aid offer may contact the Financial Aid Office to be placed on a waiting list should additional funds become available. There is no guarantee that students offered Federal Work-Study will find a job placement or earn the full amount of their Federal Work-Study allocation.

**Part-Time Employment**

Chemeketa may have job opportunities available to students enrolled half-time (6 credits) or more regardless of Federal Work-Study eligibility. Pay varies based on the type of work, employee’s skills and experience. No FAFSA is required. Contact Chemeketa Human Resources for more information.

The Chemeketa Career Center maintains listings of job opportunities in the community for interested students. Pay varies depending on the employer, type of work, employee’s skills and experience. No FAFSA is required. Contact the Chemeketa Career Center for more information.

**Foundation Scholarships**

503.365.4747
foundation@chemeketa.edu

If money is standing between you and your Chemeketa education, the college’s foundation has scholarships and assistance funds available. The Chemeketa Community College Foundation administers over 150 different scholarship and assistance funds for Chemeketa students. The foundation’s universal online scholarship application simplifies the application process and is open each year February 1 through March 31 for the
following academic year. Assistance funds are available upon request. More information can be found at the foundation website at foundation.chemeketa.edu.

**Chemeketa Scholars**

Chemeketa Scholars is a tuition scholarship for recent high achieving high school graduates or home schooled students. The scholarship covers the cost of tuition at Chemeketa for up to two years. Please visit scholars.chemeketa.edu for information about eligibility requirements, application process, and other important information.

**How to Maintain Financial Aid Eligibility**

To maintain eligibility for financial aid, a student must meet Satisfactory Academic Progress (SAP) standards. Federal regulations (34 CFR 668.34) require a student to move toward the completion of a degree or certificate within an eligible program when receiving financial aid. Specific requirements for academic progress for financial aid recipients are applied differently than college Academic Standards (Warning, Probation, and Denied). Federal regulations state that Satisfactory Academic Progress Standards must include a review of all periods of enrollment, regardless of whether or not aid was received. The student must meet all the minimum standards in order to receive financial aid.

I. Evaluation of financial aid eligibility

- Standards of Satisfactory Academic Progress (SAP) are applied at the end of every term to determine eligibility for the following academic term. SAP standards are calculated using the cumulative GPA and cumulative completion rate. Students must maintain an overall GPA of 2.0 or higher and a completion rate of 67% or more.
- Students in good standing will be placed on financial aid warning if they have not met the standards of satisfactory academic progress. Students on warning will need to meet the cumulative 2.0 GPA requirement and complete all classes during the following term to retain their aid eligibility.
- Students on financial aid warning will need to have a cumulative 2.0 GPA and an overall completion rate of 67% the following term or they will be placed into denied status. Students on denied may need to attach an Academic Plan which is signed off on by an advisor or counselor to the Academic Progress Appeal. If an appeal is granted the student will be placed on probation for the following term.
- Students who use financial aid and either officially withdraw or do not complete any credits will automatically be placed on Denied status and are ineligible for further financial aid. Students will need to raise their GPA and/or completion rate to meet the minimum SAP requirements to regain financial aid eligibility or appeal their financial aid denied status, if applicable.
  - The evaluation period will be based on attendance in all prior term(s) including transfer credits and will include all classes attempted whether federal aid was received or not. SAP will be reviewed after each term. The student’s cumulative GPA and completion ratio must meet the minimum standards or the student will be placed on warning, if appropriate, or denied.
  - Credits evaluated will include credits attempted at CCC, transfer credits accepted by CCC, and courses funded through consortium agreement.
  - Students on probation and following an approved appeal plan will be evaluated according to the agreed upon terms of the appeal.
  - Students who do not meet the Standards of Satisfactory Academic Progress will be notified via My Chemeketa email and their status will be available on My Chemeketa under their financial aid tab.
  - Students may follow the appeal process or the reinstatement procedures as outlined in V and VI. Students will not have eligibility for any further federal aid at Chemeketa until they have met Standards of Satisfactory Academic Progress or have been granted an appeal approval.

II. Eligibility

Students must meet the following criteria:

1. Students must complete 67% of all credits attempted with a passing grade
2. Students must maintain a cumulative 2.0 GPA
3. Students must complete their program of study within a 150% timeframe of their degree or eligible certificate program. For example, if a program is 90 credit hours the student must complete all required coursework within 135 hours. This includes repeated grades and college preparatory coursework.

**Note:** Grades of F, I, NP, X and courses not yet graded are considered attempted but not meeting progress standards for the purposes of financial aid.

III. Maximum timeframe eligibility

- Students who have attempted more than 150% of the credits required for their program of study are not considered to be making Satisfactory Academic Progress and therefore, are ineligible for financial aid funds.
• Students seeking second degrees and students with double majors are monitored like any other students under this policy. If or when the student exceeds the maximum timeframe allowed for their respective programs, students may appeal if they have mitigating circumstances. All transfer hours accepted by Chemeketa will be included when determining maximum timeframe eligibility.
• A student may file a Maximum Credit Hour Appeal. The Financial Aid Office will make a decision regarding approval or denial of the appeal.
• In most cases a student with a Bachelor’s degree or higher will be considered to have exhausted maximum timeframe eligibility. These will be looked at on a case-by-case basis in order for a decision to be made regarding financial aid eligibility. All Chemeketa credits and all transfer credits will be counted.

IV. Repeated, audited, consortium, remedial courses, enrollment
• Financial aid eligibility will include repeating a course if the student earned prior credit for the course with a grade of a “D” or “F”. Any class can be repeated and paid for two times only. All classes taken must be counted as attempted classes.
• Audited courses, continuing education, credit by examination, and any credit for prior learning option (as outlined in the catalog) are excluded when determining eligibility for financial aid.
• Courses funded through a consortium agreement are included in determining academic progress.
• All attempted remedial credits will be included when evaluating SAP. (A maximum of 45 remedial credit hours may be funded.)
• Enrollment in any part of term will be considered in the respective summer, fall, winter, or spring term for SAP.

V. Appeal process
A student who has lost financial aid eligibility due to extenuating circumstances may file an Academic Progress Appeal.
• Extenuating circumstances that may be considered include: personal illness or accident, serious illness or death within immediate family, or other circumstances beyond the reasonable control of the student.
• All appeals must be in writing to the Financial Aid Office and must include appropriate documentation.
• Examples of documentation that could be included: an obituary notice, divorce decree, or a letter from a physician, attorney, social services agency, employer, etc. Letters from friends and family members do not meet the standards for appropriate documentation.
• The condition or situation must be resolved, the resolution of which will allow the student the ability to complete course work successfully. If the condition or situation is not resolved; an appeal will not be granted.
• The outcome of an appeal may include a denial or probationary period.
• Students will be notified via My Chemeketa of the results of the appeal, and of any restrictions or conditions pertaining to their appeal.

The decision on the Academic Progress Appeal is final and there are no additional appeals. If the decision is to uphold the denial, the student may not submit any subsequent requests for funding consideration. In order to regain eligibility for financial aid, the student would need to meet Satisfactory Academic Progress Standards or meet specific criteria outlined in the appeal response. Students who do not meet the terms of financial aid probation may permanently lose eligibility for federal student aid at Chemeketa Community College.

VI. Reinstatement of financial aid eligibility
• A student who has lost financial aid eligibility may be reinstated after the student has taken classes to meet the minimum requirements of a 2.0 GPA and a cumulative completion rate of 67% of all credit hours being evaluated or was approved on appeal.
• A Student must be able to complete their degree or certificate within the 150% timeframe.
• It is the student's responsibility to notify the Financial Aid Office when this condition has been met.
• Students who exhaust the 150% timeframe and have exhausted their appeal cannot be reinstated financial aid at Chemeketa Community College.

What happens if I withdraw from classes or receive all F grades after receiving financial aid?
As a result of the Higher Education Act amendments of 1998, a student who completely withdraws from classes, receives all F’s or a combination of both during the term may be required to repay a percentage of the Title IV financial aid funds received.

The federal regulations assume that students “earn” their financial aid over the course of a term by attending and participating in classes. A student cannot “earn” all of their financial aid unless they attend and/or academically participate in more than 60% of the term. This calculation counts all calendar days, including the
first and last day of each term, weekends and holidays. A student who completes more than 60% of the term has earned all of their financial aid assistance. If a student withdraws or stops attending before 60% of the term, they have not “earned” all of their financial aid funds. Federal regulations require the college to perform a Return to Title IV (R2T4) calculation to determine the amount of any unearned aid the student received that must be returned to the federal programs.

EXAMPLE: A student who withdraws completing 30% of the term will have “earned” only 30% of the Title IV financial aid, the remaining 70% must be returned.

Students who fail to receive a passing grade in any class are considered unofficially withdrawn and the midpoint (50%) of the term is used to determine the amount of funding that must be repaid.

The Financial Aid Office will review official records periodically throughout the term and at the end of each term for student withdrawals. The college returns funds to financial aid programs received in the following order:

- Unsubsidized Federal Direct Student Loan*
- Subsidized Federal Direct Student Loan*
- Federal Direct PLUS Loan*
- Federal Pell Grant**
- Federal Supplemental Educational Opportunity Grant (SEOG)**
- Other Title IV Funds**
  * Federal loans are repaid under the terms and conditions of the Master Promissory Note (MPN).
  ** Amounts to be returned by the student to federal grant programs will be reduced by 50% of the total grant aid disbursed.

The student will be mailed a written copy of the withdrawal calculations, showing the amount of unearned aid the school will refund from institutional costs and the amount the student must pay. The student has 45 days from the date of the bill to pay the amount shown in full, or to make arrangements with the Financial Aid Office for a payment plan. If the amount is not paid, or if arrangements are made for a payment plan, but payments are not made as scheduled, the balance will be turned over to the U.S. Department of Education for collections.

** Tuition Waiver for 65+ Eligibility **

- Students must be Oregon residents; and
- Students must be 65 years old or older at the beginning of the term in which the course is offered; and
- Space must be available in the course as determined by the instructor and the department; and
- The course must be a lower-division collegiate course 100 or 200 level (e.g. ART 101, SPN 111, WR227, etc.); and
- The course prerequisites must be satisfied prior to enrollment; and
- The maximum costs to be covered by an approved tuition waiver each term is the cost of 8 credits. All course fees are to be paid by the student.

** Academic Information **

** Student Records and Transcripts **

503.399.5001 registrar@chemeketa.edu

Student academic records are maintained in Enrollment Services. These records may include admission applications, transfer credit evaluations, curriculum substitutions, degree evaluations and your academic transcript.

You may view your unofficial transcript or order an official transcript through your My Chemeketa account. If you owe a financial obligation to the college, your official transcript will be withheld until the debt is paid in full.

In order to help us keep your records updated, please notify Enrollment Services of any changes to your information.

** Definitions **

** Class**—See course.

** Course**—A course is a subject or an instructional subdivision of a subject, usually offered during a single term.

** Credit Hour**—The number of credit hours granted for each course varies. In general, a student earns one credit for a lecture class that meets one hour per week per term, or three credits for a lecture class that meets three hours per week.

Courses with labs and some other courses may vary from this pattern.

The Course Description section of this catalog lists the value of each course in credit hours.

** Curriculum**—An organized program of study arranged to provide integrated cultural or professional education leading to a certificate or degree.

** Elective**—A required, non-specific course.

** Sequence**—Closely related courses extending through three terms.

** Term**—Approximately one quarter of the academic year. Fall, winter and spring terms range in length from 11 to 12 weeks. Summer term runs for eight weeks.
Social Security Number Disclosure Statement
The college will use student social security numbers (SSN) for keeping records, complying with federal and state requirements, doing research, reporting, extending credit and collecting debts. You may be required to provide your SSN to the college for compliance with specific federal and state regulations such as applying for financial aid, loans, grant programs and tax reporting requirements. Providing your SSN means that you consent to the use of the number in the manner described. Your SSN will not be given to the general public. You will be issued a Chemeketa student identification (ID) number (K#) to be used as your primary ID.

Please note that per OAR 589-004-0400, if you choose not to provide your SSN, you will not be denied any rights as a student.

Family Educational Rights and Privacy Act (FERPA) Notice
503.399.5001 registrar@chemeketa.edu
The Family Educational Rights and Privacy Act (FERPA) afford eligible students certain rights with respect to their education records. (An "eligible student" under FERPA is a student who is 18 years of age or older or who attends a postsecondary institution.) These rights include:

1. The right to inspect and review the student’s education records within 45 days after the day the college receives a request for access. Students should submit written requests to the Registrar’s Office that identifies the record(s) the student wishes to inspect. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the requested records are not maintained by the Registrar’s Office, the student will be notified of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student’s education records that the student believes is inaccurate, misleading, or otherwise in violation of the student’s privacy rights under FERPA. Students who wish to ask the school to amend a record should write the school official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed. If the college decides not to amend the record as requested, the college will notify the student in writing of the decision and the student’s right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to provide written consent before the college discloses personally identifiable information (PII) from the student’s education records, except to the extent that FERPA authorizes disclosure without consent. The school discloses education records without a student’s prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the college in an administrative, supervisory, academic, research, or support staff position; members of the Threat Assessment Team; a person serving on the Board of Education; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official also may include a volunteer or contractor outside of the college who performs an institutional service or function for which the school would otherwise use its own employees and who is under the direct control of the school with respect to the use and maintenance of PII from education records, such as an attorney, auditor, or collection agent. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the college. Upon request, the college may disclose education records without consent to officials of another school in which a student seeks or intends to enroll.

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

Directory Information at Chemeketa:
Directory information is defined as that information which would not generally be considered harmful or an invasion of privacy if disclosed. Designated directory information at Chemeketa Community College includes the following:
• Name
• Credit hour status (enrollment status, e.g. full-time, part-time, half-time, not enrolled)
• Dates and terms of enrollment
• Certificate or degree earned and date earned (including GED certificate and Chemeketa high school diploma)
• Certificate or degree candidacy and anticipated graduation date (including GED certificate and Chemeketa high school diploma)
• Athletic honors and statistics
• Honors, awards and scholarships (released only to other academic institutions)

Students may withhold directory information by notifying the Enrollment Center in writing by filling out a Request for Non-Disclosure form; please note that such withholding requests are binding for all information to all parties other than for educational purposes. Students should consider all aspects of the decision to withhold directory information prior to filing such a request. Such designation will call for Chemeketa Community College not to release any or all of this directory information; any future requests for such information from non-institutional persons or organizations will be denied. Regardless of the effect upon you, Chemeketa Community College assumes no liability as a result of honoring your instructions that such information be withheld. Although the initial request may be filed at any time, requests for non-disclosure will be honored by the college until removed by the student. Chemeketa Community College will honor your request to withhold directory information, but cannot assume responsibility to contact you for subsequent permission to release them.

See the list below of the disclosures that postsecondary institutions may make without consent.

• FERPA permits the disclosure of personally identifiable information (PII) from students’ education records, without consent of the student, if the disclosure meets certain conditions found in §99.31 of the FERPA regulations. Except for disclosures to school officials, disclosures related to some judicial orders or lawfully issued subpoenas, disclosures of directory information, and disclosures to the student, §99.32 of FERPA regulations requires the institution to record the disclosure. Eligible students have a right to inspect and review the record of disclosures. The college may disclose PII from the education records without obtaining prior written consent of the student -

• To other school officials, including instructors, within the college whom the school has determined to have legitimate educational interests. This includes contractors, consultants, volunteers, or other parties to whom the school has outsourced institutional services or functions, provided that the conditions listed in §99.31(a)(1)(i)(B)(1) - (a)(1)(i)(B)(2) are met. (§99.31(a)(1))

• To officials of another school where the student seeks or intends to enroll, or where the student is already enrolled if the disclosure is for purposes related to the student’s enrollment or transfer, subject to the requirements of §99.34. (§99.31(a)(2))

• To authorized representatives of the U. S. Comptroller General, the U. S. Attorney General, the U.S. Secretary of Education, or State and local educational authorities, such as a State postsecondary authority that is responsible for supervising the college’s State-supported education programs. Disclosures under this provision may be made, subject to the requirements of §99.35, in connection with an audit or evaluation of Federal- or State-supported education programs, or for the enforcement of or compliance with Federal legal requirements that relate to those programs. These entities may make further disclosures of PII to outside entities that are designated by them as their authorized representatives to conduct any audit, evaluation, or enforcement or compliance activity on their behalf. (§§99.31(a)(3) and 99.35)

• In connection with financial aid for which the student has applied or which the student has received, if the information is necessary to determine eligibility for the aid, determine the amount of the aid, determine the conditions of the aid, or enforce the terms and conditions of the aid. (§99.31(a)(4))

• To organizations conducting studies for, or on behalf of, the school, in order to: (a) develop, validate, or administer predictive tests; (b) administer student aid programs; or (c) improve instruction. (§99.31(a)(6))

• To accrediting organizations to carry out their accrediting functions. (§99.31(a)(7))

• To parents of an eligible student if the student is a dependent for IRS tax purposes. (§99.31(a)(8))

• To comply with a judicial order or lawfully issued subpoena. (§99.31(a)(9))

• To appropriate officials in connection with a health or safety emergency, subject to §99.36. (§99.31(a)(10))

• Information the school has designated as “directory information” under §99.37. (§99.31(a)(11))

• To a victim of an alleged perpetrator of a crime of violence or a non-forcible sex offense, subject to the requirements of §99.39. The disclosure may only include the final results of the disciplinary proceeding with respect to that alleged crime or offense, regardless of the finding. (§99.31(a)(13))

• To the general public, the final results of a disciplinary proceeding, subject to the requirements of §99.39, if the school determines
the student is an alleged perpetrator of a crime of violence or non-forcible sex offense and the student has committed a violation of the school’s rules or policies with respect to the allegation made against him or her. (§99.31(a)(14))

- To parents of a student regarding the student’s violation of any Federal, State, or local law, or of any rule or policy of the school, governing the use or possession of alcohol or a controlled substance if the school determines the student committed a disciplinary violation and the student is under the age of 21. (§99.31(a)(15))
- The disclosure concerns sex offenders and other individuals required to register under section 17010 of the Violent Crime Control and Law Enforcement Act of 1994.

FERPA Annual Notice Addendum

As of January 3, 2012, the U.S. Department of Education’s FERPA regulations expand the circumstances under which your education records and personally identifiable information (PII) contained in such records – including your Social Security Number, grades, or other private information – may be accessed without your consent. First, the U.S. Comptroller General, the U.S. Attorney General, the U.S. Secretary of Education, or state and local education authorities (“Federal and State Authorities”) may allow access to your records and PII without your consent to any third party designated by a Federal or State Authority to evaluate a federal- or state-supported education program. The evaluation may relate to any program that is “principally engaged in the provision of education,” such as early childhood education and job training, as well as any program that is administered by an education agency or institution. Second, Federal and State Authorities may allow access to your education records and PII without your consent to researchers performing certain types of studies, in certain cases even when we object to or do not request such research. Federal and State Authorities must obtain certain use-restriction and data security promises from the entities that they authorize to receive your PII, but the Authorities need not maintain direct control over such entities. In addition, in connection with Statewide Longitudinal Data Systems, State Authorities may collect, compile, permanently retain, and share without your consent PII from your educational records, and they may track your participation in education and other programs by linking such PII to other personal information about you that they obtain from other Federal or State data sources, including workforce development, unemployment insurance, child welfare, juvenile justice, military service, and migrant student records systems.

Solomon Amendment Disclosure

The Solomon Amendment requires by law that the college release to U.S. military recruiters the following student information: name, address, telephone numbers, date of birth, educational level, academic major, and degrees awarded. Completing the special form mentioned under “Student records policy” (above) will cause Chemeketa to withhold your information from military recruiters.

Grading System

The responsibility for evaluating student performance and for assigning grades rests with the instructor. The responsibility for demonstrating competency within the framework of a course’s outcomes and criteria rests with the student.

Students have the right to know how and on what basis their performance is being evaluated.

Final grades are issued at the end of each term. Letter grades are assigned points according to the following system:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/4</td>
<td>4</td>
<td>Excellent. An indication that the student has met the stated outcomes and course criteria at the highest level, demonstrating mastery of required knowledge and skills.</td>
</tr>
<tr>
<td>B/3</td>
<td>3</td>
<td>Very Capable. An indication that the student has met the stated outcomes and course criteria at a high level, demonstrating mastery of most required knowledge and skills.</td>
</tr>
<tr>
<td>C/2</td>
<td>2</td>
<td>Competent. An indication that the student has met the stated outcomes and course criteria with sufficient mastery of enough of the required knowledge and skills to be capable of success in other courses that require this course as a prerequisite.</td>
</tr>
<tr>
<td>D/1</td>
<td>1</td>
<td>Limited success. An indication that the student has only minimally met the stated outcomes and criteria of the course but may not have sufficient mastery of enough of the required knowledge and skills to be capable of success in other courses that require this course as a prerequisite.</td>
</tr>
<tr>
<td>F/0</td>
<td>0</td>
<td>Failure. An indication that the student has not adequately met the stated outcomes and criteria of the course.</td>
</tr>
<tr>
<td>IB/0, IC/0, ID/0, IF/0</td>
<td>0</td>
<td>Incomplete Assigned when some essential requirement of the course has not been completed and additional time is granted by the instructor for completion of coursework. An “I” does not entitle a student to satisfy a prerequisite.</td>
</tr>
</tbody>
</table>
for another course. For more information see this page.

P/0  Pass. Acceptable Performance. A grade of “P” represents satisfactory achievement which would have been graded “C” or better on the regular grading scale, but is given instead of a letter grade.

NP/0  No Pass. Unacceptable Performance. Does not satisfy requirements for entry into courses where prerequisites are specified.

CEU  Continuing education unit earned.

NOC  Continuing education unit not earned.

The student’s grade point average is computed by dividing the total credit hours (except I, P, NP, and PL) into the total points earned.

The following marks may appear on a student’s transcript and are assigned by Enrollment Services:

Mark Meaning

X  Audit. This mark is used when a student participates in the class but does not wish to receive a grade or credit for the course.

R  Course Repeated. The “R” mark is used upon student request when a course taken at Chemeketa has been repeated and the student receives a higher grade in the repeated course. For more information see page 24.

M  Missing Grade. This mark appears when an instructor neglects to enter a grade for the course. Students receiving an “M” should contact the instructor as soon as possible so that a grade change can be submitted to correct the omitted grade.

W  Withdrawal. A “W” mark will appear on the student’s transcript for any class dropped after the deadline to receive a refund and prior to the end of the sixth week of term. Courses marked with a “W” are not reflected in GPA or total credits calculated.

Incomplete

Incomplete grades are awarded at the request of the student and at the discretion of the instructor. A contract detailing the conditions for completion of work is required and must be completed prior to the end of the term. The default deadline for incomplete work to be submitted is automatically set to the end of the following term, but may be extended for up to one year at the instructor’s discretion. When the requirements of the contract have been met, the instructor will assign the appropriate grade. If the contract is not fulfilled by the deadline, the “I” grade will revert to the specified letter grade assigned at the time the incomplete contract was created.

Auditing Courses

If you enroll in credit courses but do not wish to receive grades or credits, you may audit the courses. You must pay full tuition and fees when auditing a course. Pick up and turn in an Audit Request Form at the Enrollment Center on the Salem Campus or from staff at any other college location before the end of the fourth week of the term.

Grade Changes

Awarding grades to students is the responsibility of the instructor of the course in which the student is registered. Once awarded, grades are final. They may not be changed except where evidence is presented (within one calendar year after the grade is assigned) that an error has occurred.

Pass/No Pass

A pass (P) grade indicates satisfactory completion of the course (equivalent to a C or better). A no pass (NP) grade means the course was not satisfactorily completed and no credit was granted. Some courses offer the option to choose between P/NP and a letter grade and some courses may be taken for a letter grade only. A pass grade satisfies the prerequisite of “C” or better required for entry into some courses. Each student is limited to receiving no more than 16 P/NP credits for an associate’s degree, and 8 P/NP credits for the Oregon Transfer Module or a certificate. Transfer students should be aware that four-year institutions limit the number of P/NP credits that may be applied to a degree. If you’d like to be graded P/NP, and the course qualifies, you must complete the P/NP Request Form, obtain your instructor’s approval by way of his/her signature and submit the request form to the Enrollment Center by the end of the fourth week of the term. P/NP grades cannot be changed back to a standard letter grade.

Continuing Education Classes

A continuing education unit (CEU) course is one that provides general or technical information which is applicable to the professional or technical field and will be of value wherever the individual is employed. CEUs are not equivalent to credit hours and therefore cannot be used toward Chemeketa credit certificates or degrees. Some programs offering CEU classes offer CEU certificates. One CEU is awarded for each ten hours or their equivalent. Chemeketa transcript records are available for CEU hours.

Tuition for CEU courses is charged regardless of the number of credit hours for which the student enrolls.
CEU classes do not meet the federal requirements for financial aid or veterans’ benefits.

**Repeating a Course**
503.399.5001
registrar@chemeketa.edu

Please consult your academic advisor before you repeat a course. Students cannot repeat a course beyond the maximum allowed number of attempts (generally 3). A student may appeal to register for a subsequent attempt through an academic appeals process based on extenuating circumstances and presentation of a plan to successfully complete the course. Meet with an advisor to develop a success plan for completing the course and include your plan with your appeal.

If you repeat a course and receive a higher grade you may request that the original grade be changed in your record and replaced with an “R” mark. Requirements for requesting your original grade be changed are:

- Both the original course and repeated course must have been taken at Chemeketa
- Both the original course and repeated course must be equivalent
- Only your original grade can be changed
- The grade on the repeated course must be higher than the original
- An original mark of “M, W or X” or grade of “I, N, NP or P” may not be changed by repeating a course.

An “R” mark is not used in computing your grade point average (GPA) nor is it used in determining the total number of credit hours you have earned. If you are receiving veterans’ educational benefits, requesting an “R” grade could have an effect on the benefits you were paid in the term you originally took the course. In some instances an overpayment obligation may be created by the VA. Please contact Chemeketa Veterans’ Services before submitting the Student Grade Repeat Request.

If you qualify to pursue this option, make your request by completing and submitting a Student Grade Repeat Request form to the Enrollment Center at the Salem Campus.

**Credits from Other Colleges or Universities**

Credits from other institutions may be accepted toward degree requirements, if they were completed at any regionally accredited college or university.

You must be a current credit degree-seeking Chemeketa student to request a transcript evaluation. To request an evaluation, complete and submit the Request for Evaluation and Transfer of Previous Credit form (found on chemeketa.edu) to Enrollment Services. Submit this request after you have requested official transcripts from all schools where you have previous coursework.

Transcript evaluations are performed in the order in which they are received.

All transcripts received by Enrollment Services become the property of Chemeketa. Enrollment Services will not provide copies of transcripts from other institutions. Enrollment Services is responsible for determining acceptance of transfer work to meet college requirements. Students should plan to meet with an advisor to review program requirements.

Transfer credit accepted by Chemeketa appears on the transcript under the heading “Transfer Credit” and “Other Chemeketa Credit” on your official transcript. The number of hours accepted from other institutions is recorded; however, the grades are not included in the GPA.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>T Transfer “C” or better</td>
<td>0.0</td>
</tr>
<tr>
<td>TD Transfer “D”</td>
<td>0.0</td>
</tr>
</tbody>
</table>

**International Credit**

In order to receive credit toward a Chemeketa certificate or degree, it is your responsibility if you have transcripts (credits) from international schools to have them translated (if necessary) and evaluated course-by-course by a service that is a member of the National Association of Credential Evaluation Services. We recommend the Academic Credentials Evaluation Institute, Inc. (ACEI).

**Alternate Approaches to Credit**

In addition to regular course work, students may earn credit for prior learning. Credit for Prior Learning (CPL) includes credit by exam, industry certifications, institutional challenge exams, military credit, prior learning portfolio, and professional licensure. Credit awarded through CPL must be directly applicable to meet requirements for general education, a certificate, a degree or electives as outlined in the college catalog. Chemeketa will evaluate the following for college credit: Advanced Placement, Challenge Exam, College Level Entrance Examination Program, Credit for Professional Certification, International Baccalaureate, Military Service Credit, and Prior Learning Portfolio. A maximum of 25% of a degree or certificate may be recorded for Prior Learning Portfolio.

Credit for Prior Learning will not be graded or calculated in the Chemeketa GPA except for Challenge Exams and Prior Learning Portfolio. Each type of CPL will appear with a unique notation on a Chemeketa transcript. Credit for Prior Learning may not be used to establish the residency requirement.

| Credit by Exam | 0.0 |
| Military | 0.0 |
Advanced Placement (AP)
If you have taken college level courses in high school under the Advanced Placement (AP) program you may be eligible to receive college credit pending official copies of test results. Request your official AP transcript to be sent to Enrollment Services. Credit awarded will vary based on scores received. A list of AP exams accepted by Chemeketa and credit received is available on our public website.

Challenge Exam
503.399.6556
testing@chemeketa.edu
Challenge exams are prepared by the college department directly responsible for the instruction of the courses. There is a non-refundable fee for each exam. If you successfully complete the exam(s), you must pay tuition and fees for the course(s) before the grade(s) are recorded on your transcript. Contact Testing Services on the Salem Campus for more information about earning college credits by challenge exam or visit our public website.

College-Level Examination Program (CLEP)
503.399.6556
testing@chemeketa.edu
If you have taken the College-Level Examination Program (CLEP) you may be eligible to receive college credit pending official copies of test results. Request your official CLEP transcript to be sent to Enrollment Services. Credit awarded will vary based on scores received. A list of CLEP exams accepted by Chemeketa and credit received is available on our public website.

If you wish to take a CLEP examination, schedule a testing time through Testing Services.

Credit for Professional Certification (CPC)
In specific career and technical education programs, Chemeketa may award credit for certified professional career training. If you are enrolling in such programs as Criminal Justice, Emergency Medical Technology/Paramedic, Early Childhood Education, Fire Science, or Apprenticeship, you may be eligible for a waiver of some basic preparation courses if defined criteria are met. There is a fee for each course assessed. For more information, contact your program advisor or Advising and Counseling Services. (Note: Certified Paramedics certified nationally pursuing the Paramedic program may receive 50 credits through CPC, 40 credits for the paramedic certification and 10 credits for the EMT Basic.)

International Baccalaureate (IB)
If you have completed International Baccalaureate (IB) Exams you may be eligible to receive college credit based on the official exam scores. The official International Baccalaureate Certificate is required in order to receive credit. Request an official IB transcript be sent to Enrollment Services. A list of IB exams accepted by Chemeketa and credit received is available on our public website.

Military Service Credit
Students using any type of Federal Veterans Administration (VA) Education Benefit, including Vocational Rehabilitation and Employment are required to have all prior credit history evaluated. Chemeketa awards college credit for military training and coursework based on ACE (American Council on Education) credit recommendations included in military transcripts. Chemeketa currently does not evaluate military experience. Request an official military transcript be sent to Enrollment Services and submit the Request for Evaluation and Transfer of Previous Credit form.

Prior Learning Portfolio (PLP)
In specific career and technical education programs and transfer subjects, Chemeketa may award credit for documented knowledge and skills that apply to the program in which you enroll. These may be skills you acquired through working, on-the-job training, volunteer service, non-credit courses or workshops, individual study, homemaking, and travel. There is a fee for each course assessed. Students register for PLP121. For more information, call 503.399.5114.
Academic Recognition recognition@chemeketa.edu

Chematka recognizes outstanding academic performance by placing students on one of three lists. **Honor Roll** recognizes students who earn a term grade point average of at least 3.00 while completing six or more credit hours. **The Dean’s List** recognizes students who earn a term grade point average between 3.50 and 3.99 while completing 12 or more credit hours. **The President’s List** recognizes students who earn a perfect 4.00 grade point average while completing 12 or more credit hours. Students who qualify for academic recognition receive email notification of their honor and may choose to download documents which commemorate their achievement.

Academic Progress/Review Program 503.399.5076

Chematka wants to help you reach your academic goals. To accomplish this, the college has initiated an academic progress/review program that provides for intervention at certain points throughout your enrollment at Chemekata. These intervention points are determined by either grade point average and/or course completion rate. Listed below are the criteria used for determining intervention by the Academic Progress/ Review Program:

**Academic Warning Status**
• A student taking six or more credit hours who falls below a 2.00 term GPA

**Academic Probation Status**
• A student who is below a 2.00 term GPA for a second consecutive term, or
• A student who falls below a 2.00 cumulative GPA, with 18-29 attempted credit hours

**Academic Suspension Status**
• A student who has 36 or more attempted credit hours and falls below a 2.00 cumulative GPA. The student will be suspended from further enrollment at Chemekata until reinstated. The student may appeal the suspension through the Dean of Students.

**Academic Reinstatement**
• Once suspended, a student will not be allowed to register for credit classes for a period of one academic year. After the one-year period, a student may file an appeal with the Academic Review Committee for reinstatement.

Course Prerequisites
Prerequisites are specified in the course descriptions. These are conditions you must meet before enrolling in a course. It is your responsibility as a student to fulfill the prerequisite.

Some prerequisites indicate that you must complete certain preparatory courses or must have the consent of the course instructor. To gain consent, contact the instructor before you register. Consent is based upon the instructor’s assessment of your readiness to enroll in the course.

If you do not meet the prerequisite for a course, you may be dropped.

Cooperative Work Experience/Internship 503.399.5028 cwe@chemeketa.edu

As a student, you may be qualified to participate in internship in your career field through the Cooperative Work Experience (CWE) program. This program allows you to combine your classroom studies with work-related experiences. CWE is offered every term, through every academic program.

In this program, a CWE faculty or program faculty member assists you in finding a qualified training site. Your current job may qualify if it relates to your studies and if you are developing new skills.

In helps you expand your knowledge of, and experience in, your selected program while you earn college credit. You gain valuable references for future employment and you can make the transition from school to career a smooth process.

See your program advisor to determine if CWE is a requirement for degree completion. The CWE office is located in the Building 38, on the Salem Campus.

**Job readiness classes**—Classes are offered to all students. These classes include Résumé and Job Search Correspondence, Interviewing for Success, and Career Jump Start.

These classes are listed under “Job Search” in the Schedule of Classes.

Chemekata Online online.chemeketa.edu 503.399.7873

Chematka is a leader in online education in Oregon. We offer more than 300 credit and noncredit courses each term. You have the option to complete the Oregon Transfer Module, 13 online degrees, 17 certificate programs or take individual classes.

**Degrees**

Associate of Arts Oregon Transfer (AAOT), Associate of General Studies (AGS), Associate of Applied Science (AAS) Accounting, AAS; Accounting Administrative Assistant, AAS; Administrative Office Professional, AAS; Fire Prevention,* AAS; Hospitality and Tourism
Management, AAS; Juvenile Justice, AAS; Management, AAS; Procurement and Supply Chain Management, AAS; Speech-Language Pathology Assistant, AAS; Virtual Office Assistant, AAS; and Associate of Science Oregon Transfer (ASOT) in Business.

*Fire Protection Technology Programs have significant required on-campus components.

**Certificates**

You can earn a certificate in Accounting, Accounting Baccalaureate Preparation, Business Software, Business Technology, Event Management, Food and Beverage Management, Hospitality and Tourism Management, Lodging Management, Office Fundamentals, Payroll, Procurement Management, Retail Management, Speech-Language Pathology Assistant, Sustainability in Management, Tax Preparation, Tourism and Travel Management and Virtual Office Assistant.

Information about online courses is available at online.chemeketa.edu. A $50 fee is charged for each online class in addition to tuition and applicable course fees.

Online courses allow you to work on assignments at your convenience. However, you will be expected to log in to the course website frequently each week, respond to online discussions, and use the Internet as a research tool. Some online courses may have required on-campus labs.

Interaction with the instructor and other students is facilitated through discussion posts and email. A student email address will be assigned to you through your My Chemeketa account. This college-assigned email is to be used for all communication with Chemeketa instructors and staff.

Successful completion of online courses requires current technology. You will need access to a computer with required hardware and software. It will also be necessary to use a browser such as Google Chrome, Firefox, Safari, Microsoft Edge, or Internet Explorer. Microsoft is no longer supporting Internet Explorer 8 or below. We strongly recommend a high-speed broadband connection such as DSL or cable. Some courses with audio, video, or graphic components may not load properly if you are using a slower Internet connection.

Go to online.chemeketa.edu to view the Chemeketa Online eLearn Start Guide for detailed information.

A technical orientation and information outlining minimum requirements are available at online.chemeketa.edu.

If you have any questions regarding online classes or the schedule, please contact Chemeketa Online at 503.399.7873 or email online@chemeketa.edu.

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**Evening and Weekend Classes**

Chemeketa offers evening and weekend formats that provide a full range of courses leading to degrees. You can earn required credits in mathematics, science, writing and more.

A supportive weekend environment includes a community room and student services, and an innovative format of hybrid courses allows students to begin any term and finish first year requirements in one year.

**Independent Study**

503.399.5120

You may receive credit for an independent study of topics not included in the college's curriculum. If you are ready to learn on your own and are interested in studying a topic, contact your academic advisor or an instructor who teaches that subject. With that person, you can explore the possibility of an independent study project.

**Occupational Skills Training**

503.399.7398 ost@chemeketa.edu

You can earn college credit and a Certificate of Completion for work-based training with cooperating employers/training sites throughout the state. Instruction is based on a personalized curriculum created for you by the skills training coordinator, site supervisor, and/or sponsoring vocational consultant, if a sponsoring agency is involved. Relevant classes may also be part of the training if those classes are essential to developing the skills being sought. Workers’ compensation coverage is included. For further information about the program, see page 132 in the Programs of Study.

**On-the-Job Evaluation**—The OJE is designed to provide a way to clarify vocational goals and assess capabilities and potential for a designated job or training area. This is a non-credit, non-graded process that is monitored according to a personalized outcome assessment and provides workers’ compensation at the training site.

**Student-instructor Conferences**

You may confer with your instructors regarding class assignments and methods of study. Office hours are posted in each faculty office area and are listed on each course syllabus.

**Service Learning and Study Abroad**

503.365.4686 international@chemeketa.edu

Chemeketa Community College provides opportunities to go abroad while earning Chemeketa Community
College transfer credits. Courses are taught by Chemeketa faculty. For specific offerings, see our website chemeketa.edu/international
Current programs include: Service Learning in Belize and Mexico and our Japanese Language Exchange with Otemae University. For an appointment for information re: these or other opportunities contact: Teter Kapan at the phone number or email above.

Student Development Services

Tours of Campus
503.399.5000
getstarted@chemeketa.edu
Tours of the Salem Campus are conducted by Chemeketa's Student Ambassadors. You may call or email to schedule a student-guided tour.
Tours of the Yamhill Valley Campus are conducted by student leaders. Please call to schedule a tour.
503.472.9482

Student Email Accounts
503.399.7899
Salem Campus, Building 9, Room 128
Every Chemeketa student automatically gets a free student Gmail account and access to Google Apps. Your student email account is used by the college to communicate important information, such as course changes, information about your program of study, and notifications about academic recognition. You can also use the account for personal correspondence. You can even take your email account with you; it's there forever and you can continue to use it even after you complete your educational goals.

Student Computer Center
503.399.5043 (Salem Campus)
503.316.3238 (Yamhill Valley Campus)
go.chemeketa.edu/computerlab
Students have drop-in access to the computer center at each of Chemeketa's campus libraries. Stop in before or after class to work on assignments, check email, or work on personal projects. Computers have many software applications used in Chemeketa courses. Students can use tools like Adobe Creative Suite, Quickbooks, and Microsoft Office for free. See our website for a list of available software and hours of operation. Instructional technicians and tutors are available to help.
Our most popular services include:
- eLearn and online course help
- WiFi help and personal device assistance
- Printing, photocopying, and scanning
- Tutoring for computer-intensive classes
The Salem Campus computer center is located in the Library in Building 9, second floor. Student ID card required (available at the Bookstore).
The Yamhill Valley Campus computer center is located in Building 1, Room 204. Student ID card required.

Student Accessibility Services
503.399.5192 voice
studentaccess@chemeketa.edu
Chemeketa offers support services for students with disabilities. If you have a documented disability, including learning, psychiatric, sensory, orthopedic, or other, please know that support services are available for you.
Student Accessibility Services (SAS) is located in Building 2, Room 174. We provide information about academic accommodations for coursework and testing, access to facilities, digital media formats, sign language interpreters, and campus resources. Students are encouraged to contact the SAS early in the academic process to ensure materials and services are provided in a timely manner. We can discuss college processes, and help you advocate for your specific needs.

Chemeketa Language Center
503.399.5290
The Chemeketa Language Center welcomes students enrolled in language courses including English for Speakers of Other Languages (ESOL/ENL), American Sign Language and foreign languages. We provide a large variety of resources to support language learning for independent and classroom settings including a 34-computer iMac smart classroom (each computer features Web cameras and multimedia headsets), and an additional 14 Windows PCs for independent study. The helpful and knowledgeable lab staff are eager to help students and instructors make the best use of our resources. Please feel free to contact us anytime with questions. Drop by Bldg. 22, Rm. 109 or call 503.399.5290.

TRIO Programs
503.315.4293
Chemeketa currently operates a variety of TRIO programs, each designed to provide support for low-income, first-generation students and students with disabilities wanting to pursue higher education.
Student Support Services offers academic support, advising, individual tutoring and mentoring to Chemeketa's TRIO students, including those with documented disabilities. Students may earn free college credits through selected program-sponsored classes and are eligible to borrow some textbooks,
have access to the computer resource center including free printing, and calculators at no cost. Transfer assistance, scholarship information and college visits are available to students planning to transfer to a four-year college or university.

**Talent Search** provides a path to college success for middle school and high school students at Chemeketa’s Talent Search grant schools. The program provides access to tutoring and mentoring services to help students thrive at Chemeketa. Talent Search also prepares students to go on to universities with campus visits, assistance with university admission applications, entrance exams and paying for a bachelor’s degree.

**Upward Bound** helps high school students at Chemeketa Upward Bound grant schools get ready for college through tutoring, field trips, and Saturday workshops that focus on a wide range of college preparation activities. Upward Bound also offers a six-week Summer Academy where students earn high school credits.

If you are interested in participating in any of these programs, please contact the TRIO coordinator in Building 2, Room 230, on the Salem Campus, or visit go.chemeketa.edu/trio.

**Tutoring & Study Skills Center**

All enrolled Chemeketa students can access a variety of tutoring and study skills services:

- Drop-in peer tutoring in math, science, reading, writing, and languages
- Real-time online eTutoring in math, sciences, accounting, and other subjects – see the public website for the current term CRN and more information.
- Workshops on study skills – topics include time management, avoiding procrastination, test-taking strategies, and more
- Workshops on writing – topics include sentence skills, MLA and APA documentation, revising/editing/proofreading, and more
- Meet with a consultant about developing effective learning habits
- Quiet study area with computers, printing, textbooks, and calculators for use in the space

**Locations and Contact Information:**

**Salem Campus**
Building 2, Rooms 210 & 212
Tutoring—503.399.5190, tutor@chemeketa.edu
Study Skills—503.399.5162, studyskillscenter@chemeketa.edu

**Yamhill Valley Campus**
Building 1, Room 200
503.316.3238

**Woodburn Center**
Commons Area

**Polk Center**
Commons Area

For more information, see the Studying tab on MyChemeketa and the public website at go.chemeketa.edu/tutoring
Chemeketa Completion Program (CCP)
go.chemeketa.edu/collegeaccess
503.399.5147

CCP provides a support system and builds a college-going culture for students not eligible for CAMP or TRIO who are completing a Chemeketa degree or certificate, attending a minimum of nine credits each term, and on the path to complete their degree and/or certificate within three years from being accepted into the program. CCP provides assistance with navigating the college systems, such as: financial aid, ORSAA and/or other resources, registration, academic advising, transfer process, and success coaching to ensure students persist and complete. CCP students have access to the Chemeketa Textbook Lending Library and the same services as TRIO SSS.

Migrant Education Programs

Chemeketa currently operates two programs to help migrant and seasonal farm workers and their children attend classes. These programs are funded by the U.S. Department of Education. You may be interested in participating in one of these:

College Assistance Migrant Program (CAMP)
The College Assistance Migrant Program (CAMP) is a federally funded program that supports students from migrant and seasonal farmworker backgrounds during their first year in college. The program provides 55 students every year with both financial assistance and comprehensive support services with a goal of preparing them to obtain a technical/career degree or continue their education at a four-year college or university. Second year students will have access to follow-up services. If you are interested and want more information about CAMP, call 503.589.7778.

High School Equivalency Program (HEP), located on the Salem Campus, is designed to assist 70 migrant and seasonal farmworkers and/or immediate family members in obtaining the equivalent of a high school diploma (GED) each year. Program elements include instruction in Spanish and English, academic advising, tutoring, technology and computer training, cultural enrichment activities, and academic excursions. Benefits to students include an extended evening class schedule, classrooms and computer labs with adequate supplies, instructional and testing materials, subsidized medical care, transportation stipends, and childcare scholarships. If you are interested and want more information about HEP, call 503.589.7725.

Office of High School Partnerships
503.399.5293

Chemeketa has several programs offered at various locations to help you earn the high school credits needed for a high school diploma or its equivalent. Students must be 16–20 years old to participate. Certain 15 year olds may be accepted after completing specific requirements, including placement tests. For additional information on how to apply, please contact the Office of High School Partnerships at 503.399.5293 or visit our website at go.chemeketa.edu/highschool.

Alternative High School Programs

Winema High School Completion Program (HSC) is designed to provide a safe environment that promotes student respect, responsibility and success. HSC’s closed campus and high expectation behavioral policies all contribute to providing you with safe surroundings where you are free to focus on your courses and goals. The greatest advantage of attending HSC is the fresh start you are offered both socially and academically.

The HSC program runs on an accelerated schedule. You will attend classes in blocks; at the end of each block you will have the opportunity to earn up to one high school credit. When you attend and complete the Winema High School completion program, you will receive your high school diploma.

Winema GED/High School Options Program is designed for students looking for an alternative path towards academic success. This program incorporates the high standards of a college environment while providing you a safe and supportive community. You will work closely with faculty and staff to build your skills in preparation for the GED exam and future possibilities. When you enroll in our GED/High School Options program you will attend classes regularly during one of our two class options.

College transitions programs for high school students in partnership with various school districts, Chemeketa has developed early college opportunities for high school students. In these programs, you work with your school district counselor to get approval to take college courses at one of Chemeketa’s many locations. College credit applies for both college and high school requirements. A charter school entry option is also available at all Chemeketa locations. For information or enrollment, contact 503.399.5293.

Adult High School Diploma Program in Chemeketa's Adult High School Diploma program, you may earn the credits you need to receive a high school diploma while taking college courses. To enroll in the Adult High School
Diploma program, take copies of your high school and college transcripts to Chemeketa Community College, Winema Office, Building 50/102 on the Salem Campus. To participate, you must take the college placement tests and meet the minimum entry scores. You must have a release from your high school to participate in this option if you are under 18 years old. Please contact 503.399.5293 for more information.

Concurrent Credit Opportunities

Summit Community High School College allows you to earn high school and college credit simultaneously while attending college courses. This concurrent enrollment program provides you with the unique opportunity to work toward a high school diploma and a college certificate or degree at the same time. The college program is open to students from all school districts and home schools. For more information and eligibility requirements call 503.630.5001.

Salem/Keizer Early College High School is a concurrent enrollment program providing students with high school and college credit opportunities. Students interested in this program must be currently enrolled and complete the admission requirements determined by Salem/Keizer school district. For more information call 503.399.4800.

Expanded Options (EOP)—SB300 The Expanded Options program allows students to be concurrently enrolled in both their current high school and taking courses at the Chemeketa Campus. Your current school district determines your eligibility and guidelines. Please contact your school district for eligibility requirements.

College Credit Now You can earn college credit through College Credit Now at your local high school. This program gives you the opportunity to take college level classes in the comfort of your current high school. For more information contact your local school district or call 503.399.5239.

Other opportunities through your local high school Chemeketa contracts with many surrounding school districts to provide high school students with college credit options. Please contact your high school to determine eligibility and admission requirements.

Woodburn Center Programs

Woodburn Summit Community High School College Program The Early College program is designed for Woodburn students who are working on their high school graduation requirements and are interested in improving skill levels in math, writing, reading, and technology. It is a supported environment designed to improve success within the college experience.

Woodburn Success Transition to Early College (TEC) The TEC program is an opportunity for students from Woodburn Success that have completed the majority of their high school credits, prior to the end of the school year, to begin taking college courses in advance of the Woodburn Early College academic year. It is designed to support a seamless transition from high school to college level programs.

Woodburn Winema GED/High School Options Program is designed for students looking for an alternative path towards academic success. This program incorporates the high standards of a college environment while providing you a safe and supportive community. You will work closely with faculty and staff to build your skills in preparation for the GED exam and future possibilities. When you enroll in our GED/High School Options program you will attend classes regularly during the day.

Academic Development Programs

The college offers several programs to help adults improve reading, writing, and math skills to prepare adults for work or to study in college.

GED (General Education Development) 503.399.5224, Building 22, Room 100

The GED Program is for English-speaking adults with basic comprehension and literacy skills who want to take classes to prepare for the GED Exam. Classes are offered in the morning and evening for all four GED subjects: Language Arts, Math, Science, and Social Studies, taught by experienced instructors. Students preparing for the GED Exam will also acquire learning strategies that will help them succeed in a college setting after obtaining their GED. Classes are available Monday-Thursday for 11 weeks each term. Students enrolled in the program will have access to the computer lab and instructional specialists outside of their scheduled class time. Students who complete the program are eligible for scholarships when transitioning into the college.

Enrollment process includes

- Attend an informational orientation.
- Take a CASAS placement test.

Costs

- $20 Testing Fee (due at time of testing)
- $95 Tuition (due at time of registration)
- $40 Annual Parking Pass
Financial Assistance
S.T.E.P. provides personal support and coaching to SNAP recipients who are not receiving TANF to help meet their education and career goals.

- Salem—Angelica 503.399.6509 or Ana 503.399.5119
- Yamhill Valley—Jorge 503.584.7543
- Woodburn—Irma 503.316.3255
- Polk Center (Dallas)—Nancy 503.316.3242

Contact:
- Salem—503.399.5224
- Polk (Dallas)—503.399.5206
- Woodburn—503.399.5213
- Yamhill Valley—503.399.5219

GED en Español (Desarrollo de Educación General en Español)
503.399.5224, Edificio 22, Oficina 100

Puedes obtener un certificado de equivalencia de escuela secundaria pasando pruebas de Desarrollo Educativo General (GED) en español. Hay cuatro pruebas que cubren las siguientes materias: Artes Del Lenguaje (escritura y lectura), Estudios Sociales, Ciencias y Matemáticas. El programa de GED en Español ofrecen clases por las tardes para repasar habilidades básicas en lectura, escritura y matemáticas, y para prepararte para pasar las cuatro Pruebas de GED. Los estudiantes que completen el programa son elegibles para becas cuando estén haciendo la transición a la universidad.

El programa de GED en español para adultos te ofrece
- Clases vespertinas
- Las clases cubren las cuatro materias para la prueba de GED
- Tutoría uno-a-uno
- Acceso 24/7 a herramientas de aprendizaje en línea
- Asesoramiento individualizado
- Pruebas gratuitas de práctica oficial

Costo
- $95 por trimestre (se paga al momento de Registro).
- $20 por los exámenes de evaluación (se paga al momento de presentar examen).
- Estacionamiento $40 al Año

Asistencia Financiera
Asistencias financiera está disponible para aquellos que reciben los beneficios de SNAP pero no TANF. Por favor llame al número apropiado para conocer los requisitos de elegibilidad y obtener más información.

- Salem—Angelica 503.399.6509 or Ana 503.399.5119
- Yamhill Valley—Jorge 503.584.7543
- Woodburn—Irma 503.316.3255
- Polk Center (Dallas)—Nancy 503.316.3242
HEP (High School Equivalency)
503.589.7725, Building 22, Room 100

The High School Equivalency Program (HEP) helps migratory and seasonal farm-workers and their immediate family members who are 16 years of age or older and not currently enrolled in school to obtain a GED and subsequently to gain employment or begin post-secondary education or training.

Eligibility
- A student is eligible for HEP if they meet one of the following criteria:
  - They or their immediate family members have engaged in migrant or seasonal farm work for at least 75 days in the last 24 months.
  - They have participated or been eligible to participate in the Workforce Investment Act 167 program (WIA 167).
  - They were eligible to participate Title C Migrant Education program within the last 24 months.

AND
- Is at least 16 years of age or over;
- Is not currently enrolled in an elementary or secondary school;
- Has not earned a secondary school diploma or its equivalency.

HEP will provide you with the academic skills necessary to pass the GED exams (Reasoning Through Language Arts, Mathematical Reasoning, Social Studies and Science) and other services, including –
- Academic advising
- Academic excursions
- Books and materials
- Classes in English and Spanish
- Meals
- Stipend
- Tutoring services
- Technology and computer class

You might also eligible for the following assistance –
- Childcare
- Transportation
- Vision and dental

English Language Learning
English for Speakers of Other Languages (ESOL)
503.399.5224., Building 22, Room 100

The ESOL program offers English class to people whose native language is not English. Classes are taught by experienced instructors in the morning and evening Monday-Thursday. Classes range from beginner to advanced in reading, writing, listening, speaking, pronunciation, grammar, and technology. Students enrolled in these classes will also have access to the program’s computer lab and instructional specialists outside of class hours. Students who complete the program are eligible for scholarships when transitioning into the college.

Enrollment process includes
- Attend an informational orientation.
- Take a CASAS placement test.
- Costs:
  - $20 Testing Fee (due at time of testing)
  - $95 Tuition (due at time of registration)
- Students may need to buy textbooks for some classes

Contact
- Salem—503.399.5224
- Polk (Dallas)—503.399.5206
- Woodburn—503.399.5213
- Yamhill Valley—503.399.5219
Financial Assistance
S.T.E.P. provides personal support and coaching to SNAP recipients who are not receiving TANF to help meet their education and career goals.
- Salem—Angelica 503.399.6509 or Ana 503.399.5119
- Yamhill Valley—Jorge 503.584.7543
- Woodburn—Irma 503.316.3255
- Polk Center (Dallas)—Nancy 503.316.3242

Contact
- Salem—503.399.5224
- Polk (Dallas)—503.399.5206
- Woodburn—503.399.5213
- Yamhill Valley—503.399.5219

Inglés para hablantes de otras lenguas (ESOL)
503.399.5224, Edificio 22, Oficina 100
El programa de Inglés para hablantes de otras lenguas (ESOL) ofrece clases de a aquellos cuyo idioma nativo no es el inglés. Ofrecemos clases por la mañana y por la tarde de lunes a jueves, desde principiantes hasta clases avanzadas en lectura, escritura, comprensión auditiva, expresión oral, pronunciación y tecnología. Los estudiantes inscritos en estas clases también tendrán acceso al laboratorio de lenguajes y a los especialistas instructivos fuera de las horas de clase.
Estudiantes que completen el programa, son elegibles para una beca para la transición al colegio.

El proceso de inscripción incluye
- Asistir a una orientación informativa.
- Tomar una prueba de colocación CASAS

Costos:
- Cargo de evaluación $20 (tiene que pagarse al momento del exámen)
- Cargo de inscripción $95 (al momento de la inscripción)

Asistencia Financiera
Asistencia financiera está disponible para aquellos que reciben los beneficios de SNAP pero no TANF. Por favor llame al número apropiado para conocer los requisitos de elegibilidad y obtener más información.
- Salem—Angelica 503.399.6509 or Ana 503.399.5119
- Yamhill Valley—Jorge 503.584.7543
- Woodburn—Irma 503.316.3255
- Polk Center (Dallas)—Nancy 503.316.3242

Reading and Study Skills program
503.399.5162
The Reading and Study Skills program offers college credit individualized, lecture, hybrid, and online classes for developmental and transfer students who need to improve their academic skills in academic reading and effective learning. A reading and study skills faculty member is available to consult with you and your instructors on course-specific learning strategies, including taking tests, controlling test anxiety, and managing time. For more information on these credit classes and services, contact the Tutoring and Study Skills Center in Building 2, Room 212, on the Salem Campus. Classes in reading, and study skills are also offered at the Dallas, Yamhill Valley and Woodburn locations.

Chemeketa Language and Culture Institute
503.365.4686 Fax 503.365.4768 internationaladmissions@chemeketa.edu
The Language and Culture Institute collaborates with the ESOL program to provide English instruction to meet the needs of international students planning to enter American colleges and universities. It also serves students who want to experience American culture and improve their English for personal or professional reasons. The college offers instruction at several English levels from beginning to advanced. The intermediate and advanced English levels may be taken for college credit. The institute also customizes short programs for small groups.

English Now
503.399.5224
The English Now (EN) program offers limited English-speaking students the opportunity to learn English in non-credit community education classes. EN classes are for adults wanting to learn some practical English communication skills focused on speaking and listening and supplemented with reading and writing instruction. EN courses were designed to help students become more confident with the language, more comfortable in social situations, and more connected to their community. Students can transfer to ESOL or ENL classes upon completion of EN courses.

Si inglés no es su lengua nativa y desea mejorar su habilidad de conversar sobre temas básicos, Chemeketa le ofrece cursos sin crédito por las mañanas y por las noches de Inglés Ahora. Hay un pago trimestral para tomar clases de Inglés Ahora. Estudiantes que desean tomar cursos de Inglés Ahora deberán ponerse en contacto con la oficina de Inglés Ahora.

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503.365.4686 Fax 503.365.4768
internationaladmissions@chemeketa.edu
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Writing Center
503.399.7179 cwc@chemeketa.edu
go.chemeketa.edu/write
The Chemeketa Writing Center (CWC) and Chemeketa Online Writing Center (COWC) will help any Chemeketa student with any writing assignment or project. Both writing centers are free courses Chemeketa students can register for using MyChemeketa. We can help at any stage of the writing process from brainstorming to revising and editing, offering one-on-one, group, and online consultations with highly-qualified instructors. In some academic terms customized mini-courses on writing basics are also available. Contact the CWC by calling 503.399.7179 or stopping by the center, located in the Salem Campus library. Instructions using the COWC can be found online at online.chemeketa.edu/student-services/online-writing-center/.

Career Center
503.399.5026 careercenter@chemeketa.edu
go.chemeketa.edu/careercenter
Building 2, Room 115
The Career Center is here to connect you with potential employers for jobs while you are in school and after you graduate. We provide job listings for part-time and full-time employment, along with résumé and cover letter assistance, interview practice, and other tips for job seekers. We also hold workshops and career fairs throughout the year to assist you in achieving your career goals.

Student Services
Associated Students of Chemeketa (ASC)
503.399.5185 or 503.399.5116
asc@chemeketa.edu
The ASC Student Council represents the Chemeketa student voice on the Chemeketa Board of Education, Oregon Community College Student Association (OCCSA), and various college standing committees, including Academic Standards, Curriculum Committee, Presidential Advisory Council, Sustainability Advisory Council, the Diversity Advisory Council and more. Chemeketa also has a representative on the board of the Oregon Community College Student Association (OCCSA), a state-wide, student-run organization representing more than 300,000 community college students in Oregon. Their mission is to represent, advocate, and promote the well-being of students at Chemeketa Community College.

This team also works on a variety of projects including campus clubs, political action, voter registration and voter education. As a member of this team, you can assist in organizing the Council of Clubs, Club Fairs, and various civic engagement projects. Students are selected through an application and interview process to determine their interests, abilities and experience. You may be paid at an hourly rate, a tuition grant, or a combination of both. Federal Work Study recipients are eligible to apply.

Find out more about ASC online here: go.chemeketa.edu/asc

The Book Exchange
503.399.5116
collegelife@chemeketa.edu
Chemeketa’s Book Exchange offers a non-profit free service to Chemeketa students as an alternative to purchasing new textbooks for their classes. Operated by the Student Retention and College Life, this exchange allows students to sell textbooks they no longer need to other students who may need them at a reduced price. Students can also sell or buy calculators. Because this is a free service to students, we can only take cash (exact change). Only textbooks being used the following term will be accepted.

The Book Exchange is located in the Student Retention and College Life department in Building 2, Room 176. Drop off your textbooks starting finals week of fall term and winter term. Buy your textbooks the first and second week of winter term and spring term.

Bookstore
503.399.5131
bookstore.chemeketa.edu
Bookstore hours, Salem Campus—
7:30 am–5 pm, Monday–Friday. Extended hours during the beginning of each term. See website for details.
Services—USPS and UPS shipping, postage stamps, phone charging station, faxing, scanning, bus passes for Cherriots and Cherriots Regional, and discounted movie tickets.
Course materials—The Bookstore sells textbooks at the Salem and the Yamhill Valley Campus and online. New, used, rentals and ebooks are available. Visit our website to view or order required course materials. Also on our website is a list of all low cost and no cost course for course materials. Many courses have a Digital Course Materials Fee. Course materials are made available in the class website by the first day of class and the student account is charged with tuition and other fees. More information on the store’s website.
Buyback—During finals week the Salem and YVC pay cash for books. Check our website to see how much we will pay for books the week before finals week.

Other items—The place to purchase Chemeketa apparel, school supplies, art supplies, earbuds, flash drives, and more.

Chemeketa Food Pantry
503.399.5116 collegelife@chemeketa.edu

The Chemeketa Food Pantry is a resource for our campus community. It helps students in need focus on their studies rather than how they are going to feed themselves. The Chemeketa Food Pantry is coordinated by the Student Retention & College Life department, the Marion/Polk Food Share and the community. With donations from students, staff, and the community we are able to help students in need. We ask for non-perishable, unopened, and unexpired items such as: baby food or formula, beans, canned vegetables or fruits, crackers, chips, nuts; oatmeal, pudding or Jell-O, soups, canned tuna or chicken, boxed meals, cereal, drinks, pasta, rice, canned spaghetti sauce, or canned tomatoes. We also receive fresh vegetables from the Chemeketa Horticulture Program and the Marion/Polk Food Share during harvest season.

If you need food or would like to donate to the Chemeketa Food Pantry, you can stop by Building 2, Room 176 Monday, 8 am–5 pm; Tuesday–Friday, 8 am–8 pm; Saturday, 9 am–4 pm.

Child Care
Chemeketa offers child care at the Child Development Center on the Salem Campus. The program is a SPARK/QRIS rated program.

Child Development Center, Building 39, 503.399.5107. As a training center for students enrolled in the Early Childhood Education program, the center offers full- or part-time care for children ages two-and-a-half to six years. Applications are accepted at any time, but you should apply early. Contact the center for applications and fee information.

CCAMPIS Childcare Assistance is available for eligible low-income student parents through Chemeketa’s student-parent program STEPS (Support to Expectant and Parenting Students). STEPS offers a limited number of child care grants available to assist with up to 50% of childcare costs, depending on the student’s enrollment each term. Funding for this assistance is provided by Chemeketa’s federally-funded CCAMPIS (Child Care Access Means Parents in School) grant. For information, contact STEPS at 503.365.4603 or visit us in the Student Parent Resource Center located on the Salem campus in Building 2, Room 229.

The Financial Aid Office has a list of other child care centers in the Salem area, or you may look-up Online Child Care Search. Local child care providers advertise their services on a bulletin board located in the Student Center in Building 2 on the Salem Campus, and local information may also be available at other campus locations.

Conversation Tables
503.365.4686 international@chemeketa.edu

Conversation Tables are facilitated by international and local leaders. Conversation Tables are held weekly beginning the second week of each term in Building 2, Student Programming Center. Chemeketa students may learn about new cultures and new languages such as: ASL, Arabic, Chinese, English, French, Japanese and Spanish. Please note the languages vary from term to term based on the availability of facilitators. Please contact us if you are interested in becoming a student leader and facilitating a Conversation Table.

Design OP
503.399.8160

Design OP provides hands-on opportunities for Visual Communications students interested in putting into practice skills they are learning in the program through graphic design and/or interactive media. These opportunities help students be successful in their program as well as in the graphic design industries as business leaders. Simultaneously, they learn how to manage a small business, work with a team of graphic designers, critique and consult with each other, project management processes and skills, build a working relationship with vendors, design for various medias, consult with clients and assist them with their design needs. Various duties may also include photography, video, web design, and collaborate with other departments to design recruitment and/or retention materials.

Students not in the Visual Communications program who are proficient and have a passion for photography, video and/or web design, are encouraged to apply.

First Aid
503.399.5023 publicsafety@chemeketa.edu

For minor first aid services on the Salem Campus, call Public Safety at 503.399.5023. For medical emergencies, call 911. If you are at another college location and need assistance, please contact one of their staff. There are also emergency phones located throughout the Salem Campus which will connect you
directly with the college’s Public Safety Office. As the college has no physician or campus health facilities, you must rely upon your personal physician, dentist or clinic to meet your medical needs.

**Housing Information**  
503.399.5116

Chemeketa does not provide housing. However, the Office of Student Retention and College Life on the Salem Campus maintains a bulletin board listing available housing, including apartments for rent, rooms for rent in homes, homes for rent, and roommates wanted. You may post a notice and also check this bulletin board for housing. Other Chemeketa campuses and centers may have similar information available.

**Intercollegiate Athletics**  
503.399.5082

Chemeketa is a member of the Northwest Athletic Conference (NWAC), which includes community colleges in Oregon and Washington, Idaho and the province of British Columbia. This highly-organized athletic program provides quality, competitive opportunities for student-athletes. In keeping with the standards of the program, emphasis is put on academic progress, completion and athletic opportunity.

Chemeketa fields teams in men’s baseball, men’s and women’s basketball and soccer, and women’s volleyball, softball, cross-country, and distance running.

If you participate in intercollegiate athletics, a physical examination and documentation of immunization for measles are required. Team travel, equipment, and secondary health insurance are provided.

**Leadership Development Courses**  
503.399.5116  
collegelife@chemeketa.edu

The Office of Student Retention & College Life offers several leadership development courses through the Student Leadership Development department (SLD) for students who want to grow and develop their leadership skills. Leadership classes are a great way to get connected to Student Life on campus, learn how to become further involved in student life programming and more. These classes include Community Service Leadership, Leadership Development, Intercultural Leadership Development through Film, and Leadership through Mentoring.

**Leadership through Mentoring Program**  
503.399.5116

The Leadership through Mentoring Program aims to improve retention and academic advancement rates of high school and middle school students at local Boys & Girls clubs. Students are provided with a college student mentor. Through participation in SLD121B,C,D Leadership Through Mentoring 1,2,3, a two-credit academic course, Mentors will be trained and assisted by faculty and staff members to develop meaningful relationships with local high school and middle school students. Training occurs both in class and on site at the Boys & Girls clubs.

**Library Services**  
503.399.5043 (Salem Campus)  
503.316.3238 (Yamhill Valley Campus)  
library.chemeketa.edu

Chemeketa Community College libraries provide a full range of services to support teaching and learning. Both the Salem and Yamhill Valley Campuses offer an extensive online collection of journals, books, and streaming media, making it easy to complete your studies whenever and wherever it is convenient for you.

Chemeketa’s library is a member of the Chemeketa Cooperative Regional Library Service (CCRLS) and the Orbis Cascade Alliance. Material from regional libraries can be requested online and delivered to one of our four pick-up sites. Our diverse main collection on the Salem Campus includes 65,000 books, thousands of magazines and journals, instructional media, Spanish and adult literacy materials, graphic novels, and children’s books. These materials are also requestable.

Some of our most popular services include:

- Textbook Lending Library
- FREE Checkout of material
• Wireless internet access and wireless printing
• Computers, laptops, and calculators
• Printing and copying
• Quiet study and group work space
• Daily delivery of material from regional libraries and beyond
• New York Times Online

Chemeketa's librarians are available to help students with assignments and research. Reference service is available in person, over the phone, and via chat. Chat reference is available 24/7 from the library website. Course-specific research guides are also available to help students navigate our resources.

A valid student ID/library card is required for use of the computers and to check out material. Our library website provides detailed information about library hours and offers resources for finding books and articles, and requesting and renewing items. Check us out.

Lost and Found
503.399.5023 publicsafety@chemeketa.edu

Lost and found items are housed in the Public Safety Office on the Salem Campus and at the information desk at most other college centers and campuses. If you have lost or found an item, please check at one of these locations. Items are donated or purged at the end of each term.

Mentor Program
503.315.4293

The TRiO Talent Search and Mentor Program gives Chemeketa students the opportunity to participate in important community service learning while earning college credits. By taking the SLD121A TRiO Mentoring class, student mentors are trained to assist TRiO middle and high school students to successfully navigate their paths to college.

Multicultural Student Services Team (MSS)
503.399.5143

The Multicultural Student Services Team plans events, which increase cultural awareness throughout the campus community. Team members are dedicated to supporting and honoring the many cultures on campus. In addition, to event planning, MSS team members are responsible for maintaining the Multicultural Center facilities and coordinating ongoing projects with the assistance of Student Retention & College Life staff.

Along the way team members develop pride in their cultural heritage with the global community, learn leadership and professional skills, and effect change on issues currently impacting the campus community. For more information, contact Linda Ringo-Reyna at 503.399.5143 or linda.ringo.reyna@chemeketa.edu

Parking on the Salem Campus
503.399.5023 publicsafety@chemeketa.edu

If you park a vehicle on the Salem Campus from 8 am–10 pm, Monday through Friday, the college requires a parking permit on the vehicle. Parking permits may be purchased through My Chemeketa or at Public Safety in Building 2, Room 173. Students and employees may purchase individual term permits or an annual parking permit (fall term through summer term). After initial purchase of an annual permit, additional annual permits may be purchased for a reduced fee for any vehicle registered to the original annual permit purchaser. Permits are assigned to a specific vehicle and must be attached to the exterior of the vehicle, either on the rear bumper or rear window. Visitors may obtain free parking permits at the Information Booth or Public Safety Office. Employees of the college and students are not allowed to use visitor permits. The Oregon Motor Vehicle Code is enforceable on campus by Chemeketa Public Safety Officers. The College expects employees and students to know and follow the rules for operating and parking a vehicle on Chemeketa properties. The College suggests you lock your car at all times when on campus and not leave personal items of value in plain view inside your vehicle. More information about campus safety is contained in an annual report available from the Public Safety Office: 503.399.5023 or publicsafety@chemeketa.edu.

Electric Vehicles

Chemeketa now has Electric Vehicle (EV) Charging Stations, currently located on the Salem and Yamhill Campuses. All stations are level 2, 208/240V chargers, and utilize the North American standard SAE J1772 connector. These stations are owned and operated by the College and require a unique access card which can be purchased through the Facilities Department. Charging access rights are granted on a yearly basis starting at the beginning of Fall Term. A new card must be purchased Fall Term of the following year and the old card returned if continued charging is desired. The purchase price of the card is fixed and will not be prorated based on time of purchase.

Peer Assistants
503.399.5120
peers@chemeketa.edu

Peer Assistants are experienced Chemeketa students who are trained to help others. They provide information and referrals, locate resources, and assist students to use the services within the Advising, Counseling, Career Center services, and Information Center.
Peer Assistants are paid an hourly rate, tuition waiver, or through Federal Work Study.

Public Bus Services

Local bus service to the Salem Campus is available through Cherriots. Carts and Wheels provide transportation to the campus from Woodburn, Silverton and Dallas. If you are attending classes at one of the other Chemeketa location, please contact their staff to find out what local transportation options are available to you.

For more information on all routes and schedules in the Salem area and Carts, contact Salem Area Transit Information Office (Cherriots) at 503.588.2877 or visit their website: www.cherriots.org

Cherriots and Carts passes are available for purchase at the Bookstore in Building 1 on the Salem Campus.

Student Ambassadors

503.399.5000
getstarted@chemeketa.edu

Student Ambassadors conduct campus tours and provide assistance to students through personal contact and correspondence. They are involved in recruitment, admissions, promotional and special events, and high school visitations.

Student Ambassadors are paid an hourly rate, tuition waiver, or through Federal Work Study.

Student Clubs and Organizations

503.399.5185 or 503.399.5116
asc@chemeketa.edu

Chemeketa Community College supports a number of student organizations that provide a variety of activities for students and community members. For the list of current clubs at Chemeketa, visit the web site at go.chemeketa.edu/clubs, or contact the Office of Student Retention and College Life in Building 2 on the Salem Campus.

Student Leadership Opportunities

Are you looking for ways to meet educational and living expenses, or a valuable experience as part of your education? Chemeketa offers numerous student leadership opportunities to get involved, enhance your education, and gain experience in a real-world work setting. In addition, you will benefit from the following:

- Additional financial resources
- Valuable work experience for your resumé
- Reduced necessity for student loans
- Networking with professionals
- Practical career-related experiences
- Enhanced fundamental work skills
- Development of a sense of community and involvement

For more information, please visit collegelife.chemeketa.edu.

Student Parent Resource Center

503.365.4603
go.chemeketa.edu/steps

The Chemeketa Student Parent Resource Center offers a supportive environment for all student parents and their families. Visit us in the center where we offer a study area with computers, free printing, and coffee in a family-friendly setting. The center serves as a centralized multi-purpose campus resource for student parents as part of Chemeketa STEPS (Support to Expectant & Parenting Students), our student parent program.

Chemeketa STEPS is committed to the holistic support and success of student parents college-wide. Our mission is to help students achieve their goals as effective parents while succeeding in their academic pursuits. We offer free parenting classes, parent support groups, resources for parent and child health, workforce development, financial support, childcare assistance, children’s clothing closet, and referrals to a wide range of college and community programs and services. Please visit Chemeketa STEPS in the Student Parent Resource Center located on the Salem campus in Building 2, Room 229, or call us for more information at 503.365.4603.
Student Retention Assistants
503.399.5116
collegelife@chemeketa.edu
The Student Retention Assistants learn clerical skills on the job and work on the retention related activities to improve student success outcomes. They assist in the Student Retention and College Life's department reception area with delivering exceptional customer service, scheduling, answering phones, replying to emails, postings, Textbook Lending Library, Chemeketa Food Pantry, and the Book Exchange. Members of this team also help with traditional fundraisers and contribute ideas for new fundraisers to bring in donations for the Chemeketa Food Pantry.

Textbook Lending Programs
503.399.5116 • collegelife@chemeketa.edu
503.399.5043 • library@chemeketa.edu
There are a variety of programs available for students to borrow textbooks for no cost. The College Life (CL) collection allows students to borrow a textbook for the entire term, on a first-come-first-served basis. Students can request to pick up these items at the following locations: Salem Campus Library, Yamhill Valley Campus Library, Polk Center, & the Woodburn Public Library. To learn more about eligibility requirements visit: go.chemeketa.edu/affordablebooks. Library Reserves offers free access to textbooks and materials provided by instructors for use in the Library. Textbook collections are available for other programs (Academic Development (AD) & TRIO. Ask in the library for more information.

Where to Eat on the Salem Campus
Food Central, Building 2—Commons Area. Open Monday–Friday, 7:30 am–2 pm, our six-station food court offers something tasty for everyone, from hot entrees, burgers and sandwiches off the grill, to healthy wraps, soups and salads and a variety of convenient grab-n-go items.
Espresso & Smoothies, Building 2—Commons Area. Open early mornings and late evenings to help you get going or to pick you up with your favorite espresso drink. Gourmet coffees, teas, pastries and smoothies, made with 100% natural berry syrups, are also available.
Sandwiches & Pizza, Building 2—Commons Area. Offering made to order hot or cold sub sandwiches and pizza by the slice or by the pie. Open extended hours.
Convenience Store, Building 2—The C-Store carries a wide variety of snacks, candy, hot box foods, fresh fruit, grab-n-go items, pastries, and beverages. Open Saturdays.
Café Eight, Building 8—Offering espresso drinks, gourmet coffees & teas, juices and a good variety of convenient and healthy grab-n-go items such as salads, sandwiches, fruits and veggies, wraps and specialty desserts.
Blue Moon Café, Building 48—Providing gourmet sandwiches, salad bar, soups, pastries, assorted beverages and a full espresso bar, along with convenient snacks and sundry items.
Catering—Contact Chemeketa Event Services, 503.399.6444 for all campus and outreach location catering needs including lunches, dinners, snacks, coffee services, etc.

Advising and Counseling Services
Polk Center 503.623.5567
Salem Campus 503.399.5120
Woodburn Center 503.981.8820
Yamhill Valley Campus 503.472.9482
advising@chemeketa.edu
Advising and Counseling Services assist students with academic, career and life transitions, including career planning, education plans, and personal support to navigate barriers to academic success.

Academic Advising
Chemeketa has academic advisors throughout the district. Academic advisors assist with interpreting placement test results, transitioning to a four-year university or college, developing educational plans, selecting and registering for classes, and understanding college procedures.

All new, first-year, degree- or certificate-seeking students are required to meet with an academic advisor until they successfully complete 30 or more Chemeketa credits, (100 level or higher) excluding College Credit Now, and have an educational plan on file. Academic advisors are assigned to students based upon their program interest. Counselors work with undecided students to assist in determining a student’s academic program of study.

Career Counseling and Career Planning Classes
Career counselors and career planning courses assist students in choosing or changing careers by helping students gain a better understanding of their interests,
values and skills, relating those characteristics to a wide variety of careers, finding accurate information about occupations and labor market trends, and developing a personal plan of action.

**Counseling Services**
Counselors are available for free, confidential, short-term counseling services to currently enrolled Chemeketa students for career exploration, research, decision making and planning; personal counseling and support; academic counseling, and to assist students in finding community resources to address barriers to their success.

**Services to the Community**

**AgriBusiness Management Non-Credit Program**
503.399.5089 or 503.589.7759
go.chemeketa.edu/agriculture

The AgriBusiness Management Program at Chemeketa Community College focuses on the basic principles of agricultural recordkeeping and financial management. These non-credit courses provide agricultural business education for owners, family members and key personnel, including:

- Use of recordkeeping software
- Use of spreadsheet software
- Setting goals
- Staying informed about business and farming regulations
- Understanding cost of production
- Market fluctuations
- Interpreting and learning agricultural policy
- Succession planning and resolving family transition issues
- Payroll and employee issues
- Emerging and advancing technology.

The major emphasis is on the development and maintenance of a complete set of records and the skills necessary to interpret the records and use the information to make sound agricultural business management decisions. The program is designed for a minimum commitment of three years, but because of ever-changing technology, policies and practices and changes in key personnel, an agricultural business may choose to enroll for numerous years.

**XAGR9800C,D,E Agribusiness Management 1**
Emphasizes setting agricultural business goals; developing a complete set of farm financial records; and analyzing those records for management decision making.

**XAGR9800F,G,H Agribusiness Management 2**
Monitors and assesses financial position of the agricultural business based upon records and analysis obtained in AgriBusiness Management 1. Explores computerized accounting and income tax management.
XAGR9800J,K,L Agribusiness Management 3
Focuses on reorganizing the agricultural business based on accumulated financial data. Further develops estate, retirement and labor management plans.

XAGR9800M,N,P Agribusiness Management 4
Applies recordkeeping skills and three years of analysis data to farm reorganization and financial management decisions. Uses year-end analysis in evaluating effectiveness of reorganization and management practices implemented during the first three years.

XAGR9800Q,R,S Agribusiness Management 5
Applies recordkeeping skills to individual businesses. Uses records in business dealings with off-campus agencies and individuals.

XAGR9800T Agricultural Educational Tour
International and domestic tours “to someplace in the world”. These tours showcase the world as our classroom on agricultural marketing, innovation, technology, sustainability, history and research. The program has been conducting annual Agricultural Educational Tours for over 35 years, including successful tours to Thailand, Italy, Spain, Ireland, England, Australia, and many more countries. We have also visited a dozen states to advance participants understanding of technology, marketing research and sustainability. For more information contact the program instructors at: agribusiness@chemeketa.edu

XAGR9801T Agribusiness Management Workshop
Selected topics of current importance to the agricultural community.
These classes are ideally suited for agricultural businesses of all sizes including but not limited to:
- Grass Seed/Seeds/Grains
- Nursery and Horticulture
- Vineyard and Wineries
- Orchard Crops
- Livestock/Dairies
- Value Added/Community Ag
- Vegetable Producers
- Bee Keepers
For more information, call 503.399.5089 or 503.589.7759.

Community Agriculture Classes
503.399.5139
Chemeketa offers non-credit classes to meet the continuing educational needs of persons involved in agriculture with an emphasis on pesticide license examination preparation and recertification.
The program strives to be relevant and responsive to the agricultural community by adjusting course offerings regularly. Suggestions are welcome.

Chemeketa Center for Business & Industry
503.399.5181 / 503.399.5088
ccbi.chemeketa.edu
The Chemeketa Center for Business & Industry (CCBI) is located at 626 High St. NE, Salem. The facility provides an auditorium that seats 84, nine conference/meeting rooms that can seat from 4 to 130 and a computer lab with desktop computers. These rooms have wireless Internet and are available to rent for workshops, meetings, or special events. CCBI trains and counsels over 9,000 employees and business owners each year. Ongoing professional development pays dividends through improved employee job performance. Individuals can choose from regularly scheduled workshops or employers can arrange for a training to be delivered at CCBI or at their workplace. Some of the specific services available to the community include:

Chemeketa Small Business Development Center (SBCD) Suite 210 • 503.399.5088
The SBDC provides services for every stage of your business whether you are planning a new business, launching, expanding, renewing or moving on, the SBDC provides education and coaching services to all entrepreneurs. Areas of assistance include, but are not limited, to pre-venture feasibility, business plan development, strategic planning, financial analysis, personnel and organization issues, financing, and marketing. Advising is confidential and provided at no cost by a team of skilled professionals or business experts.
Specials programs are also included in the mix of SBDC’s offerings:
- The Small Business Management (SBM) program is a unique combination of classroom learning, one-on-one coaching from a professional business adviser, and networking with one goal: making you and your business successful. Over a nine-month period each year, you will learn about relevant management topics and meet regularly with your business adviser to help you identify and prioritize outcomes and develop a plan to achieve them.
You will benefit from monthly classroom sessions by learning from seasoned professionals and your successful small business peers. You will learn how to take the material from the classroom and apply it directly to your business. Work Smarter, Not Harder. For more information visit: sbm.chemeketa.edu.

- The **Mastermind Group** provides the peer-to-peer advisory members the opportunity to confidentially discuss strategic issues, challenges and opportunities your business faces with trained facilitators. This group meets once a month for three hours with a dynamic team of established non-competing business owners acting as an external board of directors for each other.

- The **E-Ship (Entrepreneurship)** online courses offer an opportunity for business owners in all stages of business to earn college credit taking courses that use their own business idea or existing business as their case study. Courses include evaluation of business skills and acumen to successfully operate an entrepreneurial venture, developing a business plan, and financial management. For more information visit: learning.chemeketa.edu/catalog/ent/.

- The **EDGE Business Accelerator Program** is located on the third floor of CCBI. Join a cohort of other business owners in a supportive and encouraging environment. Participants in the program receive business advising that is pertinent to their success, Class A office space, shredding services, internet access, and other amenities. There is an application process and a monthly fee. For more information visit: edge.chemeketa.edu.

For more information, visit sbdc.chemeketa.edu or call the Small Business Development Center at 503.399.5088.

**Customized Training**

503.399.5181

Workforce solutions for business and industry through consulting and training. Clients include industry sectors, businesses, organizations and government agencies. Trainings are delivered at a convenient location, date and time. Through statewide and regional networks, the Chemeketa Center for Business and Industry has access to a wide variety of trainers. Classes are customized to meet the needs of employers.

Services include:

- **Employee Skill Development**—A broad array of employee and organizational development trainings are available, including, but not limited to, customer service, business writing, presentation training, leadership, supervision, safety, continuous process improvement, and project management. Trainings are tailored to meet employer needs.

- **Computer Training**—The state-of-the-art computer lab operates with 22 student stations and an instruction station. The lab is equipped with Internet access, Microsoft Office and QuickBooks. The facility is also appropriate for a range of workshops and business activities, including, but not limited to, testing, software demonstrations, and business writing workshops.

- **Non-credit Certifications**—See page 70 for a list of certifications.

For more information visit ccbi.chemeketa.edu or call 503.399.5181.

**Chemeketa Cooperative Regional Library Service**

503.399.5165 • www.ccrls.org

The college library is part of the Chemeketa Cooperative Regional Library Service (CCRLS), along with 17 public libraries in the college district. This cooperative, tax-supported effort provides support to member libraries and library service to district residents who have no access to a local library. Member libraries share their resources and honor most library cards issued by other member libraries. CCRLS also provides material delivery between libraries.

An automated, online catalog listing over 725,000 titles found in CCRLS libraries is available in each library. Patrons can search by author, title or subject to find materials in any member libraries. The catalog can be accessed from the Internet at catalog.ccrls.org.

**Community Education Classes**

503.399.4949

Chemeketa offers a variety of community education classes throughout the district. These non-credit, personal enrichment and professional development classes vary in length from two hours to ten weeks. Classes start throughout the term and are offered during daytime, evening, and weekend hours. Topics include art, computer skills, dance, fitness, foreign language, health, music, continuing education, travel, writing, and more.

For a listing of current Community Education classes, look in Chemeketa’s quarterly Schedule of Classes, Community Education Class publication, and on the college web site at go.chemeketa.edu/communityed. To have a Community Education Class publication mailed to you, call 503.399.4949.

The Community Education Department is always interested in ideas for new classes and potential instructors who have teaching experience, enthusiasm, and a desire to share knowledge. Please call 503.399.4949, or email ceinfo@chemeketa.edu.
Community Locations

Committed to lifelong learning, the college schedules a wide variety of credit, non-credit, and community education classes, which meet during the day, evening and on weekends throughout the college district. These include college transfer courses; career and technical education and job skill-upgrading classes; and personal enrichment classes in arts and crafts, fitness, language, computer skills, and other topics. In response to community requests, college staff are willing to develop and schedule other classes.

Chemeketa’s locations in Yamhill Valley, Polk County (Dallas), and Woodburn also provide Adult Basic Education, General Educational Development (GED) test preparation, English for Speakers of Other Languages (ESOL), and High School Completion programs.

In addition to classes, the community locations above provide these services:

- Academic advising, program planning, and course selection guidance;
- Career counseling;
- Information on financial aid and on veterans’ benefits;
- GED, placement, and interest testing;
- Employment and training services for businesses and job seekers.

The Gretchen Schuette Art Gallery
503.399.2533

The Gretchen Schuette Art Gallery is located on the Salem Campus, Building 3, Room 122. The charge of the gallery is to introduce contemporary art to our students and community. The gallery presents free, regularly changing, juried shows that feature professional artists working in a wide range of subject and media. A special exhibit of student work is presented at the end of each academic year and a faculty show is mounted biennially. In the summer the gallery hosts an artist in residence program, with an associated gallery show later in the year. The beautiful and welcoming space of the gallery is also home to poetry readings and round table discussions organized within the college community. To learn about the current exhibit, check gallery hours or survey the upcoming season, go to https://www.chemeketa.edu/programs-classes/program-finder/art/gretchen-schuette-art-gallery or call 503.399.2533.

Planetarium
503.399.5200 or 503.399.5246
Salem Campus, Building 2, Room 171

Chemeketa’s Planetarium presents museum-quality sky shows Friday evenings in fall, winter, and spring terms. The planetarium also features a Spitz model 512 sky instrument that projects 2,500 stars, five planets, the sun, moon, and sky coordinated on a 35-foot dome. The projector can project the sky for any date — past, present or future — as seen from any location on earth. Come explore the skies with a show and accompanying star talk.

Admission is $5, with special rates for students. Call to arrange group showings at other times for schools, clubs, and organizations.
Degrees, Certificates, and Transfer Information
Associate Transfer Degrees and Oregon Transfer Module

Graduates of Chemeketa’s two-year programs are awarded an Associate of Arts Oregon Transfer (AAOT) degree, an Associate of Science-Business (AS/OT-BUS) transfer degree, an Associate of Science-Computer Science (AS/OT-CS) transfer degree, an Associate of Applied Science (AAS) degree, an Associate of Science (AS) degree, or an Associate of General Studies (AGS) degree. All are nationally recognized degrees.

Oregon Transfer Module

The Oregon Transfer Module is comprised of one year of coursework exclusively in general education, which can lead to 1) an AAOT, AS/OT-BUS, or AS/OT-CS transfer degree from Chemeketa or to 2) a baccalaureate degree from Oregon public universities and will result in sophomore standing.

To earn the module, which is equivalent to three academic quarters or 45 credits, you must select from the list of approved courses on page 57. You must earn a grade of “C-” or better in all courses and have a minimum cumulative GPA of 2.00 to complete the module. Upon transfer, the receiving institution may specify additional general education coursework that will be required for your major or ask you to make up the difference between the transfer module and the institution’s total general education requirements.

If you intend to transfer to a specific Oregon university, contact an advisor who will work with you to ensure that you meet the specific requirements at the receiving school.

Associate of Arts Oregon Transfer degree

The Associate of Arts Oregon Transfer (AAOT) degree is the core curriculum of a liberal arts education. This curriculum includes coursework in foundational and discipline studies areas. You will be taking courses in writing, communication, mathematics, social sciences, and art and letters, among others. In addition, you are encouraged to explore a broad range of subjects through elective coursework. Note that in most areas, courses—not credits are required to meet the degree (90 credit hours total). You must earn a grade of “C-” or better in all courses and have a minimum cumulative GPA of 2.00 to earn the degree. Contact a college advisor for more information.

Students who earn an AAOT degree from Chemeketa have fulfilled the lower division general education requirements at any of Oregon’s public four-year universities. If you enroll full-time, it usually takes two years to meet the AAOT requirements.

Students must complete at least one course meeting the state criteria:

- **Information Literacy**—this content is embedded in the Writing requirements of the degree.
- **Cultural Literacy**—this requirement is met by taking one course in the area of discipline studies that is designated as meeting the statewide requirement. At Chemeketa, cultural literacy is called Difference, Power, and Responsibility, and courses that address this content area are available in the arts and letters and social science areas (see the AAOT guide on page 58 for Cultural Literacy courses).

See the program guide on pages 50 to 53 for a complete list of our transfer programs. Information and curriculum guidelines begin on page 71.

Associate of Science/Oregon Transfer—Business degree

Associate of Science/Oregon Transfer—Computer Science degree

The Associate of Science/Oregon Transfer-Business degree and the Associate of Science/Oregon Transfer-Computer Science degree are focused academic programs that provide you with marketable degrees and keep open your options for transfer to a baccalaureate program. By earning either of these degrees from Chemeketa, you will have fulfilled the lower division general education requirements at any of Oregon’s public four-year universities to which you choose to transfer, as well as the ability to register as a junior. Recipients of this degree, however, are not guaranteed admission to the business school/computer science school/program of choice; that is ultimately up to the institution to which you apply. To qualify for either of these degrees, you must meet the requirements listed on pages 60 and 62.

Associate Degrees and Certificates

Associate of Science degree

The Associate of Science (AS) degree is designed for students who plan to transfer and complete a Bachelor of Science degree at a four-year college or university. The degree includes a core of general education courses and electives that allow you to tailor your course of studies to meet particular college transfer requirements. It does not guarantee that you will have completed all lower division general education requirements for the baccalaureate degree, nor does it ensure junior-level status at a four-year state university.

If you select this degree, you are encouraged to consult with an advisor to determine which courses will best
align with the general education requirements at the four-year institution to which you intend to transfer. To qualify for the degree, you must meet the requirements listed on page 65.

**Associate of Applied Science degree**

Chemeketa, with its emphasis on career and technical education, offers preparation in more than 50 occupational areas. In most of these programs, you may earn an Associate of Applied Science (AAS) degree. If you enroll full-time, it usually takes about two years to meet the Associate of Applied Science degree requirements. See the program guide on pages 50 to 53 for a complete list of Associate of Applied Science degree programs. Information and curriculum outlines for these programs begin on page 71.

To qualify for an Associate of Applied Science degree, you must meet the requirements listed on page 64.

**Associate of General Studies degree**

The Associate of General Studies (AGS) degree addresses the needs of students who are not seeking an Associate of Arts Oregon Transfer degree or the specific program requirements of an Associate of Applied Science degree. This degree allows you to combine a broad core of basic courses with a program of study that may be tailored to your academic or professional goals. You may wish to use this degree to enhance your employment or to fulfill the requirements of a specific four-year college program or special program of study.

To qualify for the Associate of General Studies degree, you must meet the requirements listed on page 66.

**Certificate of Completion**

You will receive a Certificate of Completion if you meet the requirements of certain one-year or less-than-one-year career and technical education programs. See the program guide on pages 50 to 53 for a complete list of Certificate of Completion programs. Information and curriculum outlines for these programs begin on page 71.

You may earn a Certificate of Completion by meeting these requirements:

- Satisfactorily complete the required courses or credit hours listed for each program.
- Earn a minimum cumulative grade point average of 2.00.
- Complete a minimum of 15 credit hours at Chemeketa.
- Apply courses numbered 050 or higher toward a certificate.

Some of these certificates are included in part of a larger two-year degree, creating a pathway for you to work, go to school, and advance in your career field. Ask your program advisor or college counselor for more information on which courses can apply to other certificates or degrees in your chosen field of study.

**Related Instruction**

Courses in related instruction connect and strengthen the knowledge and skills acquired in Certificates of Completion and two-year Associate of Applied Science degrees. All students enrolled in career and technical education areas are required to complete courses in college-level related instruction, specifically:

- Communication/writing
- Computation/mathematics
- Human relations/psychology/sociology

Refer to your program area to learn of the specific requirements for individual certificates and degrees. In some programs, approved course substitutions are specifically noted.

**Second Degree**

To earn a second degree, certificate or diploma, students must meet any additional requirements stated in the catalog. Courses previously taken may qualify to meet a second degree or certificate.

**Digital Literacy**

Students enrolled in an Associate of Science, Associate of Applied Science, or an Associate of General Studies degree program will need to meet a digital literacy requirement. The purpose of the requirement is for the student to be able to use digital technology, communication tools, and networks to create, access, analyze, evaluate, and communicate information to successfully enter the workforce or the university setting.

**Outcomes:**

a. Demonstrate critical thinking skills and employ correct terminology to effectively, and productively use technology to communicate, collaborate, contribute, and solve problems in the workplace and our digital society.

b. Understand how electronic devices process information and how they network with other devices for communication and for locating, sharing, and sorting information.

c. Recognize the human responsibility of interpreting and evaluating the reliability of information gained via technology-related sources.

d. Use a variety of application and devices, confidently transfer skills among applications and devices, and apply an understanding of how the rapidly changing technology environment affects workplace and other decisions.
e. Apply critical thinking skills to decisions regarding ethics, environmental/societal responsibility, and safety/security/privacy issues associated with the use of technology in the digital world.

Graduation
503.399.6588
graduation@chemeketa.edu

As a student, you are responsible for fulfilling the requirements for graduation. You should work with your advisor to ensure you complete these requirements.

As a candidate for graduation, fill out an Application for a Certificate or Degree form. Return the form to Graduation Services by the fourth week of the academic term before the term in which you will complete the program requirements. Dates for when applications for graduation are due are listed in the calendar published each term in the Schedule of Classes.

Degrees and certificates become official when graduation information is recorded on your transcript.

If you plan to complete the requirements for your degree summer term, you are eligible to participate in the graduation ceremony held the preceding June.

If your course of study extends beyond five years or is interrupted by two years or more, graduation requirements may have changed. In order to meet the new graduation requirements, you should meet with an academic or program advisor.

Chemeketa offers the Associate of Science/Oregon Transfer degree in Business and Computer Science for students who wish to transfer to one of those programs at any of Oregon’s public universities.

Collaborative Bachelor’s Degrees
Chemeketa has lower level courses for many of the colleges and universities in the area that offer bachelor’s and master’s degrees in Salem. Most classes are held during evenings, on weekends or via distance education. For more information on these programs, contact advisors at the colleges or universities below:

- Portland State University
  800.547.8887
- Linfield College
  800.452.4176
- Oregon State University
  800.291.4192
- George Fox University
  888.888.0178
- Corban University
  503.589.8195
- Western Oregon University
  877.877.1593

Curriculum Requirements
go.chemeketa.edu/counseling

Advising and Counseling Services has advising guides specific to Oregon’s four-year public universities. These institutions include Eastern Oregon University, Oregon Institute of Technology, Oregon State University, Portland State University, Southern Oregon University, University of Oregon and Western Oregon University. Additionally, the center has advising guides for programs offered at George Fox University, Linfield College, Oregon Health and Sciences University, Pacific University, Corban University, University of Western States, Willamette University, and the University of Portland.
Certificates, Two-year Degrees and Transfer Guide

Below is a quick-reference listing of the programs of study and transfer course categories available at Chemeketa. If you don’t find the program or course you are looking for, check the Index in the back of this catalog. For more information about any of the programs listed in this guide, check the page referenced in the program section of the catalog, or call Counseling and Career Services at 503.399.5120.

Certificate—Certificate of Completion
AAS—Associate of Applied Science degree
Transfer—Courses that transfer to four-year institutions
Limited—Enrollment is limited by program size and/or requirements
Addl Qual—Additional qualifications are required for admission to the program (for example, criminal background check, immunizations, employment)

Note: Students applying to any certificate or degree program must take the college placement tests and meet with Advising and First-Year programs or a program advisor to complete the admissions process.

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<th>General Degrees</th>
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**Business and Management**

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| Wine Hospitality Operations |  ✔  |  |  |  | 144 |

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<td></td>
<td>94</td>
</tr>
<tr>
<td>Drafting Technology–CAD Programs</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>103</td>
</tr>
<tr>
<td>• Architectural Drafting</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>103</td>
</tr>
<tr>
<td>• Computer-Assisted Drafting (CAD)</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>103</td>
</tr>
<tr>
<td>Electronics Technologies Programs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Electronic Engineering Technician</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>109</td>
</tr>
<tr>
<td>• Electronics</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>109</td>
</tr>
<tr>
<td>• Industrial Electronics</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>110</td>
</tr>
<tr>
<td>• Renewable Energy Management</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>111</td>
</tr>
<tr>
<td>Machining Technology Programs</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>127</td>
</tr>
<tr>
<td>• Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM)</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>128</td>
</tr>
<tr>
<td>• Computer-Aided Manufacturing (CAM) Fundamentals</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>127</td>
</tr>
<tr>
<td>• Computer Numerically Controlled (CNC) Operator</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>128</td>
</tr>
<tr>
<td>Robotics Program</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>136</td>
</tr>
<tr>
<td>Welding Programs</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>142</td>
</tr>
<tr>
<td>• Arc Welding</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>142</td>
</tr>
<tr>
<td>• MIG Welding</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>142</td>
</tr>
<tr>
<td><strong>Other Programs</strong></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Adult Basic Education</td>
<td></td>
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</tr>
<tr>
<td>Adult High School Diploma</td>
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<td></td>
<td>31</td>
</tr>
<tr>
<td>College Assistance Migrant Program (CAMP)</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Early College High School</td>
<td></td>
<td></td>
<td></td>
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<td>32</td>
</tr>
<tr>
<td>English as a Non-Native Language</td>
<td></td>
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</tr>
<tr>
<td>English for Speakers of Other Languages</td>
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<tr>
<td>General Educational Development (GED)</td>
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<tr>
<td>GED Options</td>
<td>✓</td>
<td></td>
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<tr>
<td>High School Equivalency Program (HEP)</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td>33</td>
</tr>
<tr>
<td>Occupational Skills Training</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>133</td>
</tr>
<tr>
<td>Winema</td>
<td></td>
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<tr>
<td>Personal Enrichment</td>
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<tr>
<td>Non-degree seeking for 18 years and older</td>
<td></td>
<td></td>
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<td></td>
<td>43</td>
</tr>
</tbody>
</table>
General Education

Purpose
When you are in college, it can be difficult to see the value of taking classes in disciplines other than your program of study. The purpose of general education requirements is to ensure that every Chemeketa graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. These requirements provide for breadth across the humanities and arts, social studies, and natural sciences; competence in communication and critical thinking; analytical skills to enhance and promote problem solving; and investigation of the issues raised by living in a culturally diverse society. Your Chemeketa educational experience includes a core of intellectual and practical skills, basic knowledge of human cultures and the physical world (and, importantly, the strategies used to understand these topics), and tools intended to contribute to a sense of personal and social responsibility. The work you do in your program and to complete your degree also helps you to learn what you need to know not just for making a living, but also for making a life.

Outcomes
Outcomes in general education communicate the knowledge, skills and abilities required to equip students to make responsible contributions to society. Outcomes and criteria were adopted throughout Oregon colleges and universities to guide the purposes and types of courses that comprise general education. Chemeketa endorses these outcomes and seeks to ensure that through regular and systematic assessment, students who complete their program of study are academically prepared for their next educational experience. General education courses are transferable to any of Oregon’s public colleges and universities.

As a result of taking general education courses, a student should be able to:

In Arts and Letters
- Interpret and engage in the Arts and Letters, making use of the creative process to enrich the quality of life; and
- Critically analyze values and ethics within a range of human experience and expression to engage more fully in local and global issues.
In Mathematics
• Use appropriate mathematics to solve problems; and
• Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate and communicate the results.

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

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

In Speech/Oral Communication
• Engage in ethical communication processes that accomplish goals;
• Respond to the needs of diverse audiences and contexts; and
• Build and manage relationships.

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

In Cultural Literacy (included in courses that meet the outcomes of Discipline Studies)
• Identify and analyze complex practices, values and beliefs and the culturally and historically defined meanings of difference.

In Information Literacy (included in Writing Foundational requirements)
• Formulate a problem statement;
• Determine the nature and extent of the information needed to address the problem;
• Access relevant information effectively and efficiently;
• Evaluate information and its source critically; and
• Understand many of the economic, legal, and social issues surrounding the use of information

Cultural Literacy
At Chemeketa, the goal of Difference, Power, and Responsibility (also called cultural literacy) courses is to provide a framework within which you can develop an awareness of issues of difference and power in order to participate responsibly within a democratic society. You will find that course content related to cultural literacy is a part of many courses, but is primarily embedded in the arts and letters and social sciences. You will need to take one DPR-designated/cultural literacy course to fulfill the requirements of the AAOT degree. See page 58 for identified cultural literacy requirements in the AAOT degree.

Information Literacy
Information literacy content is embedded in the college writing courses required for the AAOT degree. As a result of taking WR121, 122 and/or 227, you will gain the ability to determine the type of information needed to address a problem, access relevant information efficiently, evaluate its source critically and use the needed information effectively. See page 248 for descriptions of the writing courses.
Oregon Transfer Compass

Core Transfer Maps

The Core Transfer Maps are broad descriptions of course requirements for students at any Oregon community college or public university. Students who have not yet declared a major and plan to transfer may take classes that fit these categories at requirements for a bachelor's degree at any Oregon public university.

Note that many majors have specific course requirements for categories within the Core Transfer Maps. The Core Transfer Maps are intended as starting points for students who plan to transfer to a university, but are unsure of their intended major or transfer destination. Students who are certain of their major, but not their transfer destination, should determine if there is a developed Major Transfer Map for their chosen discipline, and follow that as a guide. Students who are certain of both their major and their intended transfer destination should consult an advisor for information on an existing specific articulation agreement, Major Transfer Map, or degree map that will prescribe their course requirements.

Course Distribution Requirements

See an advisor for recommended courses

<table>
<thead>
<tr>
<th>Subject</th>
<th>General Core Transfer Map</th>
<th>STEM Core Transfer Map</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing</td>
<td>WR121 (3–4 credits)</td>
<td>WR121 (3–4 credits)</td>
</tr>
<tr>
<td>Arts &amp; Letters</td>
<td>Two courses (6–8 credits)</td>
<td>2 courses (6–8 credits)</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>Two courses (6–8 credits)</td>
<td>2 courses (6–8 credits)</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Two courses (8–10 credits)</td>
<td>2 courses (8–10 credits)</td>
</tr>
<tr>
<td>Math</td>
<td>One courses (4–5 credits)</td>
<td>1 courses (4–5 credits)</td>
</tr>
</tbody>
</table>

ADDITIONAL REQUIREMENTS

<table>
<thead>
<tr>
<th>Subject</th>
<th>General Core Transfer Map</th>
<th>STEM Core Transfer Map</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cultural Literacy</td>
<td>At least one required course must also meet the Cultural Literacy outcomes.</td>
<td>At least 1 required course must also meet the Cultural Literacy outcomes.</td>
</tr>
<tr>
<td>At Least 30 Total Credits</td>
<td>If the credit total for the required courses is less than 30 credits, select a course of your choice from the AA/OT outcome courses.</td>
<td>If the credit total for the required courses is less than 30 credits, select a course of your choice from the AA/OT outcome courses.</td>
</tr>
<tr>
<td>Completion standards</td>
<td>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 of award.</td>
<td>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 of award.</td>
</tr>
</tbody>
</table>

COMPLETED CORE TRANSFER MAPS

<table>
<thead>
<tr>
<th>Subject</th>
<th>General Core Transfer Map</th>
<th>STEM Core Transfer Map</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>At least eight courses (at least 30 credits)</td>
<td>At least 8 courses (at least 30 credits)</td>
</tr>
</tbody>
</table>
# Oregon Transfer Module (OTM)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Courses</th>
<th>Courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete a minimum of 45 credits. All courses must be passed with a grade of C- or better. One course with an (IL) Information Literacy and a (CL) Cultural Literacy indicator must be completed. These must include the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>General Education Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Writing (Two courses of college transfer composition.)</td>
<td>2 courses minimum</td>
<td>WR121(IL) and either 122(IL) or 227(IL).</td>
</tr>
<tr>
<td>Math (One course of college-level mathematics for which MTH095 is a prerequisite.)</td>
<td>1 course minimum</td>
<td>MTH105 or above.</td>
</tr>
<tr>
<td>Oral Communication</td>
<td>1 course minimum</td>
<td>COMM100(CL), 111, 112, 115(CL), 130, 212, 218, 219(CL), 227(CL), 237(CL), 260(CL), 285.</td>
</tr>
<tr>
<td>Arts and Letters (The second year of a foreign language may be included, but not the first year. American Sign Language (ASL) is considered a foreign language. The course taken to meet the Oral Communication requirement above may not be used to meet this requirement.)</td>
<td>3 courses minimum</td>
<td>ART101(CL), 115, 116, 117, 120, 121, 131, 201, 204, 205, 206, 207(CL), 221, 222, 223, 224, 225, 234, 237, 238, 240, 247, 258, 261, 265, 270, 276, 281, 291, ASL111, 212, 213, COMM100(CL), 105(CL), 111, 112, 115(CL), 130, 212, 218, 219(CL), 227(CL), 237(CL), 260(CL), 285. ENG100, 104, 105, 106, 107(CL), 108(CL), 109(CL), 201, 202, 204(CL), 205(CL), 206(CL), 216, 220(CL), 245(CL), 250, 253(CL), 254(CL), 260, 261, 269(CL). FA255, 256, 257. FR201, 202, 203. HUM104, 120(CL), 220(CL), 225(CL). JNL224, 225, 227, 228. JPN120, 201, 202, 203. LING210. MUS111, 112, 113, 161. PHL201, 203, 204, 205(CL), 206(CL). REL160(CL), 201, 202, 203(CL). RUS201, 202, 203. SPN201, 202, 203, 214, 215, 216, 250, 251. TA110(CL), 141, 142, 242. WR240, 241, 242, 243, 244, 250, 262.</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>3 courses minimum</td>
<td>ATH101(CL), 102(CL), 103(CL). CLA201, 202, 203. EC200, 201, 202. ED200, 229 GEG105, 106(CL), 107(CL), 140, 190, 201, 202, 206, 207, 220. HST104, 105, 106, 157, 201(CL), 202(CL), 203(CL), 228, 237, 257(CL), 258(CL), 262(CL), 269(CL). PS201, 202, 203, 205, 250. PSY101, 201, 202(CL), 213, 218(CL), 234(CL), 237, 239, 280(CL). SOC204(CL), 205(CL), 206(CL), 210(CL), 213(CL), 221, 223(CL), 224(CL), 227(CL), 232(CL). WS101(CL), 102(CL).</td>
</tr>
<tr>
<td>Science/Math/Computer Science (Three courses, including at least one biological or physical science with a lab.) When choosing courses in science and mathematics, students and advisors should check the specific requirements at receiving schools. Courses that include a laboratory component, or that deal with specific subjects, may be required for majors or degrees.)</td>
<td>3 courses minimum</td>
<td>Choose at least 1 course from the below list (must have a lab): BI101, 102, 103, 131, 132, 133, 143, 153, 211, 212, 213, 230, 231, 232, 233, 234. CH104, 105, 106, 110, 114, 115, 116, 117, 121, 122, 123, 201, 202, 221, 222, 223. GEO142, 143, 144, 201, 202, 203. GS104, 105, 106, 107, 141, 142, 143. PH201, 202, 203, 207, 208, 209, 211, 212, 213. Choose additional courses from the list above or below: CIS233J, 234J. CS160, 161, 162, 233U, 260, 271, 290 MTH105 or above.</td>
</tr>
<tr>
<td>Electives (Complete additional courses to bring the total number of credits to 45.)</td>
<td>Courses must be from the Arts and Letters, Social Science, or Science/Math/Computer Science subject areas.</td>
<td></td>
</tr>
</tbody>
</table>

### Notes:

1. Each course must be worth at least 3 credits (quarter system).
2. Courses that are designed to prepare students for college-level work are not applicable to the transfer module.
3. All Oregon community colleges and Oregon University System institutions will offer students the opportunity to complete an Oregon Transfer Module and the OTM designation will be posted on the transcript by the issuing institution upon request. Regionally accredited private colleges and universities within the state are also welcome to offer and issue Transfer Modules, which will be accepted at any Oregon public college or university.
4. Oregon Transfer Module credits may not match program requirements in the receiving school. The OTM supplements, but does not supplant existing articulation agreements and does not replace effective advising.
5. Courses with the (IL) indicator fulfill the Information Literacy requirement for the AAOT. A minimum of 1 course fulfills this requirement.
6. Courses with the (CL) indicator fulfill the Cultural Literacy requirement for the AAOT. A minimum of 1 course fulfills this requirement.
## Associate of Arts Oregon Transfer (AAOT) Degree Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credits/Courses</th>
<th>Courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete a minimum of 90 credit hours with a GPA of 2.0 or higher. All foundational and discipline studies courses must be a minimum of 3 credits, except for Health/Wellness/Fitness courses which may be any number of credits. One course with an (IL) Information Literacy and a (CL) Cultural Literacy indicator must be completed. Electives may be any number of credits. All courses must be passed with a grade C- or better. Complete a minimum of 24 credit hours at Chemeketa. These must include the following:</td>
<td></td>
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<tr>
<td>Foundational Requirements</td>
<td></td>
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</tr>
<tr>
<td>Writing</td>
<td>8 credits</td>
<td>WR {121(IL) and either 122(IL) or 227(IL).}</td>
</tr>
<tr>
<td>Math</td>
<td>1 course</td>
<td>MTH 105 or above.</td>
</tr>
<tr>
<td>Oral Communication</td>
<td>1 course</td>
<td>COMM 100(CL), 105(CL), 111, 112, 115(CL), 130, 212, 218, 219(CL), 227(CL), 237(CL), 260(CL), 285.</td>
</tr>
<tr>
<td>Physical Education or Health</td>
<td>3 credits</td>
<td>Any PE 185 course (1 credit each); any HE or HPE course (3 credits each).</td>
</tr>
<tr>
<td>Discipline Studies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arts and Letters</td>
<td>3 courses</td>
<td>ART 101(CL), 115, 116, 117, 120, 121, 131, 201, 204, 205, 206, 207(CL), 211, 222, 223, 224, 225, 234, 237, 238, 240, 247, 258, 261, 265, 270, 276, 281, 291.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ASL 211, 212, 213.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>COMM 100(CL), 105(CL), 111, 112, 115(CL), 130, 212, 218, 219(CL), 227(CL), 237(CL), 260(CL), 285.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENG 100, 104, 105, 106, 107(CL), 108(CL), 109(CL), 201, 202, 204(CL), 205(CL), 206(CL), 216, 220(CL), 245(CL), 250, 253(CL), 254(CL), 260, 261, 269(CL).</td>
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<tr>
<td></td>
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<td>FA 255, 256, 257.</td>
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<tr>
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<td>FR 201, 202, 203.</td>
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<tr>
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<td></td>
<td>HUM 106, 120(CL), 220(CL), 225(CL).</td>
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<td>JNL 224, 225, 227, 228.</td>
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<td>JPN 120, 201, 202, 203.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LING 210.</td>
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<tr>
<td></td>
<td></td>
<td>MUS 111, 112, 113, 161.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHIL 201, 203, 204, 205(CL), 206(CL).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REL 160(CL), 201, 202, 203(CL).</td>
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<tr>
<td></td>
<td></td>
<td>RUS 201, 202, 203.</td>
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<tr>
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<td></td>
<td>TA 110(CL), 141, 142, 242.</td>
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<td></td>
<td>WR 240, 241, 242, 243, 244, 250, 262.</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>4 courses</td>
<td>ATH 101(CL), 102(CL), 103(CL).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CLA 201, 202, 203.</td>
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<tr>
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<td></td>
<td>EC 200, 201, 202.</td>
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<td>ED 200, 229.</td>
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<tr>
<td></td>
<td></td>
<td>GEG 105, 106(CL), 107(CL), 140, 190, 201, 202, 206, 207, 220.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HST 104, 105, 106, 157, 201(CL), 202(CL), 203(CL), 228, 237, 257(CL), 258(CL), 262(CL), 269(CL).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PS 201, 202, 203, 205, 250.</td>
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<tr>
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<td>PSY 101, 201, 202(CL), 213, 218(CL), 234(CL), 237, 239, 280(CL).</td>
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<tr>
<td></td>
<td></td>
<td>SOC 204(CL), 205(CL), 206(CL), 210(CL), 213(CL), 221, 223(CL), 224(CL), 232(CL).</td>
</tr>
<tr>
<td></td>
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<td>WS 101(CL), 102(CL).</td>
</tr>
</tbody>
</table>
**Sciences/Math/Computer Science**

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

<table>
<thead>
<tr>
<th>4 courses minimum</th>
<th>Choose three courses from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO142, 143, 144, 201, 202, 203.</td>
<td></td>
</tr>
<tr>
<td>GS104, 105, 106, 107, 141, 142, 143.</td>
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</tr>
<tr>
<td>PH201, 202, 203, 207, 208, 209, 211, 212, 213.</td>
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</tbody>
</table>

Choose a fourth course from the list above or below:

**CIS**233J, 234J.


**MTH**105 or above.

**Electives**

(Complete additional courses to bring the total number of credits to 90.)

<table>
<thead>
<tr>
<th>The following courses may be included:</th>
</tr>
</thead>
<tbody>
<tr>
<td>All lower division collegiate courses numbered 100 and above.</td>
</tr>
<tr>
<td>12 credit hours in career and technical education courses.</td>
</tr>
<tr>
<td>12 credits of cooperative work experience.</td>
</tr>
</tbody>
</table>

The following courses will NOT be included:

**BT**104, 105.

**Notes:**

1. Earn a cumulative grade point average (GPA) of 2.00 or above.
2. Complete a minimum of 24 credits at Chemeketa.
3. Two terms of the same college-level foreign language, with a grade of “C” or better, are required for admission to Oregon University System schools. This requirement applies only to students graduating from high school in 1997 or later. This requirement may also be met by completing two years of the same foreign language at the high school level. This is not a requirement for earning the Associate of Arts degree.
4. Any student having the AAOT degree recognized on an official college transcript will have meet the lower division General Education requirements of baccalaureate degree programs at any institution in the Oregon University System.
5. Students transferring under this agreement will have junior status for registration purposes. Course, class standing, or GPA requirements for specific majors, departments, or schools are not necessarily satisfied by an AAOT degree.
6. GPA admission requirements for the OUS schools are not necessarily satisfied with an AAOT degree. Please contact your school of choice for specific requirements.
7. To learn more about general education courses and their outcomes, see page 54.
8. Courses with the (IL) indicator fulfill the Information Literacy requirement for the AAOT. A minimum of 1 course fulfills this requirement.
9. Course with the (CL) indicator fulfill the Cultural Literacy requirement for the AAOT. A minimum of 1 course fulfills this requirement.
# Associate of Science/Oregon Transfer Degree in Business (ASOT-BUS)

**Requirements**

Complete a minimum of 90 credit hours. Computer Science-specific courses must be completed with a grade of C or better; all other courses must be completed with a grade of C- or better. One course with an (IL) Information Literacy and a (CL) Cultural Literacy indicator must be completed. These must include the following:

## Foundational Requirements

### Writing

(A minimum of 8 credits of college-transfer writing courses.)

<table>
<thead>
<tr>
<th>Credits/Courses</th>
<th>Courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eight credits minimum</td>
<td>WR121(IL) and either 122(IL) or 227(IL).</td>
</tr>
</tbody>
</table>

### Math

(A minimum of 3 courses for which MTH095 is a prerequisite, including one course in statistics.)

| Three courses minimum | MTH105 or above, MTH243, and one additional math course: MTH244 or MTH241 for EOU, SOU, MTH241 for OSU, WOU, UO |

### Oral Communication

(1 course in the fundamentals of speech or communication.)

| One course minimum | COMM100(CL), 105(CL), 111, 112, 115(CL), 130, 212, 218, 219(CL), 227(CL), 237(CL), 260(CL), 285. |

### Computer Applications

(Proficiency in word-processing, spreadsheet, database, and presentation software as demonstrated by successful completion of applicable courses.)

| Three credits minimum | CIS101, CIS125A, CIS125E |

## Discipline Studies

### Arts and Letters

(3 courses chosen from two or more disciplines. All foreign languages are considered one discipline. ASL is considered a foreign language. The course used to meet the Oral Communication requirement above may not be used to fulfill this requirement.)

| Three courses minimum | ART101(CL), 115, 116, 117, 120, 121, 131, 201, 204, 205, 206, 207(CL), 221, 222, 223, 224, 225, 234, 237, 238, 240, 247, 258, 261, 265, 270, 276, 281, 291, ASL211, 212, 213, COMM100(CL), 105(CL), 111, 112, 115(CL), 130, 212, 218, 219(CL), 227(CL), 237(CL), 260(CL), 285, ENG100, 104, 105, 106, 107(CL), 108(CL), 109(CL), 201, 202, 204(CL), 205(CL), 206(CL), 216, 220(CL), 245(CL), 250, 253(CL), 254(CL), 260, 261, 269(CL), FA255, 256, 257, FR201, 202, 203, HUM106, 120(CL), 220(CL), 225(CL), JNL224, 225, 227, 228, JPN120, 201, 202, 203, LING210, MUS111, 112, 113, 161, PHIL201, 203, 204, 205(CL), 206(CL), REL160(CL), 201, 202, 203(CL), RUS201, 202, 203, SPN201, 202, 203, 214, 215, 216, 250, 251, TAI101(CL), 141, 142, 242, WR240, 241, 242, 243, 244, 250, 252, 262. |

### Social Sciences

(4 courses chosen from two or more disciplines, with a minimum of 2 courses in “principles of economics” (to include microeconomics and macroeconomics) at the 200 level [EC201, EC202].)

| Four courses minimum | ATH101(CL), 102(CL), 103(CL), CLA201, 202, 203, EC200, 201, 202, ED200, 229, GEG105, 106(CL), 107(CL), 140, 190, 201, 202, 206, 207, 220, HST104, 105, 106, 157, 201(CL), 202(CL), 203(CL), 228, 237, 257(CL), 258(CL), 262(CL), 269(CL), PS201, 202, 203, 205, 205, PSY101, 201, 202(CL), 213, 218(CL), 234(CL), 237, 239, 280(CL), SOC204(CL), 205(CL), 206(CL), 210(CL), 213(CL), 221, 223(CL), 224(CL), 232(CL), WS101(CL), 102(CL). |

### Sciences/Math/Computer Science

(4 courses chosen from two or more disciplines, including at least 3 laboratory courses in biological or physical science.)

### Business-Specific Requirements
(Each course in this section must be completed with a grade of C or better.)

<table>
<thead>
<tr>
<th>Credits</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three credits</td>
<td>BA101.</td>
</tr>
<tr>
<td>Eight credits</td>
<td>BA211 and 213; or BA211, 212, and 213.</td>
</tr>
<tr>
<td>Three credits</td>
<td>BA226 or other advisor approved Business elective.</td>
</tr>
</tbody>
</table>

### Electives and/or University-Specific Prerequisites
(A maximum of 12 credit hours in career and technical education courses may be included with the exception of the following: BT104, 105; MTH052 through 095; RD080, 085, 090; SSP050A,B,C, 051; WR080, 088, 089, 090, 091.)

<table>
<thead>
<tr>
<th>Credits</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>8–14 credits</td>
<td>Depends on choice of transfer institution. See an advisor.</td>
</tr>
</tbody>
</table>

**Notes:**

1. Earn a cumulative grade point average (GPA) of 2.00 or above.
2. Complete a minimum of 24 credits at Chemeketa.
3. Two terms of the same college-level foreign language, with a grade of “C-” or better, are required for admission to Oregon University System schools. This requirement applies only to students graduating from high school in 1997 or later. This requirement may also be met by completing two years of the same foreign language at the high school level. This is not a requirement for earning the Associate of Arts degree.
4. Any student having the ASOT-Business degree recognized on an official college transcript will have meet the lower division General Education requirements of baccalaureate degree programs at any institution in the Oregon University System.
5. Students transferring under this agreement will have junior status for registration purposes. Course, class standing, or GPA requirements for specific majors, departments, or schools are not necessarily satisfied by an ASOT-Business degree.
6. GPA admission requirements for the OUS schools are not necessarily satisfied with an ASOT-Business degree. Please contact your school of choice for specific requirements.
7. To learn more about general education courses and their outcomes, see page 54.
8. Courses with the (IL) indicator fulfill the Information Literacy requirement for the ASOT-Business. A minimum of 1 course fulfills this requirement.
9. Course with the (CL) indicator fulfill the Cultural Literacy requirement for the ASOT-Business. A minimum of 1 course fulfills this requirement.
10. Electives should be taken to meet the requirements of your transfer institution. See your advisor for assistance.
## Associate of Science/Oregon Transfer Degree in Computer Science (ASOT-CS)

### Requirements

Complete a minimum of 90 credit hours. Computer Science-specific courses must be completed with a grade of C or better; all other courses must be completed with a grade of C- or better. One course with an (IL) Information Literacy and a (CL) Cultural Literacy indicator must be completed. These must include the following:

<table>
<thead>
<tr>
<th>Foundational Requirements</th>
<th>Credits/Courses</th>
<th>Courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Writing</strong></td>
<td></td>
<td>Eight credits minimum WR</td>
</tr>
<tr>
<td>(Minimum of 8 credits)</td>
<td></td>
<td>121(IL) and either 122(IL) or 227(IL).</td>
</tr>
<tr>
<td><strong>Math</strong></td>
<td></td>
<td>Two courses minimum MTH</td>
</tr>
<tr>
<td>(Most universities will expect additional math courses. Consult with an advisor to confirm you are taking the appropriate math courses.)</td>
<td></td>
<td>251 and 252</td>
</tr>
<tr>
<td><strong>Oral Communication</strong></td>
<td></td>
<td>One course minimum COMM</td>
</tr>
<tr>
<td>(Minimum of 1 course. COMM111 recommended by most schools. Consult with an advisor to confirm that you are taking the appropriate course.)</td>
<td></td>
<td>100(CL), 105(CL), 111, 112, 115(CL), 130, 212, 218, 219(CL), 227(CL), 237(CL), 260(CL), 285.</td>
</tr>
<tr>
<td><strong>Physical Education or Health</strong></td>
<td>Three credits minimum PE</td>
<td>Any PE185 course (1 credit each); any HE or HPE course (3 credits each).</td>
</tr>
<tr>
<td>(1 or more courses totaling at least 3 credits)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Discipline Studies

| Arts and Letters | Three courses minimum ART  |
| (3 courses chosen from two or more disciplines. All foreign languages are considered one discipline. ASL is considered a foreign language. The course used to meet the Oral Communication requirement above may not be used to fulfill this requirement.) | 101(CL), 115, 116, 117, 120, 121, 131, 201, 204, 205, 206, 207(CL), 221, 222, 223, 224, 225, 234, 237, 238, 240, 247, 258, 261, 265, 270, 276, 281, 291. |
| **Social Sciences** | Four courses minimum ATH  |
| (4 courses chosen from two or more disciplines.) | 101(CL), 102(CL), 103(CL). |
| **Sciences/Math/Computer Science** | Four courses minimum | Choose three courses from: |
| (4 courses chosen from two or more disciplines, including at least 3 laboratory courses in biological or physical science.) | | B1101, 102, 103, 131, 132, 133, 143, 153, 211, 212, 213, 230, 231, 232, 233, 234. |
| | | GEO142, 143, 144, 201, 202, 203. |
| | | GS104, 105, 106, 107, 141, 142, 143. |
| | | PH201, 202, 203, 207, 208, 209, 211, 212, 213. |
| | | Choose a fourth course from the list above or below: |
| | | CIS233J, 234J. |
| | | MTH105 or above. |

ASOT-CS continued next page
### Computer Science-Specific Requirements

(Most universities will expect additional computer science courses. Consult with an advisor to confirm you are taking the appropriate courses.)

| **Four courses minimum** | **CS160, 161, 162, 260, 290** |

### Electives and/or University-Specific Prerequisites

(Complete additional courses to bring the total number of credits to 90. A maximum of 12 credit hours in career and technical education courses may be included with the exception of the following: BT104, 105. Courses must be 100 level or higher.)

| **Depends on choice of transfer institution. See an advisor.** |

### Notes:

1. Earn a cumulative grade point average (GPA) of 2.00 or above.
2. Complete a minimum of 24 credits at Chemeketa.
3. Two terms of the same college-level foreign language, with a grade of “C-” or better, are required for admission to Oregon University System schools. This requirement applies only to students graduating from high school in 1997 or later. This requirement may also be met by completing two years of the same foreign language at the high school level. This is not a requirement for earning the Associate of Arts degree.
4. Any student having the ASOT-Computer Science degree recognized on an official college transcript will have meet the lower division General Education requirements of baccalaureate degree programs at any institution in the Oregon University System.
5. Students transferring under this agreement will have junior status for registration purposes. Course, class standing, or GPA requirements for specific majors, departments, or schools are not necessarily satisfied by an ASOT-Computer Science degree.
6. GPA admission requirements for the OUS schools are not necessarily satisfied with an ASOT-Computer Science degree. Please contact your school of choice for specific requirements.
7. To learn more about general education courses and their outcomes, see page 54.
8. Courses with the (IL) indicator fulfill the Information Literacy requirement for the ASOT-Computer Science. A minimum of one course fulfills this requirement.
9. Course with the (CL) indicator fulfill the Cultural Literacy requirement for the ASOT-Computer Science. A minimum of one course fulfills this requirement.
10. Electives should be taken to meet the requirements of your transfer institution. See your advisor for assistance.
### Associate of Applied Science Degree Requirements (AAS)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
<th>Courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Career and Technical Education Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete the required courses and credits listed for each career and technical education program. See pages 71 to 146 in this catalog for career and technical education programs. You will meet the degree requirements if you follow the curriculum listed for your program. Additionally, the courses listed below meet the college's AAS degree requirements.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Related Instruction and Digital Literacy Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Communication/Writing</strong></td>
<td>3/4</td>
<td>Choose from WR088, 115, 121, or higher writing course, or approved program substitute.</td>
</tr>
<tr>
<td><strong>Computation/Mathematics</strong></td>
<td>3/4</td>
<td>One course of MTH052 or higher numbered math course, or approved program substitute.</td>
</tr>
<tr>
<td><strong>Human Relations/Psychology/Sociology</strong></td>
<td>3/4</td>
<td>PSY101, 104, 201, 202, 206, 237, 239, 282; SOC204, 205, 206, 210, 213; or approved program substitute.</td>
</tr>
<tr>
<td><strong>Digital Literacy</strong></td>
<td>3/4</td>
<td>Take one of the following***: BA131; CA100; CIS101; CIS120; DRF165.</td>
</tr>
</tbody>
</table>
| **General Education Electives** | 3/4 | Arts and Letters  
American Sign Language, Art, Communication, English, Film Arts, Foreign Language, Humanities, Journalism, Linguistics, Music, Philosophy, Religious Studies, Theatre, Writing  
Science/Applied Science  
Approved program-related instruction may satisfy this requirement, or courses in Biology, Chemistry, Computer Science, Education, General Engineering, General Science, Geology, Horticulture, Nutrition and Food Management, Oceanography, Physics  
Social Science  
Anthropology, Chicano/Latino Studies, Economics, Geography, History, Human Development and Family Studies, Political Science, Psychology, Social Science, Sociology, Women's Studies  
| | **Mathematics**  
Any course with an HE, HPE, or PE prefix  
**Reading**  
Any course with an RD prefix  
**Science/Applied Science**  
Approved program-related instruction may satisfy this requirement, or courses in Biology, Chemistry, Computer Science, General Engineering, General Science, Geology, Horticulture, Nutrition and Food Management, Oceanography, Physics  
**Social Science**  
Anthropology, Chicano/Latino Studies, Economics, Geography, History, Human Development and Family Studies, Political Science, Psychology, Social Science, Sociology, Women's Studies  
**Study Skills**  
Any course with an SSP prefix  
**Writing**  
Any course with a WR prefix |
| **A minimum of three additional credits from any of these areas** | 3/4 | Arts and Letters  
American Sign Language, Art, Communication, English, English as a Non-Native Language**, Film Arts, Foreign Language, Humanities, Journalism, Linguistics, Music, Philosophy, Religious Studies, Theatre  
Health and Human Performance/Physical Education  
Any course with an HE, HPE, or PE prefix  
**Mathematics**  
Any course with a MTH prefix  
**Reading**  
Any course with an RD prefix  
**Science/Applied Science**  
Approved program-related instruction may satisfy this requirement, or courses in Biology, Chemistry, Computer Science, General Engineering, General Science, Geology, Horticulture, Nutrition and Food Management, Oceanography, Physics  
**Social Science**  
Anthropology, Chicano/Latino Studies, Economics, Geography, History, Human Development and Family Studies, Political Science, Psychology, Social Science, Sociology, Women's Studies  
**Study Skills**  
Any course with an SSP prefix  
**Writing**  
Any course with a WR prefix |

**Notes:**
1. Complete a minimum of 24 credits at Chemeketa.
2. Earn a cumulative grade point average (GPA) of 2.00 or above in all courses to be applied toward the degree.
3. We recommend that you see an advisor for guidance before you enroll.
4. Only courses numbered 050 or higher—unless otherwise indicated—apply toward the degree.
5. At the end of a program or course of study, any student receiving a three-term Certificate of Completion or two-year Associate of Applied Science degree will meet related instruction requirements in communications, computation, and human relations. See page 48.
6. Some of Oregon's four-year institutions accept certain career and technical education courses as college transfer courses. If you are interested in continuing your education after completing a Chemeketa program, please contact your school of choice for additional information.
7. Indicates a course prerequisite or requirement related to the course. For further information contact your program advisor or college advisor.
8. Courses must be 100 level or higher
9. See page 48 for more information regarding the Digital Literacy requirement for the AAS degree.
#### Associate of Science Degree Requirements (AS)

Complete a minimum of 90 credits. All courses must be passed with a grade C- or better. These must include the following:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credits</th>
<th>Courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Education Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Writing</td>
<td>Six credits minimum</td>
<td>WR121 and one additional writing course for which WR121 is a prerequisite.</td>
</tr>
<tr>
<td>Math</td>
<td>Four credits minimum</td>
<td>MTH111 or higher.</td>
</tr>
<tr>
<td><strong>Physical Education or Health</strong></td>
<td>Three credits minimum</td>
<td>Any PE185 course (1 credit each); any HE or HPE course (3 credits each). A maximum of 3 credits of PE185 may be applied toward degree.</td>
</tr>
<tr>
<td><strong>Digital Literacy</strong> (As demonstrated by course completion or competency testing.)</td>
<td>Three credits minimum</td>
<td>Choose three credits from: CIS101, 102A, 120, 120A, 121, 125A, 125E, 125G, 133J, 133JS, 133SC, 133U, 133VB, 135AE, 140B, 140U, 145, 152, 1781, 178W, 179, 186, 195, 233J, 234J, 244, 275, 278, 279, 283, 284, 288, 289, 295. CS160, 161, 162, 260, 271, 290</td>
</tr>
<tr>
<td><strong>Electives</strong> (Complete additional courses to bring the total number of credits to 90.)</td>
<td></td>
<td>All elective credits must be numbered 100 or above and be lower division collegiate courses.</td>
</tr>
</tbody>
</table>

**Notes:**

1. Complete a minimum of 24 credits at Chemeketa.
2. Two terms of the same college-level foreign language, with a grade of “C” or better, are required for admission to Oregon University System schools. This requirement applies only to students graduating from high school in 1997 or later. This requirement may also be met by completing two years of the same foreign language at the high school level. This is not a requirement for earning the Associate of Arts degree.
3. GPA admission, general education, and major requirements for the OUS schools are not necessarily satisfied with an AS degree. Please contact your school of choice for specific requirements.
# Associate of General Studies Degree Requirements (AGS)

Complete a minimum of 90 credits. These must include the following:

## General Education Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credits</th>
<th>Courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Writing</strong>&lt;br&gt;(A minimum of six credits with a grade of C- or better.)</td>
<td>6</td>
<td>WR121 and one additional course from WR122, 227, 240, 241, 242, 243, 244, 245, 262; or BA214.</td>
</tr>
<tr>
<td><strong>Math</strong>&lt;br&gt;(A minimum of four credits with a grade of C- or better.)</td>
<td>4</td>
<td>MTH053 or above.</td>
</tr>
<tr>
<td><strong>Oral Communication</strong>&lt;br&gt;(A minimum of three credits.)</td>
<td>3/4</td>
<td>COMM100 or above.</td>
</tr>
<tr>
<td><strong>Digital Literacy</strong></td>
<td>3/4</td>
<td>Any CS or CIS course or any of the following program-approved courses listed below. Check with your program advisor if you have any questions related to this requirement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BA131</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CA100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CIS101* (or higher)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CIS120*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DRF165*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAM160*</td>
</tr>
<tr>
<td><strong>Physical Education or Health</strong>&lt;br&gt;(A maximum of 12 credits of physical education may be applied toward the degree.)</td>
<td>3</td>
<td>Any PE185 course (1 credit each), or any HE or HPE course (3 credits each).</td>
</tr>
</tbody>
</table>

## Distribution Requirements - Each course must be a minimum of three credits and numbered 100 or above

| Arts and Letters<br>(Each course must be a minimum of 3 credits.) | 9      | Art, American Sign Language, Communication, English, Film Arts, French, Humanities, Journalism, Japanese, Linguistics, Music, Philosophy, Religious Studies, Russian, Spanish, Theatre, Writing. |
| Social Sciences<br>(12 credits chosen from at least two disciplines. Each course must be a minimum of three credits.) | 12     | Anthropology, Chicano/Latino Studies, Economics, Education, Geography, History, Political Science, Psychology, Sociology, Social Science, Women's Studies. |
| Science<br>(Eight credits of biological or physical science courses which include a laboratory.) | 8      | Biology, Chemistry, Geology, General Science, Physics. |
| Electives<br>(Complete additional courses to bring the total number of credits to 90.) |         | Developmental courses numbered less than 050 do not meet the requirements of this degree. A maximum of 36 credit hours in career and technical education or developmental courses numbered 050-099 may be applied toward the 90 credit hours required for the degree. See page 150 for how courses are numbered. All collegiate-level courses must be numbered 100 or above. |

## Note

1. Earn a cumulative grade point average (GPA) of 2.00 or above in all courses to be applied toward the degree.
2. Complete a minimum of 24 credits at Chemeketa.
3. A maximum of 12 credit hours of cooperative work experience may be applied toward the degree.

* Indicates a course prerequisite or requirement related to the course. For further information contact your program advisor or a college advisor.
Career Choices and Programs of Study
Career Choices and Programs of Study

As you begin at Chemeketa, you may have already decided on a career you want to pursue or a program area you want to enter. Many students, however, are still figuring that out when they start at the college. If you are still exploring career options, the information here may be helpful. Below is a list of the fastest-growing occupations in the United States. Chemeketa has programs of study for most of these careers. In some cases there is more than one choice of a program to get you started in the field. For some of the professions you may need to get training at another community college. In all cases, you will see where you can find more information about the program or whom you need to contact.

Note: In pages 71 through 146, only those areas of study terminating in a certificate or degree are referred to as “programs.”

<table>
<thead>
<tr>
<th>Fastest Growing Occupations in the United States</th>
<th>Program or Information</th>
<th>Page or Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest Fire Inspectors and Prevention Specialists</td>
<td>See Fire Prevention Associate of Applied Science Associate of Applied Science</td>
<td>page 113</td>
</tr>
<tr>
<td>Genetic Counselors</td>
<td>See Associate of Arts Oregon Transfer/Biology + Post-Baccalaureate Education</td>
<td>page 58</td>
</tr>
<tr>
<td>Home Health Aids</td>
<td>See Nursing Associate of Applied Science</td>
<td>page 130</td>
</tr>
<tr>
<td>Information Security Analysts</td>
<td>See Computer Information Systems Associate of Applied Science</td>
<td>page 92</td>
</tr>
<tr>
<td>Massage Therapists</td>
<td>Contact Central Oregon Community College 541.383.7700</td>
<td></td>
</tr>
<tr>
<td>Mathematicians</td>
<td>See Associate of Arts Oregon Transfer/Mathematics Major</td>
<td>page 58</td>
</tr>
<tr>
<td>Medical Assistants</td>
<td>See Medical Assisting Certificate of Completion</td>
<td>page 129</td>
</tr>
<tr>
<td>Nurse Practitioners</td>
<td>See Nursing Associate of Applied Science/Nursing Major + Post-Baccalaureate Education</td>
<td>page 130</td>
</tr>
<tr>
<td>Occupational Therapy Assistants</td>
<td>Contact Linn-Benton Community College 541.917.4999</td>
<td></td>
</tr>
<tr>
<td>Operations Research Analysts</td>
<td>See Associate of Arts Oregon Transfer/Management Science Major</td>
<td>page 58</td>
</tr>
<tr>
<td>Personal Care Aides</td>
<td>See Nursing Associate of Applied Science</td>
<td>page 130</td>
</tr>
<tr>
<td>Physical Therapists</td>
<td>See Associate of Arts Oregon Transfer/Physical Therapy + Post-Baccalaureate Education</td>
<td>page 58</td>
</tr>
<tr>
<td>Physical Therapist Aides</td>
<td>Contact Lane Community College 541.463.3000</td>
<td></td>
</tr>
<tr>
<td>Physical Therapist Assistant</td>
<td>Contact Mt. Hood Community College 503.491.7464</td>
<td></td>
</tr>
<tr>
<td>Physician Assistant</td>
<td>See Associate of Arts Oregon Transfer/Biology Major</td>
<td>page 58</td>
</tr>
<tr>
<td>Software Developers, Applications</td>
<td>See Computer Information Systems Associate of Applied Science or Associate Science Oregon Transfer-Computer Science/Computer Science Major</td>
<td>page 92</td>
</tr>
<tr>
<td>Solar Photovoltaic Installers</td>
<td>See Renewable Energy Management Associate of Applied Science Degree Option</td>
<td>page 111</td>
</tr>
<tr>
<td>Statisticians</td>
<td>See Associate of Arts Oregon Transfer/Mathematics Major</td>
<td>page 58</td>
</tr>
<tr>
<td>Wind Turbine Service Technicians</td>
<td>See Renewable Energy Management Associate of Applied Science Degree Option</td>
<td>page 111</td>
</tr>
</tbody>
</table>

Source: U.S. Department of Labor Statistics Publish Date: May 1, 2019
Here is a list of the fastest-growing jobs in Marion, Polk, and Yamhill counties. As you look at these jobs, keep in mind that some of these jobs require a degree or certificate, but others may just require a few courses.

In each of these areas, Chemeketa has the training available to prepare you for work. The contact and program information will help you find the classes or program you need.

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Contact</th>
<th>Telephone</th>
<th>Programs and Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automotive Service Technicians and Mechanics</td>
<td>Brian McLearn</td>
<td>503.399.6523</td>
<td>See Automotive Technology Program, page 78</td>
</tr>
<tr>
<td>Bookkeeping, Accounting, and Auditing Clerks</td>
<td>Lana Tuss</td>
<td>503.399.6152</td>
<td>See Accounting Program, page 71</td>
</tr>
<tr>
<td>Computer Occupations</td>
<td>Mandy Reininger</td>
<td>503.365.4822</td>
<td>See Computer Information Systems Program, page 92</td>
</tr>
<tr>
<td>Computer User Support Specialists</td>
<td>Mandy Reininger</td>
<td>503.365.4822</td>
<td>See Computer Information Systems Program, page 92</td>
</tr>
<tr>
<td>Construction Managers</td>
<td>Karen Edwards</td>
<td>503.399.3996</td>
<td>See Business Management, page 83</td>
</tr>
<tr>
<td>Dental Assistants/Dental Hygienist</td>
<td>Lynn George</td>
<td>503.399.5265</td>
<td>See Dental Assisting Program, page 100</td>
</tr>
<tr>
<td>Education Administrators, Preschool and Childcare Center/Program</td>
<td>Pam Ditterick</td>
<td>503.399.6076</td>
<td>See Early Childhood Education Program, page 104</td>
</tr>
<tr>
<td>Firefighters</td>
<td>Bill Klein</td>
<td>503.399.6240</td>
<td>See Fire Prevention and Fire Suppression Programs, page 113</td>
</tr>
<tr>
<td>Graphic Designers</td>
<td>Peter Hoelter</td>
<td>503.399.6475</td>
<td>See Visual Communication Program, page 139</td>
</tr>
<tr>
<td>Heating, Air Conditioning, and Refrigeration Mechanics and Installers</td>
<td>Megan Cogswell</td>
<td>503.399.6266</td>
<td>See Apprenticeship Trades, page 75</td>
</tr>
<tr>
<td>Industrial Engineering Technicians</td>
<td>Mike Myers, Chuck Sekafetz</td>
<td>503.399.6066, 503.399.6254</td>
<td>See Welding Technology Program, page 142 See Electronic Technologies Program, page 108</td>
</tr>
<tr>
<td>Medical Records and Health Information Technicians</td>
<td>Jane Ellis</td>
<td>503.589.7848</td>
<td>See Health Information Management Program, page 118</td>
</tr>
<tr>
<td>Nursing Assistants</td>
<td>Health Sciences Dept.</td>
<td>503.399.5058</td>
<td>See Nursing Program, page 130</td>
</tr>
<tr>
<td>Pharmacy Technicians</td>
<td>Health Sciences Dept.</td>
<td>503.365.5058</td>
<td>See Pharmacy Technician Program, page 133</td>
</tr>
<tr>
<td>Preschool Teachers, Except Special Education</td>
<td>Pam Ditterick</td>
<td>503.399.6076</td>
<td>See Early Childhood Education Program, page 104</td>
</tr>
<tr>
<td>Telecommunications Equipment Installers and Repairers</td>
<td>Chuck Sekafetz</td>
<td>503.399.6254</td>
<td>See Electronic Technologies Program, page 108</td>
</tr>
</tbody>
</table>

Source: Oregon Employment Department Retrieved Date: May 1, 2019
Career Pathways Certificates, Short-term Training Awards, and Business and Industry Certification

You may not need to complete a two-year degree to prepare for some of the jobs that are of interest to you. Many programs offer Career Pathways Certificates of Completion. Career pathways courses will apply to a Certificate or Associate of Applied Science (AAS) degree in the same field. These certificates can help you get started on a career or advance in your chosen field while continuing your education toward higher degrees.

Another alternative is getting training for a specific workplace skill and receiving a short-term training award. The amount of time required for short-term training ranges from a few hours to one or two terms.

Industry certification is a recognized approach to demonstrate your proficiencies in any one of a wide range of technical and administrative areas. Whether you are seeking a position with a new organization or looking to advance in your present organization, certification demonstrates that you have the skills you need to take the next step. At Chemeketa Community College, our mission is to provide high-quality, affordable career education that meets the needs of professionals and employers. You will be working with experienced faculty, using today’s technology, paying a fraction of the cost of private training companies. The course material is developed to help you prepare for the certification test and succeed on the job.

Contact the departments or individuals listed below or check the pages indicated for more information.

### Career Pathways Certificates of Completion (Credit)

<table>
<thead>
<tr>
<th>Certificate</th>
<th>Contact</th>
<th>Credits</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>Lana Tuss, 503.399.6152</td>
<td>43</td>
<td>71</td>
</tr>
<tr>
<td>Arc Welding</td>
<td>Mike Myers, 503.399.6066</td>
<td>22</td>
<td>142</td>
</tr>
<tr>
<td>Automotive Entry-Level Technician</td>
<td>Brian McLearn, 503.399.6523</td>
<td>28</td>
<td>80</td>
</tr>
<tr>
<td>Basic Corrections</td>
<td>Megan Gonzalez, 503.584.7350</td>
<td>37</td>
<td>99</td>
</tr>
<tr>
<td>Basic Health Care</td>
<td>Jane Ellis, 503.589.7848</td>
<td>18</td>
<td>119</td>
</tr>
<tr>
<td>Basic Law Enforcement</td>
<td>Megan Gonzalez, 503.584.7350</td>
<td>38</td>
<td>100</td>
</tr>
<tr>
<td>Business Software</td>
<td>Barbara Johansen, 503.399.2894</td>
<td>18</td>
<td>87</td>
</tr>
<tr>
<td>Computer Programming</td>
<td>Mandy Reininger, 503.365.4822</td>
<td>28</td>
<td>94</td>
</tr>
<tr>
<td>Computer Numerically Controlled (CNC) Operator</td>
<td>Sheldon Schneider, 503.589.7875</td>
<td>40</td>
<td>127</td>
</tr>
<tr>
<td>Early Childhood Education: Infant/Toddler</td>
<td>Pam Ditterick, 503.399.6076</td>
<td>15</td>
<td>106</td>
</tr>
<tr>
<td>Early Childhood Education: Preschool</td>
<td>Pam Ditterick, 503.399.6076</td>
<td>14</td>
<td>106</td>
</tr>
<tr>
<td>Entrepreneurship and Small Business Management</td>
<td>Karen Edwards, 506.399.3996</td>
<td>36</td>
<td>85</td>
</tr>
<tr>
<td>Event Management</td>
<td>Eric Aebi, 503.589.7994</td>
<td>36</td>
<td>122</td>
</tr>
<tr>
<td>Food and Beverage Management</td>
<td>Eric Aebi, 503.589.7994</td>
<td>36</td>
<td>122</td>
</tr>
<tr>
<td>Lodging Management</td>
<td>Eric Aebi, 503.589.7994</td>
<td>36</td>
<td>123</td>
</tr>
<tr>
<td>MIG Welding</td>
<td>Mike Myers, 503.399.6066</td>
<td>14</td>
<td>142</td>
</tr>
<tr>
<td>Office Fundamentals</td>
<td>Barbara Johansen, 503.399.2894</td>
<td>38</td>
<td>88</td>
</tr>
<tr>
<td>Payroll</td>
<td>Lana Tuss, 503.399.6152</td>
<td>20</td>
<td>72</td>
</tr>
<tr>
<td>Retail Management</td>
<td>Karen Edwards, 503.399.3996</td>
<td>38</td>
<td>84</td>
</tr>
<tr>
<td>Sustainability in Management</td>
<td>Karen Edwards, 503.399.3996</td>
<td>12</td>
<td>84</td>
</tr>
<tr>
<td>Systems Administrator and Network Security</td>
<td>Mandy Reininger, 503.365.4822</td>
<td>38</td>
<td>94</td>
</tr>
<tr>
<td>Tax Preparation</td>
<td>Lana Tuss, 503.399.6152</td>
<td>16</td>
<td>72</td>
</tr>
<tr>
<td>Tourism and Travel Management</td>
<td>Eric Aebi, 503.589.7994</td>
<td>36</td>
<td>123</td>
</tr>
<tr>
<td>Vineyard Operations</td>
<td>Scott Dwyer, 503.589.7663</td>
<td>42</td>
<td>144</td>
</tr>
<tr>
<td>Virtual Office Assistant</td>
<td>Barbara Johansen, 503.399.2894</td>
<td>39</td>
<td>88</td>
</tr>
<tr>
<td>Web Developer</td>
<td>Mandy Reininger, 503.365.4822</td>
<td>31</td>
<td>94</td>
</tr>
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</table>

### Short-Term Training Awards (Non-credit) Training

<table>
<thead>
<tr>
<th>Certificate</th>
<th>Contact</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Nurse Assistant</td>
<td>Paula Hendrix, 503.399.3907</td>
<td>11 weeks</td>
</tr>
<tr>
<td>DEQ Maintenance Provider</td>
<td>CCBI, 503.399.5181</td>
<td>16 hours</td>
</tr>
<tr>
<td>DEQ Onsite Wastewater Installer</td>
<td>CCBI, 503.399.5181</td>
<td>8 hours</td>
</tr>
<tr>
<td>Flagger Trainer</td>
<td>CCBI, 503.399.5181</td>
<td>8 hours</td>
</tr>
</tbody>
</table>

### Non-Credit Training Certificates

<table>
<thead>
<tr>
<th>Certificate</th>
<th>Contact</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apple macOS System Maintenance</td>
<td>Steven Patterson, 503.399.4736</td>
<td>24</td>
</tr>
<tr>
<td>Basic Warehouse Certificate</td>
<td>Marshall Roache, 503.399.2339</td>
<td>32</td>
</tr>
<tr>
<td>Real Estate Broker</td>
<td>Steven Patterson, 503.399.4736</td>
<td>38</td>
</tr>
<tr>
<td>Truck Driving</td>
<td>Paul Davis, 503.584.7553</td>
<td>160</td>
</tr>
</tbody>
</table>
Accounting Program

go.chemeketa.edu/accounting

See also Business Administration and Business Management

Are you interested in becoming a bookkeeper, accountant, payroll specialist, or tax preparer? The Accounting certificate and degree, and the Payroll and Tax Preparation certificates offer you the training to qualify for entry-level positions requiring accounting in business, industry, and government agencies. The Accounting Baccalaureate Preparation certificate is geared to those who plan to transfer to a university to pursue an accounting degree or a business degree with emphasis in accounting.

The program includes a core of accounting, business, and general education courses and emphasize acquiring specialized business knowledge. You may select individual courses to meet your needs, or you may work toward a certificate of completion or an associate of applied science degree. The Accounting degree and certificates may be earned completely online.

We strongly suggest that you consult with your assigned advisor to plan your course of study before you begin the first term. The college requires you to take English and mathematics placement tests before you apply for admission. If the tests show that your skills are above the levels of the required first-term courses, you may request to substitute general education courses.

Program Outcomes

Students completing the Accounting and Tax Preparation certificates should be able to:

- Identify, analyze, record, and summarize routine economic events, and present the results of that work, both manually and using a current accounting software package.
- Prepare commonly used federal and state payroll and tax documents and reports.
- Demonstrate knowledge of relevant timelines for completion and submission of these documents and reports.

Students completing the Accounting Baccalaureate Preparation certificate should be able to:

- Identify, analyze, record, and summarize routine economic events, and present the results of that work.
- Demonstrate computer, math, writing, and communication skills required for upper-division college work and applicable to accounting career standards.

Students completing the Payroll certificate should be able to:

- Prepare complex fourth-quarter payroll.
- Interpret legal and/or contracted language and apply to payroll.

In addition to the certificate outcomes, students completing the Accounting degree should be able to:

- Demonstrate knowledge of computerized accounting systems.
- In a team environment, prepare and analyze financial reports, make recommendations, and communicate results.

- Choose a course of action based on the conceptual framework, assumptions, principles, constraints, and ethics in accounting.

If you have questions about the requirements, call 503.399.5048.

You may be interested in our Cooperative Work Experience program that allows you to earn college credit for work you do relating to your program. With the approval of the CWE instructor, you may enroll in BA280B-L Cooperative Work Experience and earn up to three credit hours as a business elective. For more information, look under Cooperative Work Experience in the catalog index.

The Accounting program provides you with an opportunity to participate in a number of accounting-related extracurricular activities. Several professional accounting organizations, such as the National Association of Accountants and the American Society of Women Accountants, encourage you to become active in Salem area chapters.

Accounting Certificate of Completion

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $1,350; class fees, $82; and universal fee, $1,032. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Accounting certificate is designed for current accounting students who wish to enter the field as a bookkeeper on their path to an associate or bachelor’s degree in accounting. This certificate prepares students to accomplish a wide variety of tasks within the broad area of accounting, including administrative accounting, small business accounting, and entry-level governmental accounting. In addition, this certificate provides students with the necessary foundation for preparing for the American Institute of Professional Bookkeepers (AIPB) certification exam.

You may earn a certificate of completion by successfully completing the required 43 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Term 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA104</td>
<td>Business Applications Using Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>BA211</td>
<td>Financial Accounting 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS101</td>
<td>Computing Concepts</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS120</td>
<td>Digital Literacy (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BT210</td>
<td>Professional Communication Skills</td>
<td>4</td>
</tr>
<tr>
<td><strong>Term 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA101</td>
<td>Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td>BA212</td>
<td>Financial Accounting 2</td>
<td>4</td>
</tr>
<tr>
<td>CIS125E</td>
<td>Excel-Workbooks</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA225</td>
<td>Excel for Accounting</td>
<td>4</td>
</tr>
</tbody>
</table>

You may be interested in our Cooperative Work Experience program that allows you to earn college credit for work you do relating to your program. With the approval of the CWE instructor, you may enroll in BA280B-L Cooperative Work Experience and earn up to three credit hours as a business elective. For more information, look under Cooperative Work Experience in the catalog index.

The Accounting program provides you with an opportunity to participate in a number of accounting-related extracurricular activities. Several professional accounting organizations, such as the National Association of Accountants and the American Society of Women Accountants, encourage you to become active in Salem area chapters.

Accounting Certificate of Completion

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $1,350; class fees, $82; and universal fee, $1,032. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Accounting certificate is designed for current accounting students who wish to enter the field as a bookkeeper on their path to an associate or bachelor’s degree in accounting. This certificate prepares students to accomplish a wide variety of tasks within the broad area of accounting, including administrative accounting, small business accounting, and entry-level governmental accounting. In addition, this certificate provides students with the necessary foundation for preparing for the American Institute of Professional Bookkeepers (AIPB) certification exam.

You may earn a certificate of completion by successfully completing the required 43 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Term 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA104</td>
<td>Business Applications Using Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>BA211</td>
<td>Financial Accounting 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS101</td>
<td>Computing Concepts</td>
<td>3</td>
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<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS120</td>
<td>Digital Literacy (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BT210</td>
<td>Professional Communication Skills</td>
<td>4</td>
</tr>
<tr>
<td><strong>Term 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA101</td>
<td>Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td>BA212</td>
<td>Financial Accounting 2</td>
<td>4</td>
</tr>
<tr>
<td>CIS125E</td>
<td>Excel-Workbooks</td>
<td>4</td>
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<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA225</td>
<td>Excel for Accounting</td>
<td>4</td>
</tr>
</tbody>
</table>
Accounting Baccalaureate Preparation Certificate of Completion

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $1,680; class fees, $25; and universal fee, $1,296. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Accounting Baccalaureate Preparation (ABP) certificate has been developed for students attending Chemeketa who are looking to transfer to a university to major in accounting or obtain a business degree with an emphasis in accounting. The certificate combines some of Chemeketa’s accounting degree requirements with the requirements of the Associate of Science/Oregon Transfer degree in Business and contains a substantial portion of the lower division courses required for prospective accounting majors at the university level.

Students who complete the certificate and transfer to a four-year school to earn a bachelor’s degree in accounting or governmental accounting and may meet partial requirements for preparation for the Certified Public Accountant, Certified Management Accountant, and Certified Financial Planner exams.

You may earn a certificate of completion by successfully completing the required 54 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Term 1</strong></td>
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<td></td>
</tr>
<tr>
<td>BA211</td>
<td>Financial Accounting 1</td>
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<tr>
<td>CIS101</td>
<td>Computing Concepts</td>
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</tr>
<tr>
<td>CIS120</td>
<td>Digital Literacy (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition</td>
<td>4</td>
</tr>
<tr>
<td><strong>Term 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA101</td>
<td>Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td>BA212</td>
<td>Financial Accounting 2</td>
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<tr>
<td>BA214</td>
<td>Business Communications+</td>
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<tr>
<td>or</td>
<td>Argument, Research, and Multimodal Composition+</td>
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<tr>
<td>or</td>
<td>Technical Writing+</td>
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<tr>
<td><strong>Year 3</strong></td>
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<tr>
<td>BA223</td>
<td>Managerial Accounting</td>
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<tr>
<td>BA226</td>
<td>Business Law 1</td>
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<tr>
<td><strong>Year 4</strong></td>
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<tr>
<td>MTH243</td>
<td>Probability and Statistics 1+</td>
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</tr>
<tr>
<td>or</td>
<td>Psychology/Sociology elective+*</td>
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</table>

Payroll Certificate of Completion

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $680; class fees, $25; and universal fee, $480. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Payroll certificate emphasizes skill development for those interested in pursuing a position as payroll/benefits specialist. Graduates of the certificate may find employment in local, state, or federal government agencies, or in any segment of the private sector. The demand for accounting firm employees with the special skill set of a payroll professional is expected to grow as these firms seek to increase revenue streams by adding the payroll function to their menu of services. More companies are outsourcing their payroll functions to accounting firms due to the increasing number and complexity of regulations.

Students who complete the certificate and transfer to a four-year school to earn a bachelor’s degree in accounting or governmental accounting and may meet partial requirements for the Fundamental Payroll Certification exam offered by the American Payroll Association.

You may earn a certificate of completion by successfully completing the required 20 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
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<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Term 1</strong></td>
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<td></td>
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<tr>
<td>BA211</td>
<td>Financial Accounting 1</td>
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<tr>
<td><strong>Term 2</strong></td>
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<td>BA177</td>
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<td>BA228</td>
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<tr>
<td><strong>Term 3</strong></td>
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<tr>
<td>BA226</td>
<td>Business Law 1</td>
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<td><strong>Term 4</strong></td>
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</tr>
<tr>
<td>MTH244</td>
<td>Probability and Statistics 2</td>
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<tr>
<td><strong>Term 5</strong></td>
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</tr>
<tr>
<td>EC201</td>
<td>Introduction to Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking</td>
<td>4</td>
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</tbody>
</table>
provides the necessary 80 hours of course work required in order to take the State of Oregon Licensed Tax Preparer test.

You may earn a certificate of completion by successfully completing the required 16 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Term 1</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Term 2</td>
<td>BA177 Payroll</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Term 3</td>
<td>BA256 Income Tax 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Term 4</td>
<td>BA257 Income Tax 2</td>
<td>4</td>
</tr>
</tbody>
</table>

**Accounting Associate of Applied Science Degree**

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $2,950; class fees, $464; universal fee, $2,160; and equipment and supplies, $390. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 90 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>BA104 Business Applications Using Mathematics+</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BA211 Financial Accounting 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CIS101 Computing Concepts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CIS120 Digital Literacy (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>WR121 Academic Composition</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BT210 Professional Communication Skills</td>
<td>4</td>
</tr>
<tr>
<td>Term 2</td>
<td>BA101 Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BA212 Financial Accounting 2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BA214 Business Communications+</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>WR122 Argument, Research, and Multimodal Composition +</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>WR227 Technical Writing+</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BA225 Excel for Accounting</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CIS125E Excel-Workbooks</td>
<td>4</td>
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</tbody>
</table>

**Term 4**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>BA279 Computerized Accounting 2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BA240 Gov’t Accounting/Non-Profit</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MTH095 Intermediate Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Accounting elective*</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Psychology/Sociology elective+***</td>
<td>4</td>
</tr>
</tbody>
</table>

**Term 5**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>COMM111 Fundamentals of Public Speaking (or higher: COMM130 recommended)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>FE205B Resumes and Job Search Correspondence</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Business/Computer Information Systems/ Economics elective**</td>
<td>4</td>
</tr>
</tbody>
</table>

**Term 6**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BA257 Income Tax 2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BA280C Cooperative Work Experience</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Business/Computer Information Systems/ Economics elective**</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Accounting elective*</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Business Management Principles</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BA222 Financial Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MTH111 College Algebra (or higher)</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>BA282 Applied Accounting Capstone</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.
*Accounting elective: Choose from BA215, BA218, BA225, BA237, BA240, BA276, or BA279.
**Business/Computer Information Systems/Economics elective: Choose BA courses at the 200 level or above CIS135AE, or EC200 or above.
***Psychology/Sociology elective, choose one: PSY101, PSY104, SOC204, SOC205, or SOC206.

**Agriculture**

For discipline outcomes, see General Education Outcomes—Science or Computer Science on page 55.

Oregon State University offers Bachelor of Science degrees in Agricultural and Resource Economics, Agricultural Business Management, General Agriculture, Animal Sciences, Crop and Soil Science, Fisheries and Wildlife Science, Food Science and Technology, and Horticulture.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa’s Advising and First Year Programs staff or a Chemeketa Agriculture faculty advisor. Also, you should make early contact with an advisor at OSU to learn of any possible changes in an academic area.
Anesthesia Technology Program

The Anesthesia Technology program provides the student with entry level training leading to an Associate of Applied Science degree. Curriculum is based on the American Society of Anesthesia Technologist and Technicians (ASATT) standards and guidelines as well as the Commission on Accreditation of Allied Health Education Programs (CAAHEP) standards. Course work includes the following: Anatomy and Physiology, Microbiology, Medical Terminology, Pharmacology, EKG Analysis, Anesthesia Equipment Principles and Applications, and general medical knowledge. Included in the program are intensive clinical experiences in local area hospitals.

Entry Requirements:
- Minimum age, 18 years.
- Appropriate placement into WR121, and MTH095 or MTH098 through Accuplacer.
- Fluent in English language, including verbal and written.
- Complete and pass background test and UA drug screening.
- Produce vaccination schedule that meets OHA requirements.
- Meet the technical standards for the program.

Program Outcomes

Students completing the Anesthesia Technology degree should be able to:
- Assume the role of a competent, caring Anesthesia Technologist in a variety of healthcare settings under the direct supervision of the licensed healthcare provider.
- Demonstrate the principles of basic and advanced airway management in all phases of the perioperative episodes of care.
- Demonstrate critical thinking skill: prioritizing, analyzing, anticipating, resolving problems, and acting instinctively and decisively in the anesthesia health care environment.
- Demonstrate accountability of practice with adherence to ethical and legal standards of the Anesthesia Technologist profession.
- Communicate effectively in the perioperative health care environment with all members of the healthcare team.
- Demonstrate rationale and competency with regard to anesthesia related equipment.
- Demonstrate the ability to maintain and service anesthesia equipment including cleaning, sterilizing, assembling, calibrating, testing, troubleshooting, and recording of inspections and maintenance.

Anesthesia Technology Associates of Applied Sciences Degree

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $1,000; clinical fees, $2,376; lab fees, $2000; Differential fee $890 and universal fee, $2640. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate’s degree by successfully completing the required 108 credit hours with a grade of “C” or better in all courses.

Program Prerequisites:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI231</td>
<td>Human Anatomy and Physiology 1</td>
<td>4</td>
</tr>
<tr>
<td>BI232</td>
<td>Human Anatomy and Physiology 2</td>
<td>4</td>
</tr>
<tr>
<td>BI233</td>
<td>Human Anatomy and Physiology 3</td>
<td>4</td>
</tr>
<tr>
<td>BI234</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CH110</td>
<td>Foundations of General, Organic, and Biochemistry</td>
<td>5</td>
</tr>
<tr>
<td>HM120</td>
<td>Medical Terminology 1</td>
<td>4</td>
</tr>
<tr>
<td>HM121</td>
<td>Medical Terminology 2</td>
<td>4</td>
</tr>
<tr>
<td>MTH095</td>
<td>Intermediate Algebra (or higher)</td>
<td>5</td>
</tr>
<tr>
<td>PSY201</td>
<td>Psychology: Mind and Body</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition</td>
<td>4</td>
</tr>
</tbody>
</table>

Program Core Courses

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>ANES101 Introduction to Anesthesia Technology</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ANES103 Anesthesia Technology Lab 1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ANES112 Operating Room Equipment</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHM243 Pharmacology 1 for the Anesthesia Technologist</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Term 2</td>
<td>ANES104 Anesthesia Technology Lab 2</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHM244 Pharmacology 1 for the Anesthesia Technologist</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Term 3</td>
<td>ANES102 Anesthesia Equipment: Principles and Applications</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ANES105 Anesthesia Technology Lab 3</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ANES130 ACLS/PALS with EKG Analysis</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Term 4</td>
<td>ANES203 Anesthesia Technology Lab 4</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ANES210 Anesthesia Technology Clinical Practicum 1</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Term 5</td>
<td>ANES204 Anesthesia Technology Lab 5</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ANES211 Anesthesia Technology Clinical Practicum 2</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Term 6</td>
<td>ANES212 Anesthesia Technology Clinical Practicum 3</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ANES215 Anesthesia Technology Certification Exam Prep...</td>
<td>3</td>
<td></td>
</tr>
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</table>

Anthropology

For discipline outcomes, see General Education Outcomes—Social Science on page 55.

Chemeketa offers a number of anthropology courses. Some of these courses can be used to fulfill the Social Science requirements of the Associate of Arts Oregon Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Oregon State University, Portland State University, and University of Oregon offer Bachelor of Arts and/or Bachelor of Science degrees in Anthropology. Eastern Oregon University and Southern Oregon University both offer a combined major in anthropology and sociology.

As a student, you are responsible for learning the departmental requirements of the school to which you plan...
Apprenticeship Program

go.chemeketa.edu/apprenticeship

Apprenticeship training is a method of vocational education recognized by the Apprenticeship and Training Division (ATD) of the Oregon Bureau of Labor and Industries (BOLI). It combines full-time on-the-job training (OJT) with committee-approved contractors and trade-related instruction. Apprentices work full time and take courses one or two evenings a week for four years.

The instruction at Chemeketa is for those already working in selected trades as apprentices, or for journey-level men and women who wish to upgrade their skills or knowledge. First-year HVAC/R and sheet metal courses are open to the public. The programs require four years of OJT and related instruction to earn a journey-level card. HVAC/R technicians, plumbers, and electricians require state licensure at the conclusion of their training.

Chemeketa’s Apprenticeship program offer a Certificate of Completion and an Associate of Applied Science degree in Construction Trades, General Apprenticeship with specializations in Heating, Ventilation, Air-Conditioning, and Refrigeration (HVAC/R); Plumbing; and Sheet Metal, and a Certificate of Completion and an Associate of Applied Science degree in Electrician Technologies Apprenticeship for Inside Wire Electricians. The program provides statewide transfer opportunities and an optional transfer path into a Bachelor of Science degree in Operations Management at the Oregon Institute of Technology (OIT). The related training courses are based on ATD and local Joint Apprenticeship Training Committee-approved related training courses developed to meet industry standards. They are approved for BOLI-registered apprentices and with limited courses available to the general student population.

All students in the HVAC/R and Inside Wire Electrician apprenticeship programs must complete 8,000 hours of State of Oregon approved OJT; the Sheet Metal program requires 7,200 hours of OJT; and the Plumbing program requires 7,700 hours of OJT. In addition, students must successfully complete specific skill sets in their field of specialization.

Transcripts from students interested in transferring to Chemeketa for apprenticeship program completion, or for degree and certificate completion, will be evaluated on an individual basis. Learner outcomes will determine the courses and number of credits accepted. The total number of credits accepted may or may not equal the number of credits approved for Chemeketa students.

Contact the apprenticeship office at 503.399.5255 or email apprenticeship@chemeketa.edu if you have questions about the programs.

Construction Trades, General Apprenticeship, Certificate of Completion

Students may earn a Certificate of Completion by successfully completing the Construction Trades, General Apprenticeship general education requirements of 12 credit hours, plus additional credits in one area of specialization.

Construction Trades, General Apprenticeship general education requirements (12 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH095</td>
<td>Intermediate Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY101</td>
<td>Psychology of Human Relations+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR115</td>
<td>Introduction to Composition+ (or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

Plus: Choose one area of specialization (HVAC/R, Sheet Metal or Plumbing)

Construction Trades, General Apprenticeship, Associate of Applied Science Degree

You may earn an Associate of Applied Science degree by successfully completing the Construction Trades, General Apprenticeship general education requirements of 23 credit hours, plus additional credits in one area of specialization and 22 hours for proof of journey-level status.

Construction Trades, General Apprenticeship general education requirements (23 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS101</td>
<td>Computing Concepts</td>
<td>3</td>
</tr>
<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>EC202</td>
<td>Introduction to Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>MTH095</td>
<td>Intermediate Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY101</td>
<td>Psychology of Human Relations+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+ (or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

Plus: Choose one area of specialization (HVAC/R, Sheet Metal or Plumbing)

HVAC/R Specialization

In addition to tuition, estimated costs for students who complete the entire four-year HVAC/R Apprenticeship degree are program fees, $550; and universal fees, $2,000. Contact the Financial Aid Office at 503.399.5018 for information on assistance with costs.
Program Outcomes
Students completing the Construction Trades General Apprenticeship Certificate and/or AAS Degree, HVAC/R Specialization should be able to:

• Repair, install, and maintain a variety of building construction projects using trade-specific tools and techniques in compliance with building codes and Occupational Safety and Health Administration (OSHA) regulations.
• Complete 60 hours of HVAC/R trade-related coursework.
• Complete three general education courses for the certificate or six courses for the AAS, with a grade of C or better.

Getting Started
HVAC/R Apprenticeship entry requirements:
• 18 years of age or older.
• High School Diploma or GED.
• One year of high school algebra with grade “C” or better; or completion of MTH060 (or higher) at Chemeketa; or placing into MTH070 (or higher) on a college placement test.

Degree and Certificate Options
Construction Trades General Apprenticeship AAS Degree, HVAC/R Specialization requirements:
• Journey-level status in the HVAC/R industry.
• Complete a minimum of 30 credits at Chemeketa.
• Complete the general education requirements for an AAS degree.
• Complete a minimum of 90 approved credits; 22 credits are awarded for proof of journey-level status.

Construction Trades General Apprenticeship Certificate, HVAC/R Specialization Requirements
• Journey-level status in the HVAC/R industry.
• Complete a minimum of 30 credits at Chemeketa.
• Complete the required 12 HVAC/R courses and three (3) general education courses.

HVAC/R Specialization Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>APR156A</td>
<td>HVAC/R Apprenticeship Fundamentals 1</td>
<td>5</td>
</tr>
<tr>
<td>APR156B</td>
<td>HVAC/R Apprenticeship Fundamentals 2</td>
<td>5</td>
</tr>
<tr>
<td>APR156C</td>
<td>HVAC/R Apprenticeship Fundamentals 3</td>
<td>5</td>
</tr>
<tr>
<td>APR156D</td>
<td>HVAC/R Apprenticeship Intermediate 1</td>
<td>5</td>
</tr>
<tr>
<td>APR156E</td>
<td>HVAC/R Apprenticeship Intermediate 2</td>
<td>5</td>
</tr>
<tr>
<td>APR156F</td>
<td>HVAC/R Apprenticeship Intermediate 3</td>
<td>5</td>
</tr>
<tr>
<td>APR256G</td>
<td>HVAC/R Apprenticeship Intermediate 4</td>
<td>5</td>
</tr>
<tr>
<td>APR256H</td>
<td>HVAC/R Apprenticeship Intermediate 5</td>
<td>5</td>
</tr>
<tr>
<td>APR256I</td>
<td>HVAC/R Apprenticeship Intermediate 6</td>
<td>5</td>
</tr>
<tr>
<td>APR256J</td>
<td>HVAC/R Apprenticeship Advanced 1</td>
<td>5</td>
</tr>
<tr>
<td>APR256K</td>
<td>HVAC/R Apprenticeship Advanced 2</td>
<td>5</td>
</tr>
<tr>
<td>APR256L</td>
<td>HVAC/R Apprenticeship Advanced 3</td>
<td>5</td>
</tr>
</tbody>
</table>

Plumbing Specialization
Courses are limited to apprentices registered with the AREA II JATC only and are not offered for the public. In addition to tuition, estimated costs for students who complete the entire four-year Apprenticeship Plumbing degree are program fees, $400; and universal fees, $1,800. Contact the Financial Aid Office at 503.399.5018 for information on assistance with costs.

Program Outcomes
Students completing the Construction Trades General Apprenticeship Certificate and/or AAS Degree, Plumbers Specialization should be able to:

• Repair, install, and maintain a variety of building construction projects using trade-specific tools and techniques in compliance with building codes and OSHA regulations.
• Complete three general education courses for the certificate or six courses for the AAS degree with a grade of C or better.

Getting Started
Plumber Apprenticeship entry requirements:
• 18 years of age or older.
• High School Diploma or GED.
• One year of high school algebra with grade “C” or better; or completion of MTH060 (or higher) at Chemeketa; or placing into Math 60 (or higher) on a college placement test.

Degree and Certificate Options
Construction Trades General Apprenticeship AAS, Plumber Specialization requirements:
• Journey-level status in the plumbing industry.
• Complete a minimum of 30 credits at Chemeketa.
• Complete the general education requirements for an AAS degree.
• Complete a minimum of 90 approved credits; 22 credits are awarded for proof of journey-level status.

Construction Trades General Apprenticeship Certificate, Plumber Specialization requirements:
• Journey-level status in the plumbing industry.
• Complete a minimum of 30 credits at Chemeketa.
• Complete the required 64 credit hours (12 hours of general education credits listed above plus 52 hours of plumbing trade-related coursework).
Sheet Metal Specialization

In addition to tuition, estimated costs for students who complete the entire four-year Sheet Metal Apprenticeship degree are program fees, $550, and universal fees, $1,950. Contact the Financial Aid Office at 503.399.5018 for information on assistance with costs.

Program Outcomes

Students completing the Construction Trades General Apprenticeship certificate and/or AAS degree, Sheet Metal Specialization should be able to:

- Repair, Install, and maintain a variety of building construction projects using trade-specific tools and techniques in compliance with building codes and OSHA regulations.
- Complete three general education courses for the certificate or six courses for the AAS degree with a grade of C or better.

Getting Started

Sheet Metal Apprenticeship entry requirements:

- Minimum of 17 years of age.
- High School Diploma or GED.
- One year of high school algebra with grade “C” or better; or completion of MTH060 (or higher) at Chemeketa; or placing into MTH070 (or higher) on a college placement test.

Degree and Certificate Requirements

Construction Trades General Apprenticeship AAS, Sheet Metal Specialization requirements:

- Journey-level status in the sheet metal industry.
- Complete a minimum of 30 credits at Chemeketa.
- Complete the general education requirements for an AAS degree.
- Complete a minimum of 90 approved credits; 22 credits may be awarded for proof of journey-level status.

Construction Trades General Apprenticeship Certificate, Sheet Metal Specialization requirements:

- Journey-level status in the sheet metal industry.
- Complete a minimum of 30 credits at Chemeketa.
- Complete the required 69 credit hours (12 hours of general education credits listed above plus 57 hours of sheet metal trade-related coursework).

Electrician Apprenticeship Technologies AAS Degree and Certificate

In addition to tuition, estimated costs for students who complete the entire four-year degree are program fees, $100 and universal fees, $600. Contact the Financial Aid Office at 503.399.5018 for information on assistance with these costs.

Program Outcomes

Students completing the Electrician Apprenticeship Technologies Certificate and/or AAS Degree, Inside Wire Electrician specialization should be able to:

- Apply theory to electrical wiring.
- Repair and install electrical wire devices according to licensure regulations to meet National Electrical Code (NEC) and Oregon Electrical Specialty Code (OESC) standards for Inside Electrician.
- Complete three general education courses for the certificate or six courses for the AAS degree with a grade of C or better.

Getting Started

Contact IEC Oregon at 503.598.7789 or visit www.iecoregon.org for more information and program entry requirements.

Electrician Apprenticeship Technologies AAS, Inside Wire Electrician Specialization requirements:

- Journey-level status in the electrical industry.
- Complete a minimum of 30 credits at Chemeketa.
- Complete the general education requirements for an AAS degree.
- Complete a minimum of 90 approved credits; 22 credits are awarded for proof of journey-level status.

Electrician Apprenticeship Technologies Certificate, Inside Wire Electrician Specialization requirements:

- Journey-level status in the electrical industry.
- Complete a minimum of 30 credits at Chemeketa.
• Complete the required 52 program credit hours.
• Complete 12 general education requirements: MTH095 (or higher), PSY101 (or higher), and WR115 (or higher).

**Apprenticeship Related Training—Electrical (52 credit hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>APR153A</td>
<td>Electrician Apprenticeship Fundamentals</td>
<td>5</td>
</tr>
<tr>
<td>APR153B</td>
<td>Electrician Apprenticeship AC/DC Circuits</td>
<td>5</td>
</tr>
<tr>
<td>APR153C</td>
<td>Electrician Apprenticeship Measurements</td>
<td>3</td>
</tr>
<tr>
<td>APR153D</td>
<td>Electrician Apprenticeship Theory</td>
<td>5</td>
</tr>
<tr>
<td>APR153E</td>
<td>Electrician Apprenticeship Wiring and</td>
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</tr>
<tr>
<td>Print Reading</td>
<td>5</td>
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<tr>
<td>APR153F</td>
<td>Electrician Apprenticeship Residential</td>
<td>3</td>
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<tr>
<td>Installation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>APR253G</td>
<td>Electrician Apprenticeship Safety and Code</td>
<td>5</td>
</tr>
<tr>
<td>APR153H</td>
<td>Electrician Apprenticeship Motor and Controls</td>
<td>5</td>
</tr>
<tr>
<td>APR253I</td>
<td>Electrician Apprenticeship Fiber Optics</td>
<td>3</td>
</tr>
<tr>
<td>APR253J</td>
<td>Electrician Apprenticeship Math/Test Equipment</td>
<td>5</td>
</tr>
<tr>
<td>APR253K</td>
<td>Electrician Apprenticeship Voltage</td>
<td>5</td>
</tr>
<tr>
<td>APR253L</td>
<td>Electrician Apprenticeship Code and Exam Prep</td>
<td>3</td>
</tr>
</tbody>
</table>

**Inside Electrician Specialization Required Courses for the AAS Degree**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS101</td>
<td>Computing Concepts</td>
<td>3</td>
</tr>
<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>EC202</td>
<td>Introduction to Macroeconomics</td>
<td>4</td>
</tr>
<tr>
<td>MTH095+</td>
<td>Intermediate Algebra+(or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY101+</td>
<td>Psychology of Human Relations+(or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+(or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

**Art**

For discipline outcomes, see General Education Outcomes—Arts and Letters on page 54.

See also Visual Communications Program

go.chemeketa.edu/art

Chemeketa's art curriculum offers a comprehensive range of foundational courses in design, drawing, ceramics, painting, darkroom photography, and sculpture. These courses present hands-on, medium-specific techniques, while emphasizing strong design skills, practical methods of developing ideas, teamwork, and craftsmanship. Chemeketa's art history courses explore not only formal and historical approaches to the visual arts, but also the role of art in constructing social systems. All courses emphasize visual literacy, a necessary tool to navigate our increasingly complex visual world, and encourage recognition of diversity through social and cultural literacy.

Many art courses can be used to fulfill the Arts and Letters requirement of the Oregon Transfer Module (OTM) and the Associate of Arts Oregon Transfer degree (AAOT). See pages 57 and 58 of this catalog for a complete listing. As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in this academic area.

Oregon state colleges and universities offering Bachelor of Arts and/or Bachelor of Science degrees in Art are:

- Eastern Oregon University (EOU), Oregon State University (OSU), Portland State University (PSU), Southern Oregon University (SOU), University of Oregon (U of O), and Western Oregon University (WOU). WOU has majors in Art and Visual Communications. PSU has majors in Art History, Art Practices, and Graphic Design. OSU has majors in Art History, Fine Arts, Graphic Design, and Photography. U of O has majors in Art History, and Fine and Applied Arts. A five-year educational guide in art leading to the Bachelor of Fine Arts degree is offered at OSU, SOU, and U of O.

We strongly recommend developing a term-by-term plan of study. Consult the art transfer pathways for students who plan to major in art at WOU, OSU, and PSU. Contact the Visual and Performing Arts Program Chair or consult with Chemeketa’s dedicated art adviser in Advising and First Year Programs if you plan to transfer as an art major. Questions regarding Chemeketa’s art offerings may be directed to the Liberal Arts and Social Science office at 503.399.5184.

**Automotive Technology Program**

go.chemeketa.edu/automotive

Do you want to become an automotive service and repair technician? The Automotive Technology program emphasizes technical training and development of skills through the study of the various systems of the automobile. The certificates have been designed to be completed in one year or less and the degree in less than two years. The program offers instruction and training in entry-level skills, auto body repair, and auto machine shop, as well as courses in auto heating and air conditioning, welding, general education, and Cooperative Work Experience. Students in the degree program must attend full time.

The instruction, course of study, facilities, and equipment of the Automotive Technology program have been evaluated by the National Automotive Technicians Education Foundation (NATEF) and meet the National Institute for Automotive Service Excellence (ASE) Standards of Quality for the training of automobile technicians in all eight automotive specialty areas (Master Certification).

To help you work effectively with people, the program also includes written and oral communications classes and general education electives. The curriculum emphasizes related scientific, mathematical, and general mechanical principles.

**Program Outcomes**

Students completing the Automotive Body Repair certificate should be able to:

- Perform tasks related to collision repair, painting, brakes, electrical/electronic systems, suspension and steering, and heating and air conditioning systems.
- Analyze, diagnose and perform repairs related to auto body systems in I-CAR specialty areas.
- Identify and use tools, testing and measuring equipment required to perform automotive body repair.
• Perform personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment and handling, storage and disposal of chemicals in accordance with local, state, and federal safety and environmental regulations.

• Practice professional and ethical behaviors as applied to the workplace environment.

• Use industry standard automotive terminology and clarifying language to communicate orally and in writing with customers, suppliers, supervisors, and co-workers.

**Students completing the Automotive Entry Level Technician certificate should be able to:**

• Perform tasks related to electrical/electronic systems, suspension and steering and heating and air conditioning.

• Analyze, diagnose and perform repairs related to electrical/electronic systems, suspension and steering and heating and air conditioning.

• Identify and use tools, testing and measuring equipment required to perform diagnosis and repairs to electrical/electronic systems, suspension and steering and heating and air conditioning.

• Perform personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment; and handling, storage and disposal of chemicals in accordance with local, state, and federal safety and environmental regulations.

• Practice professional and ethical behaviors as applied to the workplace environment.

• Use industry standard automotive terminology and clarifying language to communicate orally and in writing with customers, suppliers, supervisors, and co-workers.

**Students completing the Automotive Machining certificate should be able to:**

• Perform tasks related to engine repair and engine machining.

• Analyze, diagnose and perform repairs related to engine repair and engine machining in the Automotive Service Excellence areas.

• Identify and use tools, testing and measuring equipment required to perform automotive machining operations.

• Perform personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment and handling, storage and disposal of chemicals in accordance with local, state, and federal safety and environmental regulations.

• Practice professional and ethical behaviors as applied to the workplace environment.

• Use industry standard automotive terminology and clarifying language to communicate orally and in writing with customers, suppliers, supervisors, and co-workers.

**Getting Started**

The Automotive Technology degree and the Auto Body Repair and Automotive Machining certificates have special admission requirements and enrollment limits. The first step to entering the program is to take the college’s free placement test and meet with Chemeketa’s Advising and First Year Programs staff. Call 503.399.5120 to schedule an appointment. There are entry-level expectations for skill levels in reading, writing, and mathematics. Your advisor will help you develop an individualized program of study. Failure to be assessed may delay your entry into program classes.

For admission to the program, an application is required. This is a separate step from the testing and assessment steps. Applications are available online, from Advising and First Year Programs, Admissions, the Applied Technologies office in Building 20, and the Automotive Technology program staff office in Building 4, Room 232. Enrollment in the Automotive Technology program is limited, and there is an early deadline for applications. All applicants must attend the Automotive Technology Orientation as a prerequisite for acceptance into the program. We recommend that you contact Chemeketa’s Advising and First Year Programs staff at 503.399.5120 or the Automotive Technology Program Chair at 503.399.6523 for details if you are considering the Automotive Technology degree, or certificates in Auto Body Repair, Automotive Machining, or Automotive Entry Level Technician. To enroll, you must have a high school diploma or GED certificate.

You may be interested in our Cooperative Work Experience program, which allows you to earn college credit for work you do relating to your program. To be eligible for on-site Cooperative Work Experience, students must maintain a 2.50 or higher GPA in Automotive Technology courses. With the approval of the Program Chair, you may enroll in AUM280B-L Cooperative Work Experience and earn college credit hours. For more information, look under Cooperative Work Experience in the catalog index.

**Automotive Body Repair Certificate of Completion**

**In addition to tuition, estimated costs for students who complete the required courses listed below are books, $424; class fees, $396; universal fee, $1,176; and equipment and supplies, $2,300. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.**

This certificate emphasizes the repair of automobile bodies and their systems. A significant portion of the training is done on the job as well as through specific lab coursework on campus. You may earn a certificate of completion by
successfully completing the required 49 credit hours with a grade of “C” or better in AUM courses.

### General Education requirements (13 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS101</td>
<td>Computing Concepts (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>MTH052</td>
<td>Introduction to Algebra/Geometry+ (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>PSY101</td>
<td>Psychology of Human Relations+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR088</td>
<td>Introduction to Technical Writing 1+</td>
<td>3</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+ (or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>

### Automotive Body Repair core requirements (21 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUM168</td>
<td>Automotive Electrical Systems 1</td>
<td>5</td>
</tr>
<tr>
<td>AUM184</td>
<td>Automotive Materials and Resources</td>
<td>2</td>
</tr>
<tr>
<td>AUM280L</td>
<td>Cooperative Work Experience</td>
<td>12</td>
</tr>
<tr>
<td>WLD197</td>
<td>Welding</td>
<td>2</td>
</tr>
<tr>
<td>WLD161</td>
<td>Basic Gas Metal Arc Welding (MIG)</td>
<td>3</td>
</tr>
</tbody>
</table>

### Automotive Body Repair electives (select a minimum of 15 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUM151</td>
<td>Basic Automotive Engines</td>
<td>5</td>
</tr>
<tr>
<td>AUM157</td>
<td>Automotive Brake Systems</td>
<td>6</td>
</tr>
<tr>
<td>AUM158</td>
<td>Automotive Steering and Suspension</td>
<td>5</td>
</tr>
<tr>
<td>AUM286</td>
<td>Automotive Heating and Air Conditioning</td>
<td>5</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

### Automotive Entry Level Technician Certificate of Completion

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $304; class fees, $396 and universal fee, $1,176. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

This certificate provides students with basic skills in key high-demand automotive repair and maintenance systems, including brakes, electrical, suspension, steering, and climate control. The certificate is designed to allow students with full-time employment or other daytime commitments the ability to attend classes and obtain a certificate in a one-year period. (There are no prerequisites or special application requirements for admission to this certificate.)

You may earn a certificate of completion by successfully completing the required 28 credit hours with a grade of “C” or better in AUM courses.

### General Education requirements (10 credit hours):

<table>
<thead>
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<th>Course</th>
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<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>MTH052</td>
<td>Introduction to Algebra/Geometry (or higher)</td>
<td>3</td>
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<tr>
<td>PSY101</td>
<td>Psychology of Human Relations (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR088</td>
<td>Introduction to Technical Writing 1</td>
<td>3</td>
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</tbody>
</table>

### Automotive Entry Level Technician core requirements (18 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUM159</td>
<td>Automotive Chassis Systems</td>
<td>5</td>
</tr>
<tr>
<td>AUM168</td>
<td>Automotive Electrical Systems 1</td>
<td>5</td>
</tr>
<tr>
<td>AUM286</td>
<td>Automotive Heating and Air Conditioning</td>
<td>5</td>
</tr>
<tr>
<td>AUM280C</td>
<td>Cooperative Work Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

### Automotive Machining Certificate of Completion

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $304; class fees, $370; universal fee, $1,392; and equipment and supplies, $2,300. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

This certificate emphasizes machining and rebuilding automotive engines. A significant portion of the training is done on the job as well as through specific lab coursework on campus.

You may earn a certificate of completion by successfully completing the required 58 credit hours with a grade of “C” or better in AUM courses.

### General Education requirements (13 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS101</td>
<td>Computing Concepts (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>MTH052</td>
<td>Introduction to Algebra/Geometry+ (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>PSY101</td>
<td>Psychology of Human Relations+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR088</td>
<td>Introduction to Technical Writing 1+</td>
<td>3</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+ (or higher)</td>
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</table>

### Automotive Machining core requirements (45 credit hours):

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<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUM151</td>
<td>Basic Automotive Engines</td>
<td>5</td>
</tr>
<tr>
<td>AUM184</td>
<td>Automotive Materials and Resources</td>
<td>2</td>
</tr>
<tr>
<td>AUM185A</td>
<td>Automotive Machining Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>AUM186A</td>
<td>Automotive Lathe Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>AUM187A</td>
<td>Automotive Milling Machine Processes</td>
<td>3</td>
</tr>
<tr>
<td>AUM188</td>
<td>Auto Machine Shop-Upper Engine</td>
<td>3</td>
</tr>
<tr>
<td>AUM189</td>
<td>Auto Machine Shop-Lower Engine</td>
<td>3</td>
</tr>
<tr>
<td>AUM190</td>
<td>Auto Machine Shop-Engine Assembly</td>
<td>3</td>
</tr>
<tr>
<td>AUM253</td>
<td>Automotive Engines 2</td>
<td>4</td>
</tr>
<tr>
<td>AUM280L</td>
<td>Cooperative Work Experience</td>
<td>12</td>
</tr>
<tr>
<td>WLD177</td>
<td>Welding Processes</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

### Automotive Technology Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $533; class fees, $939; universal fee, $2,496; and equipment and supplies, $2,300. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 105 credit hours with a grade of “C” or better in AUM courses.
Chemeketa offers a number of biology courses. Many of these courses can be used to fulfill the “Science with a lab” requirements of the Associate of Arts Oregon Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Biology

For discipline outcomes, see General Education Outcomes—Science or Computer Science on page 55.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa’s Advising and First Year Programs staff or a Chemeketa Biology faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Building Inspection Technology Program

go.chemeketa.edu/buildinginspection

The Building Inspection Technology Associate of Applied Science (AAS) degree is a two-year (seven-term) program for those interested in employment as a building inspector or plans examiner in residential and/or commercial construction. Opportunities for employment depend upon your experience and certifications. There is a need for certified building inspectors and plans examiners working for public and private agencies.

The curriculum covers technical and general education courses as you work toward an Associate of Applied Science degree. Classes on building codes, plan review, inspection techniques, and construction materials are complemented by courses in mathematics, communication skills, and public relations. Throughout the year, students are encouraged to attend professional educational conferences for code professionals at an additional cost. Students who complete the program may be eligible to receive vouchers to cover the cost of some certification tests; others will be at an additional cost.

Cooperative Work Experience (CWE) is a required component of the program. The CWE allows you to gain valuable work experience in the field while you earn college credit. With the approval of the Program Chair, you may enroll in BLD280B-L Cooperative Work Experience and earn college credit hours. For more information, look under Cooperative Work Experience in the catalog index.

The degree can be completed in 21 months if you attend full time. However, there are entry-level skill expectations for reading, writing, and mathematics. The length of time you take to complete the program will depend on your skills in these areas. To assess the time you will need to complete the program, please meet with an advisor.

This program has special admission requirements and enrollment limits. For additional information, contact the Admissions Office at 503.399.5006 or the Polk Center at 503.623.5567.
Program Outcomes

Students completing the Building Inspector certificate should be able to:

• Identify various jobs and associated work performed in a building department to gain employment.
• Navigate various codebooks to locate the appropriate section related to the specific construction practices.
• Perform inspections of buildings at various stages of construction and write correction notices and reports referencing current building codes.
• Identify different building materials and methods of construction currently used in the building industry.
• Be prepared to take International Code Council (ICC) Codes Certification tests.

Students completing the Building Inspection Technology degree should be able to:

• Identify various jobs and associated work performed in a building department to gain employment.
• Use appropriate interpersonal communication skills to achieve code compliance.
• Perform inspections of buildings at various stages of construction and write correction notices and reports referencing current building codes.
• Be prepared to take International Code Council (ICC) Codes Certification tests.
• Identify different building materials and methods of construction currently used in the building industry.
• Read and interpret blueprints and assess their compliance to the various codes.

Building Inspector Certificate of Completion

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $1,070; class fees, $1,980; universal fee, $2,352; and equipment and supplies, $180. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Building Inspector certificate provides students with knowledge and skills in commercial and residential building codes that are necessary for entry-level inspector positions. Application of code knowledge in the inspection process is stressed throughout the four terms of the certificate program. The certificate is designed for students working in the industry or those with a diverse construction background looking to move into an entry-level inspector position.

You may earn a certificate of completion by successfully completing the required 41 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>BLD141 International Residential Code 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BLD151 Building Codes 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BLD158 Construction Materials and Blueprints</td>
<td>2</td>
</tr>
<tr>
<td>Term 2</td>
<td>BLD142 International Residential Code 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BLD152 Building Codes 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BLD161 Structural Inspection 1</td>
<td>3</td>
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<tr>
<td></td>
<td>BLD181 Mechanical Codes 1</td>
<td>3</td>
</tr>
<tr>
<td>Term 3</td>
<td>BLD153 Building Codes 3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BLD163 Structural Inspection 2</td>
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<td></td>
<td>BLD182 Mechanical Codes 2</td>
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<tr>
<td>Term 4</td>
<td>BLD280L Cooperative Work Experience (summer term)</td>
<td>12</td>
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</table>

Building Inspection Technology Associate of Applied Science

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $2,700; class fees, $1,980; universal fee, $2,352; and equipment and supplies, $375. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an Associate of Applied Science degree by successfully completing these 98 required credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>BLD141 International Residential Code 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BLD151 Building Codes 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BLD158 Construction Materials and Blueprints</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CIS101 Computing Concepts</td>
<td>3</td>
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<tr>
<td></td>
<td>MTH052 Introduction to Algebra/Geometry+ (or higher)</td>
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<tr>
<td>Term 2</td>
<td>BLD142 International Residential Code 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BLD152 Building Codes 2</td>
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<tr>
<td></td>
<td>BLD161 Structural Inspection 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BLD181 Mechanical Codes 1</td>
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<td></td>
<td>FE205B Resumes and Job Search Correspondence</td>
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<tr>
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<td>MTH053 Introduction to Trigonometry/Geometry (or higher)</td>
<td>3</td>
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<tr>
<td>Term 3</td>
<td>BLD153 Building Codes 3</td>
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<tr>
<td></td>
<td>BLD163 Structural Inspection 2</td>
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<td></td>
<td>BLD170 ADA Accessibility Code</td>
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<td>BLD182 Mechanical Codes 2</td>
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<td></td>
<td>BLD193A Building Inspection Lab</td>
<td>2</td>
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<tr>
<td>Term 4</td>
<td>BLD280L Cooperative Work Experience (summer term)</td>
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<td>Term 5</td>
<td>BLD268 Foundations, Excavation, and Grading</td>
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<td>BLD269 Engineering for Code Professionals 1</td>
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<td>BLD273 International Fire Codes</td>
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<td>PSY104 Workplace Psychology</td>
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<td>Term 6</td>
<td>BLD155 Building Department Administration 1+</td>
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<td>BLD267 Non-Structural Plan Review</td>
<td>3</td>
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<td>BLD270 Engineering for Code Professionals 2</td>
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<tr>
<td></td>
<td>WR088 Introduction to Technical Writing 1+</td>
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<tr>
<td></td>
<td>WR121 Academic Composition+ (or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>
Management, production management, quality control and of contract management, inventory management, materials in the field of procurement, including specializations in the areas development for those interested in pursuing a position in

Chain AAS Management degree programs emphasize skill Management certificate and the Procurement and Supply for careers in sales and management. The Procurement 38-credit Retail Management certificate readies students of sustainability and responsible management practices. The enter the business environment with a foundational knowledge Sustainability in Management certificate prepares students to go.chemeketa.edu/management

Business Administration
For discipline outcomes, see General Education Outcomes beginning on page 54.

See also Accounting, and Business Management. (Includes Accounting, Finance, International Business, Marketing, Management, Procurement Management, Retail Management, and Sustainability in Management)

Chemeketa offers a number of business courses. Some of these courses may be used to fulfill the Business requirements of the Associate of Science/Oregon Transfer–Business degree. See page 60 of this catalog for a complete listing.

Oregon's state universities offering a Bachelor of Arts and/or Bachelor of Science degrees in Business Administration are Oregon State University, Portland State University, Southern Oregon University, University of Oregon, and Western Oregon University. Eastern Oregon University offers a combined degree in Business and Economics.

Many colleges have specific requirements for admission to their Business Administration programs. These include specified GPA, completion of specific courses, and deadlines for admission. As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa's Advising and First Year Programs staff or a Chemeketa Business Administration faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Program Outcomes
Students completing the Sustainability in Management certificate should be able to:

- Demonstrate an understanding of sustainability through the use of terms and concepts.
- Identify how sustainability connects to society as a whole.
- Know and understand responsible management (sustainability, responsibility, and ethics) through the four functions of management: planning, organizing, leading, and controlling.
- Understand sustainability-related issues and the impact on different organizations.

Students completing the Entrepreneurship and Small Business Management certificate should be able to:

- Explain how the strategic plan of a business interrelates with functional areas in order to fulfill the mission and purpose of an organization.
- Use effective communication strategies including writing, listening, speaking, negotiating, and persuading skills.
- Use technology to produce research and interpret financial, marketing, or business reports.
- Demonstrate working knowledge of relevant small business financial topics including finding sources, capital structure, cash flow, and financial planning.

Students completing the Management degree should be able to:

- Explain how the strategic plan of a business interrelates with functional areas in order to fulfill the mission and purpose of an organization.
- Work as a team member and/or leader using effective communication strategies including writing, listening, speaking, negotiating, and persuading skills.
- Use technology to produce, research, and interpret financial, marketing, or business reports.
- Identify the legal, ethical, and financial consequences of decisions to business organizations.

Students completing the Retail Management certificate should be able to:

- Use communication skills with individuals and groups in retail settings.
- Apply math and computer skills requisite with industry expectations.
- Evaluate and select marketing and retailing strategies.
- Apply basic accounting theory and practice to a service or retail setting.

See also Accounting, and Business Management.

Program Outcomes
Students completing the Sustainability in Management certificate should be able to:

- Demonstrate an understanding of sustainability through the use of terms and concepts.
- Identify how sustainability connects to society as a whole.
- Know and understand responsible management (sustainability, responsibility, and ethics) through the four functions of management: planning, organizing, leading, and controlling.
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See page 60 of this catalog for a complete listing.

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- Use technology to produce research and interpret financial, marketing, or business reports.
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• Explain the impact, roles, skills, responsibilities, and accountability of supervisors/managers in managing, leading, and controlling human resources within an organization.

Students completing the Procurement Management certificate should be able to:
• Demonstrate a basic understanding of procurement and supply chain literacy through use of terms and concepts.
• Apply math and computer skills requisite with industry expectations.
• Apply industry standards in making ethical decisions in situations involving procurement and supply chain activities.
• Use procurement sourcing methods to locate supplies or services through market research.
• Apply project management tools and processes for on-time and on-budget completion of projects.
• Relate contract administration and management activities to procurement practices.

In addition to the Procurement Management certificate outcomes, students completing the Procurement and Supply Chain Management degree should be able to:
• Identify systems that track and control the acquisition and movement of goods and services.
• Use communication skills with individuals and groups in procurement-related settings.

Sustainability in Management Certificate of Completion

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $350; class fees, $150; and universal fee, $288. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

Providing an interdisciplinary approach, this certificate integrates sustainable development and environmentalism with business management strategy to achieve corporate social responsibility. The certificate will provide an educational foundation in the sustainability issues and concepts addressed in today’s business setting and will prepare students to seek employment in organizations that strive to better care for the environment.

You may earn a certificate of completion by successfully completing the required 12 credit hours with a grade of “C” or better in all courses.

Course Title Credit Hours
BA101 Introduction to Business.......................... 4
BA214 Business Communications+.......................... 3
BA226 Business Law 1 ........................................... 4
BA234 Fundamentals of Supply Chain Management........ 4
BA235 Procurement for State and Local Government ...... 4
BA236 Contract Management .................................. 4
BA277 Business Ethics ............................................. 3
BA287 Principles of Project Management .................... 4
COMM111 Fundamentals of Public Speaking (or higher) ...... 4
PSY101 Psychology of Human Relations+ .................... 4
or
PSY201 Psychology: Mind and Body (or higher) ................ 4
or
SOC204 The Sociological Perspective+ (or higher) ............ 4

*Placement determined by testing. Lower division collegiate classes may be substituted.

Retail Management Certificate of Completion

In addition to tuition, estimated costs for students who complete the required courses listed below are books and software, $1,500; class fees, $150; universal fee, $912; and equipment and supplies, $200. Please contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Retail Management certificate emphasizes skill development in interpersonal communication, business accounting, marketing, human resource management, and supervision, and focuses on professional growth, employment, and advancement opportunities. This certificate fulfills coursework leading to an associate of applied science degree in Management.

As part of a statewide cooperative effort, this certificate is also offered by other community colleges, including Clackamas, Lane, Linn-Benton, Oregon Coast, Mt. Hood, and Portland.

You may earn a certificate of completion by successfully completing the required 38 credit hours with a grade of “C” or better in all courses. The following courses may be taken in any order providing prerequisites are met.

Procurement Management Certificate of Completion

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $1,500; class fees, $200; universal fee, $1,104; and equipment and supplies, $200. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.
Entrepreneurship and Small Business Management

In addition to tuition, estimated costs for students who complete the required courses listed below are books and software, $1,500; and universal fee, $864. Please contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Entrepreneurship and Small Business Management certificate prepares students for self-employment, provides career opportunities in managing a small business or participating in family-owned businesses, and gives students the skills, knowledge and resources to begin their own business. The program helps develop students' abilities to evaluate small business ideas, understand marketing resources, apply best practices in the area of human resource management, and manage the finances of a small or new business.

You may earn a certificate of completion by completing 36 credit hours with a grade of "C" or better in all courses.

Management Associate of Applied Science Degree (AAS)

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $2,500; class fees, $200; universal fee, $2,160; and equipment and supplies, $1,500. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

As a graduate of Chemeketa’s Management program, you may begin as a management trainee or other entry-level employee of a small business, mid-size organization, or large firm.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA104</td>
<td>Business Applications Using Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>BA115</td>
<td>Introduction to Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BA206</td>
<td>Business Management Principles</td>
<td>4</td>
</tr>
<tr>
<td>BA214</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BA223</td>
<td>Principles of Marketing</td>
<td>4</td>
</tr>
<tr>
<td>BA224</td>
<td>Human Resource Management</td>
<td>4</td>
</tr>
<tr>
<td>BA249</td>
<td>Principles of Retailing</td>
<td>3</td>
</tr>
<tr>
<td>BA285</td>
<td>Organizational Behavior</td>
<td>4</td>
</tr>
<tr>
<td>CIS120</td>
<td>Digital Literacy</td>
<td>4</td>
</tr>
<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking</td>
<td>4</td>
</tr>
</tbody>
</table>

**Entrepreneurship and Small Business Management**

You may earn an associate of applied science degree by successfully completing the required 90 credit hours with a grade of "C" or better in all courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BA101</td>
<td>Introduction to Business</td>
<td>4</td>
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<tr>
<td>BA211</td>
<td>Financial Accounting</td>
<td>4</td>
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<tr>
<td>CIS101</td>
<td>Computing Concepts</td>
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<tr>
<td>CIS120</td>
<td>Digital Literacy</td>
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<tr>
<td>BA131</td>
<td>Business Computing</td>
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<td>CA100</td>
<td>Beginning Computing</td>
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<td>WR121</td>
<td>Academic Composition</td>
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**Term 2**

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<tr>
<td>BA202</td>
<td>Business Management Principles</td>
<td>4</td>
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<tr>
<td>BA285</td>
<td>Organizational Behavior</td>
<td>4</td>
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<tr>
<td>CIS125E</td>
<td>Excel Workbooks</td>
<td>4</td>
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<tr>
<td>MTH095</td>
<td>Intermediate Algebra</td>
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**Term 3**

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<tr>
<td>BA214</td>
<td>Business Communications</td>
<td>3</td>
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<tr>
<td>BA224</td>
<td>Human Resource Management</td>
<td>4</td>
</tr>
<tr>
<td>CIS125E</td>
<td>Excel Workbooks</td>
<td>4</td>
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<tr>
<td>MTH095</td>
<td>Intermediate Algebra</td>
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**Term 4**

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<tbody>
<tr>
<td>BA223</td>
<td>Principles of Marketing</td>
<td>4</td>
</tr>
<tr>
<td>BA226</td>
<td>Business Law</td>
<td>4</td>
</tr>
<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>EC200</td>
<td>Introduction to Economics</td>
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**Term 5**

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<td>WR227</td>
<td>Technical Writing</td>
<td>4</td>
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<tr>
<td>BA222</td>
<td>Financial Management</td>
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<tr>
<td>BA224</td>
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<tr>
<td>CIS125E</td>
<td>Excel Workbooks</td>
<td>4</td>
</tr>
<tr>
<td>MTH095</td>
<td>Intermediate Algebra</td>
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**Term 6**

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<td>Business Ethics</td>
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<tr>
<td>BA224</td>
<td>Human Resource Management</td>
<td>4</td>
</tr>
<tr>
<td>BA227</td>
<td>Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>BA277</td>
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<tr>
<td>CIS125E</td>
<td>Excel Workbooks</td>
<td>4</td>
</tr>
<tr>
<td>MTH095</td>
<td>Intermediate Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

*Placement determined by testing. Lower division collegiate courses may be substituted.

**Business electives: Choose BA or EC courses numbered 200 or above or CA200.

***Choose CIS102A or higher, or CA200 or higher.
Procurement and Supply Chain Management
Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the required courses listed below are books and software, $2,500; class fees, $200; universal fee, $2,208; and equipment and supplies, $1,500. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

Graduates of the Procurement and Supply Chain Management degree may find employment in local, state, or federal government agencies, or in the private sector in a variety of settings ranging from health care to manufacturing and every kind of enterprise in between.

You may earn an associate of applied science degree by successfully completing the required 92 credit hours with a grade of “C” or better in all courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BA101</td>
<td>Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td>BA202</td>
<td>Personal Effectiveness in Business</td>
<td>3</td>
</tr>
<tr>
<td>BA211</td>
<td>Financial Accounting 1</td>
<td>4</td>
</tr>
<tr>
<td>BA212</td>
<td>Financial Accounting 2</td>
<td>4</td>
</tr>
<tr>
<td>BA213</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BA214</td>
<td>Business Communications+*</td>
<td>3</td>
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<tr>
<td>BA226</td>
<td>Business Law I</td>
<td>4</td>
</tr>
<tr>
<td>BA227</td>
<td>Business Law 2</td>
<td>3</td>
</tr>
<tr>
<td>BA231</td>
<td>Fundamentals of Transportation and Logistics Management</td>
<td>4</td>
</tr>
<tr>
<td>BA234</td>
<td>Fundamentals of Supply Chain Management</td>
<td>4</td>
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<tr>
<td>BA235</td>
<td>Procurement for State and Local Government</td>
<td>4</td>
</tr>
<tr>
<td>BA236</td>
<td>Contract Management</td>
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<td>BA277</td>
<td>Business Ethics</td>
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<td>BA286</td>
<td>Negotiations</td>
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<tr>
<td>BA287</td>
<td>Principles of Project Management</td>
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</tr>
<tr>
<td>CIS125E</td>
<td>Excel-Workbooks</td>
<td>4</td>
</tr>
<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking (or higher)</td>
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</tr>
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<td>EC200</td>
<td>Introduction to Economics (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>MTH105</td>
<td>Math in Society+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY101</td>
<td>Psychology of Human Relations+</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
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<tr>
<td>PSY201</td>
<td>Psychology: Mind and Body+ (or higher)</td>
<td>4</td>
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<tr>
<td>or</td>
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<tr>
<td>SOC204</td>
<td>The Sociological Perspective+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR227</td>
<td>Technical Writing</td>
<td>4</td>
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<tr>
<td>or</td>
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<tr>
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<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business elective**</td>
<td>9</td>
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</tr>
</tbody>
</table>

+Meets related instruction requirement.
*Placement in Math and Writing courses determined by testing.
**Business electives: Choose BA or EC courses at the 200 level or above.

The Business Software certificate is designed for individuals who wish to update their business software skills in applications including word processing, spreadsheets, presentations, and databases. The Office Fundamentals certificate is offered for people who want to develop or refresh their skills in order to qualify for entry-level office work. The Virtual Office Assistant certificate (program approval only) is for those who already have administrative office experience and want to obtain the skills necessary to work as an independent contractor from home or another office site. The Business Technology certificate prepares individuals to become entry-level office support specialists. Students may earn any of the certificates by successfully completing the credit hours required.

The two-year degrees are designed for those who want to become administrative assistants, secretaries, executive assistants, and support specialists. There are four degrees: Administrative Office Professional, Accounting Administrative Assistant, Medical Administrative Assistant, Virtual Office Assistant. Students may earn an associate of applied science degree by successfully completing the credit hours required for each degree.

Program Outcomes

Students completing the Business Software certificate should be able to:

- Utilize a wide range of software knowledge in a variety of settings.
- Integrate computer, computation, and communication skills to accomplish personal and professional tasks.

Students completing the Business Technology certificate should be able to:

- Compose and accurately produce and proofread business documents using appropriate software and equipment within specified timelines.
- Follow professional business procedures and standards.
- Store, locate, and retrieve information to support office personnel.
- Integrate computer, computation, and communication skills to accomplish office tasks.

Students completing the Office Fundamentals certificate should be able to:

- Accurately produce and proofread business documents.
- Follow professional business procedures and standards.
- Store, locate, and retrieve information to support office personnel.

Students completing the Accounting Administrative Assistant degree should be able to:

- Compose, proofread, and produce business documents using appropriate software and equipment to meet mailability standards within specified timelines.
- Follow professional business procedures and standards.
- Integrate computer, computation, communication, and critical thinking skills to accomplish complex office tasks, enter bookkeeping data, prepare and review financial records, and solve problems.

Business Technology
Program

bt.chemeketa.edu

Chemeketa offers certificates and degrees in Business Technology for those who wish to pursue a career in a business office environment. All of the Business Technology courses are offered online at least once per school year. Most certificates and degrees can be completed online.
• Apply knowledge of the internal organization and management of an office.
• Work both independently and as part of a team.

Students completing the Administrative Office Professional degree should be able to:
• Compose, proofread, and produce a wide range of business documents using appropriate software and equipment to meet mailability standards within specified timelines.
• Follow professional business procedures and standards.
• Store, retrieve, distribute, and manage information to support office and management personnel.
• Integrate computer, computation, communication, and critical thinking skills to accomplish complex office tasks and solve problems.
• Apply knowledge of the internal organization and management of an office.
• Work both independently and as part of a team.
• Compose, proofread, and produce a wide range of business documents using appropriate software and equipment to meet mailability standards within specified timelines.
• Follow professional business procedures and standards.
• Store, retrieve, distribute, and manage information to provide virtual support to office and management personnel.
• Integrate computer, computation, communication, and critical thinking skills to accomplish complex office tasks and solve problems.
• Apply knowledge of the internal organization and management of an office.
• Work both independently and as part of a team in a virtual office environment.

Students completing the Virtual Office Assistant certificate or degree should be able to:
• Compose, proofread, and produce a wide range of business documents using appropriate software and equipment to meet mailability standards within specified timelines.
• Follow professional business procedures and standards.
• Store, retrieve, distribute, and manage information to provide virtual support to office and management personnel.
• Integrate computer, computation, communication, and critical thinking skills to accomplish complex office tasks and solve problems.
• Apply knowledge of the internal organization and management of an office.
• Work both independently and as part of a team in a virtual office environment.

Students completing the Medical Administrative Assistant degree should be able to:
• Compose, proofread, and accurately produce medical and other business documents using appropriate software and equipment within specified timelines.
• Follow professional business procedures and standards.
• Store, retrieve, distribute, and manage information to support office and management personnel.
• Integrate computer, computation, communication, and critical thinking skills to accomplish medical office tasks and solve problems.
• Work both independently and as part of a team.
• Determine the relationships among law, ethics, and health care professionals.

Many courses have prerequisites; check the course descriptions in the back of this catalog for details.

If you have questions about the requirements, contact the Business Technology Program Chair at barbara.johansen@chemeketa.edu or call the department office at 503.399.5048.

Business Software Certificate of Completion

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $659; class fees, $81; universal fee, $432; and equipment and supplies, $100. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

This certificate is designed for those who wish to update their computer software skills. All of the required courses are offered online at least once per year.

You may earn a certificate of completion by successfully completing the required 18 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>CA117</td>
<td>Microsoft Publisher</td>
<td>3</td>
</tr>
<tr>
<td>CA118B</td>
<td>Excel Basics</td>
<td>3</td>
</tr>
<tr>
<td>CA118C1</td>
<td>Access Basics 1</td>
<td>1</td>
</tr>
<tr>
<td>CA118C2</td>
<td>Access Basics 2</td>
<td>1</td>
</tr>
<tr>
<td>CA118F1</td>
<td>PowerPoint Basics 1</td>
<td>1</td>
</tr>
<tr>
<td>CA201D</td>
<td>Microsoft Word Processing 1</td>
<td>3</td>
</tr>
<tr>
<td>CA202D</td>
<td>Microsoft Word Processing 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Business Software electives*</td>
<td></td>
</tr>
</tbody>
</table>

*Business Software electives (Select 3 credit hours minimum)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA131</td>
<td>Business Computing</td>
<td>4</td>
</tr>
<tr>
<td>CA100</td>
<td>Beginning Computing</td>
<td>3</td>
</tr>
<tr>
<td>CA119</td>
<td>Exploring Office Desktop Publishing</td>
<td>4</td>
</tr>
<tr>
<td>CA121</td>
<td>Keyboarding</td>
<td>3</td>
</tr>
<tr>
<td>CA208</td>
<td>Workplace Presentations Using PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>CA220</td>
<td>QuickBooks-Computerized Bookkeeping</td>
<td>3</td>
</tr>
</tbody>
</table>

*Some of these courses have prerequisites. Check the course descriptions in the back of this catalog for details.

Business Technology Certificate of Completion

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $1,553; class fees, $151; universal fee, $1,416; and equipment and supplies, $200. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

This certificate prepares you to work as a general office clerk, receptionist, file clerk, secretary, records retention specialist, office specialist, bookkeeping assistant, and/or accounting clerk. All of the required courses are offered online at least once per year.
You may earn a certificate of completion by successfully completing the required 59 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>BA104</td>
<td>Business Applications Using Mathematics+</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>MTH060 Introductory Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>BA115</td>
<td>Introduction to Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BT104</td>
<td>Business English 1</td>
<td>3</td>
</tr>
<tr>
<td>BT105</td>
<td>Business English 2</td>
<td>3</td>
</tr>
<tr>
<td>BT116</td>
<td>Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>BT123</td>
<td>Minute-Taking, Level 1</td>
<td>2</td>
</tr>
<tr>
<td>BT128</td>
<td>Introduction to Records Management</td>
<td>3</td>
</tr>
<tr>
<td>BT186</td>
<td>Personal and Professional Development</td>
<td>3</td>
</tr>
<tr>
<td>BT210</td>
<td>Professional Communications Skills+</td>
<td>4</td>
</tr>
<tr>
<td>BT230</td>
<td>Organization Performance and Customer Service+</td>
<td>3</td>
</tr>
<tr>
<td>BT280B</td>
<td>Cooperative Work Experience</td>
<td>2</td>
</tr>
<tr>
<td>CA100</td>
<td>Beginning Computing</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BA131 Business Computing</td>
<td>4</td>
</tr>
<tr>
<td>CA117</td>
<td>Microsoft Publisher</td>
<td>3</td>
</tr>
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<td>CA118B</td>
<td>Excel Basics</td>
<td>3</td>
</tr>
<tr>
<td>CA118C1</td>
<td>Access Basics 1</td>
<td>1</td>
</tr>
<tr>
<td>CA121</td>
<td>Keyboarding</td>
<td>3</td>
</tr>
<tr>
<td>CA122</td>
<td>Keyboard Skillbuilding</td>
<td>3</td>
</tr>
<tr>
<td>CA201D</td>
<td>Microsoft Word Processing 1</td>
<td>3</td>
</tr>
<tr>
<td>CA202D</td>
<td>Microsoft Word Processing 2</td>
<td>3</td>
</tr>
<tr>
<td>CA213</td>
<td>Integrating Office Procedures</td>
<td>3</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

**Office Fundamentals Certificate of Completion**

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $1,132; class fees, $168; universal fee, $912; and equipment and supplies, $150. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

This certificate allows you to concentrate on developing the basic skills required of a receptionist, file clerk, and/or an employee in other related positions. All of the required courses are offered online at least once per year. This certificate is designed for individuals with prior administrative assistant experience who are seeking the necessary coursework and practical experience to work as an independent contractor. All of the required courses are offered online at least once per year. Certificate admittance is granted only through program faculty approval.

For more information, contact Business Technology Program Chair at barbara.johansen@chemeketa.edu or call the department office at 503.399.5048.

You may earn a certificate of completion by successfully completing the required 39 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BA115</td>
<td>Introduction to Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BA209</td>
<td>Introduction to Social Media Marketing</td>
<td>4</td>
</tr>
<tr>
<td>BA223</td>
<td>Principles of Marketing</td>
<td>4</td>
</tr>
<tr>
<td>BA226</td>
<td>Business Law 1</td>
<td>4</td>
</tr>
<tr>
<td>BA251</td>
<td>Office Management</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BA250 Small Business and Entrepreneurship</td>
<td>4</td>
</tr>
<tr>
<td>BA206</td>
<td>Business Management Principles</td>
<td>4</td>
</tr>
<tr>
<td>BT272</td>
<td>Virtual Office 1</td>
<td>4</td>
</tr>
<tr>
<td>CA117</td>
<td>Microsoft Publisher</td>
<td>3</td>
</tr>
<tr>
<td>CA119</td>
<td>Office Desktop Publishing 1</td>
<td>4</td>
</tr>
<tr>
<td>CA208</td>
<td>Workplace Presentations Using PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CA118F1 PowerPoint Basics</td>
<td>1</td>
</tr>
<tr>
<td>CA220</td>
<td>QuickBooks-Computerized Bookkeeping</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Virtual Office Assistant elective*</td>
<td>3</td>
</tr>
</tbody>
</table>
Accounting Administrative Assistant Associate of Applied Science Degree Option

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $2,722; class fees, $364; universal fee, $2,256; and equipment and supplies, $400. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Accounting Administrative Assistant degree prepares you for office positions where bookkeeping tasks are emphasized.

This degree provides you with basic education in bookkeeping—both manual and computerized—in addition to training in office skills such as customer service, software applications, office procedures, records management, and office management. All of these required courses are offered online at least once per year.

You may earn an associate of applied science degree by successfully completing the required 94 credit hours with a grade of “C” or better in all courses.

Accounting Administrative Assistant first-year core requirements (46 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA115</td>
<td>Introduction to Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BT104</td>
<td>Business English 1</td>
<td>3</td>
</tr>
<tr>
<td>BT105</td>
<td>Business English 2</td>
<td>3</td>
</tr>
<tr>
<td>BT116</td>
<td>Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>BT123</td>
<td>Minute-Taking, Level 1</td>
<td>2</td>
</tr>
<tr>
<td>CA118C1</td>
<td>Access Basics 1</td>
<td>1</td>
</tr>
<tr>
<td>CA118C2</td>
<td>Access Basics 2</td>
<td>1</td>
</tr>
<tr>
<td>BT128</td>
<td>Introduction to Records Management</td>
<td>3</td>
</tr>
<tr>
<td>BT186</td>
<td>Personal and Professional Development</td>
<td>3</td>
</tr>
<tr>
<td>BT210</td>
<td>Professional Communication Skills+</td>
<td>4</td>
</tr>
<tr>
<td>CA100</td>
<td>Beginning Computing</td>
<td>3</td>
</tr>
<tr>
<td>BA131</td>
<td>Business Computing</td>
<td>4</td>
</tr>
<tr>
<td>CA118B</td>
<td>Excel Basics</td>
<td>3</td>
</tr>
<tr>
<td>CA121</td>
<td>Keyboarding</td>
<td>3</td>
</tr>
<tr>
<td>CA122</td>
<td>Keyboard Skillbuilding</td>
<td>3</td>
</tr>
<tr>
<td>CA201D</td>
<td>Microsoft Word Processing 1</td>
<td>3</td>
</tr>
<tr>
<td>CA202D</td>
<td>Microsoft Word Processing 2</td>
<td>3</td>
</tr>
<tr>
<td>CA213</td>
<td>Integrating Office Procedures</td>
<td>3</td>
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</tbody>
</table>

Accounting Administrative Assistant second-year core requirements (48 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tr>
<td>BA101</td>
<td>Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td>BA104</td>
<td>Business Applications Using Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MTH070</td>
<td>Elementary Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>BA177</td>
<td>Payroll</td>
<td>4</td>
</tr>
<tr>
<td>BA211</td>
<td>Financial Accounting 1</td>
<td>4</td>
</tr>
<tr>
<td>BA214</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BA226</td>
<td>Business Law 1</td>
<td>4</td>
</tr>
<tr>
<td>BA251</td>
<td>Office Management</td>
<td>3</td>
</tr>
<tr>
<td>BT230</td>
<td>Organization Performance and Customer Service+</td>
<td>3</td>
</tr>
<tr>
<td>BT271</td>
<td>Administrative Capstone Projects</td>
<td>4</td>
</tr>
<tr>
<td>BT280C</td>
<td>Cooperative Work Experience</td>
<td>3</td>
</tr>
<tr>
<td>CA117</td>
<td>Microsoft Publisher</td>
<td>3</td>
</tr>
<tr>
<td>CA119</td>
<td>Office Desktop Publishing</td>
<td>4</td>
</tr>
<tr>
<td>CA208</td>
<td>Workplace Presentations Using PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>CA220</td>
<td>QuickBooks-Computerized Bookkeeping</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education Elective</td>
<td></td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

Administrative Office Professional Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $2,255; class fees, $69; universal fee, $2,208; and equipment and supplies, $400. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Administrative Office Professional degree prepares you for a variety of positions in administrative support. This work requires you to be able to organize a variety of tasks, accept responsibility, and work effectively as a team member. The degree emphasizes project management; Internet/intranet communications and research; document production and retrieval; customer service; business writing; efficient use of a variety of software packages; and public relations. All of these required courses are offered online at least once per year.

As a statewide cooperative effort among several Oregon community colleges, this degree is transferable to other participating schools. Consult with a Business Technology faculty advisor on course transferability.

You may earn an associate of applied science degree by successfully completing the required 92 credit hours with a grade of “C” or better in all courses.
Administrative Office Professional first-year core requirements (47 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT104</td>
<td>Business English 1</td>
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<td>BT105</td>
<td>Business English 2</td>
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<td>BT116</td>
<td>Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>BT123</td>
<td>Minute-Taking, Level 1</td>
<td>2</td>
</tr>
<tr>
<td>BT128</td>
<td>Introduction to Records Management</td>
<td>3</td>
</tr>
<tr>
<td>BT186</td>
<td>Personal and Professional Development</td>
<td>3</td>
</tr>
<tr>
<td>BT210</td>
<td>Professional Communication Skills</td>
<td>4</td>
</tr>
<tr>
<td>CA100</td>
<td>Beginning Computing</td>
<td>3</td>
</tr>
<tr>
<td>BA131</td>
<td>Business Computing</td>
<td>4</td>
</tr>
<tr>
<td>CA117</td>
<td>Microsoft Publisher</td>
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</tr>
<tr>
<td>CA118B</td>
<td>Excel Basics</td>
<td>3</td>
</tr>
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<td>Keyboarding</td>
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<td>CA122</td>
<td>Keyboard Skillbuilding</td>
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</tr>
<tr>
<td>CA213</td>
<td>Integrating Office Procedures</td>
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</table>

Administrative Office Professional second-year core requirements (45 credit hours):

<table>
<thead>
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<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA101</td>
<td>Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td>BA104</td>
<td>Business Applications Using Mathematics+</td>
<td>4</td>
</tr>
<tr>
<td>MTH070</td>
<td>Elementary Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>BA115</td>
<td>Introduction to Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BA214</td>
<td>Business Communications+</td>
<td>3</td>
</tr>
<tr>
<td>BA226</td>
<td>Business Law 1</td>
<td>4</td>
</tr>
<tr>
<td>BA251</td>
<td>Office Management</td>
<td>3</td>
</tr>
<tr>
<td>BT230</td>
<td>Organization Performance and Customer Service+</td>
<td>3</td>
</tr>
<tr>
<td>BT271</td>
<td>Administrative Capstone Projects</td>
<td>4</td>
</tr>
<tr>
<td>BT280C</td>
<td>Cooperative Work Experience</td>
<td>3</td>
</tr>
<tr>
<td>CA119</td>
<td>Office Desktop Publishing 1</td>
<td>4</td>
</tr>
<tr>
<td>CA208</td>
<td>Workplace Presentations using PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>CA220</td>
<td>QuickBooks-Computerized Bookkeeping</td>
<td>3</td>
</tr>
<tr>
<td>CA209</td>
<td>General Election Elective</td>
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</tbody>
</table>

Virtual Office Assistant second-year core requirements (46 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA101</td>
<td>Introduction to Business</td>
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</tr>
<tr>
<td>BA104</td>
<td>Business Applications Using Mathematics+</td>
<td>4</td>
</tr>
<tr>
<td>MTH070</td>
<td>Elementary Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>BA209</td>
<td>Introduction to Social Media Marketing</td>
<td>4</td>
</tr>
<tr>
<td>BA214</td>
<td>Business Communications+</td>
<td>3</td>
</tr>
<tr>
<td>BA223</td>
<td>Principles of Marketing</td>
<td>4</td>
</tr>
<tr>
<td>BA226</td>
<td>Business Law 1</td>
<td>4</td>
</tr>
<tr>
<td>BA251</td>
<td>Office Management</td>
<td>3</td>
</tr>
<tr>
<td>BA250</td>
<td>Small Business and Entrepreneurship</td>
<td>4</td>
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<tr>
<td>BA206</td>
<td>Business Management Principles</td>
<td>4</td>
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<tr>
<td>BT230</td>
<td>Organization Performance and Customer Service+</td>
<td>3</td>
</tr>
<tr>
<td>BT272</td>
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</tr>
<tr>
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</tr>
<tr>
<td>CA220</td>
<td>General Education Elective</td>
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</tbody>
</table>

Virtual Office Assistant degree option

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $2,260; class fees, $326; universal fee, $2,232; and equipment and supplies, $400. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Virtual Office Assistant degree prepares you for positions in which you provide clients with remote administrative office assistance from a home or other office. Virtual office assisting requires the ability to organize a variety of tasks and accept business responsibility. Often, virtual office assistants are self-employed professionals operating as independent contractors. Consequently, course content covers establishing a business; being aware of legal requirements; developing marketing tools and a business website; utilizing management skills; employing social media outlets; implementing accounting procedures; producing printed materials using desktop publishing software; and exploring all aspects of virtual office assisting as a career field. All of these required courses are offered online at least once per year.

You may earn an associate of applied science degree by successfully completing the required 93 credit hours with a grade of “C” or better in all courses.

Virtual Office Assistant first-year core requirements (47 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA115</td>
<td>Introduction to Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BT104</td>
<td>Business English 1</td>
<td>3</td>
</tr>
<tr>
<td>BT105</td>
<td>Business English 2</td>
<td>3</td>
</tr>
<tr>
<td>BT116</td>
<td>Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>BT128</td>
<td>Introduction to Records Management</td>
<td>3</td>
</tr>
<tr>
<td>BT186</td>
<td>Personal and Professional Development</td>
<td>3</td>
</tr>
<tr>
<td>BT210</td>
<td>Professional Communication Skills</td>
<td>4</td>
</tr>
<tr>
<td>CA100</td>
<td>Beginning Computing</td>
<td>3</td>
</tr>
<tr>
<td>CA102</td>
<td>Personal Computing</td>
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</tr>
<tr>
<td>BA131</td>
<td>Business Computing and Applications</td>
<td>4</td>
</tr>
<tr>
<td>CA118B</td>
<td>Excel Basics</td>
<td>3</td>
</tr>
<tr>
<td>CA118C1</td>
<td>Access Basics 1</td>
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<tr>
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</tr>
<tr>
<td>CA208</td>
<td>Workplace Presentations using PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>CA121</td>
<td>Keyboarding</td>
<td>3</td>
</tr>
<tr>
<td>CA122</td>
<td>Keyboard Skillbuilding</td>
<td>3</td>
</tr>
<tr>
<td>CA201D</td>
<td>Microsoft Word Processing 1</td>
<td>3</td>
</tr>
<tr>
<td>CA202D</td>
<td>Microsoft Word Processing 2</td>
<td>3</td>
</tr>
<tr>
<td>CA213</td>
<td>Integrating Office Procedures</td>
<td>3</td>
</tr>
</tbody>
</table>

Virtual Office Assistant second-year core requirements (46 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA101</td>
<td>Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td>BA104</td>
<td>Business Applications Using Mathematics+</td>
<td>4</td>
</tr>
<tr>
<td>MTH070</td>
<td>Elementary Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>BA209</td>
<td>Introduction to Social Media Marketing</td>
<td>4</td>
</tr>
<tr>
<td>BA214</td>
<td>Business Communications+</td>
<td>3</td>
</tr>
<tr>
<td>BA223</td>
<td>Principles of Marketing</td>
<td>4</td>
</tr>
<tr>
<td>BA226</td>
<td>Business Law 1</td>
<td>4</td>
</tr>
<tr>
<td>BA251</td>
<td>Office Management</td>
<td>3</td>
</tr>
<tr>
<td>BA250</td>
<td>Small Business and Entrepreneurship</td>
<td>4</td>
</tr>
<tr>
<td>BA206</td>
<td>Business Management Principles</td>
<td>4</td>
</tr>
<tr>
<td>BT230</td>
<td>Organization Performance and Customer Service+</td>
<td>3</td>
</tr>
<tr>
<td>BT272</td>
<td>Virtual Office 1</td>
<td>4</td>
</tr>
<tr>
<td>CA117</td>
<td>Microsoft Publisher</td>
<td>3</td>
</tr>
<tr>
<td>CA119</td>
<td>Office Desktop Publishing 1</td>
<td>4</td>
</tr>
<tr>
<td>CA220</td>
<td>QuickBooks-Computerized Bookkeeping</td>
<td>3</td>
</tr>
<tr>
<td>CA220</td>
<td>General Education Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.
Medical Administrative Assistant Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $2,504; class fees, $226; universal fee, $2,328; and equipment and supplies, $400. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Medical Administrative Assistant degree prepares you to work in medical offices where you may make appointments, manage records, meet patients, type correspondence, transcribe patient records, maintain financial records, and complete insurance forms. Most of these required courses are offered online at least once per year. Due to the confidential nature of medical office records, a background check may be required of students for this degree.

You may earn an associate of applied science degree by successfully completing the required 97 credit hours with a grade of “C” or better in all courses.

Medical Administrative Assistant first-year core requirements (51 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI121</td>
<td>Introduction to Anatomy and Physiology 1</td>
<td>4</td>
</tr>
<tr>
<td>BI122</td>
<td>Introduction to Anatomy and Physiology 2</td>
<td>4</td>
</tr>
<tr>
<td>BT104</td>
<td>Business English 1</td>
<td>3</td>
</tr>
<tr>
<td>BT105</td>
<td>Business English 2</td>
<td>3</td>
</tr>
<tr>
<td>BT186</td>
<td>Personal and Professional Development</td>
<td>3</td>
</tr>
<tr>
<td>BT210</td>
<td>Professional Communication Skills</td>
<td>4</td>
</tr>
<tr>
<td>CA100</td>
<td>Beginning Computing</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA131</td>
<td>Business Computing</td>
<td>4</td>
</tr>
<tr>
<td>CA118B</td>
<td>Excel Basics</td>
<td>3</td>
</tr>
<tr>
<td>CA118C1</td>
<td>Access Basics 1</td>
<td>1</td>
</tr>
<tr>
<td>CA118C2</td>
<td>Access Basics 2</td>
<td>1</td>
</tr>
<tr>
<td>CA121</td>
<td>Keyboarding</td>
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<tr>
<td>CA122</td>
<td>Keyboard Skillbuilding</td>
<td>3</td>
</tr>
<tr>
<td>CA201D</td>
<td>Microsoft Word Processing 1</td>
<td>3</td>
</tr>
<tr>
<td>CA202D</td>
<td>Microsoft Word Processing 2</td>
<td>3</td>
</tr>
<tr>
<td>CA213</td>
<td>Integrating Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>HM120</td>
<td>Medical Terminology 1</td>
<td>3</td>
</tr>
<tr>
<td>HM121</td>
<td>Medical Terminology 2</td>
<td>4</td>
</tr>
</tbody>
</table>

Medical Administrative Assistant second-year core requirements (46 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA104</td>
<td>Business Applications Using Mathematics+</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>MTH070</td>
<td>Elementary Algebra+ (or higher)</td>
</tr>
<tr>
<td>BA115</td>
<td>Introduction to Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BA214</td>
<td>Business Communications+</td>
<td>3</td>
</tr>
<tr>
<td>BT123</td>
<td>Minute-Taking, Level 1</td>
<td>2</td>
</tr>
<tr>
<td>BT128</td>
<td>Introduction to Records Management</td>
<td>3</td>
</tr>
<tr>
<td>BT230</td>
<td>Organization Performance and Customer Service+</td>
<td>3</td>
</tr>
<tr>
<td>BT271</td>
<td>Administrative Capstone Projects</td>
<td>4</td>
</tr>
<tr>
<td>BT280C</td>
<td>Cooperative Work Experience</td>
<td>3</td>
</tr>
<tr>
<td>CA117</td>
<td>Microsoft Publisher</td>
<td>3</td>
</tr>
<tr>
<td>CA119</td>
<td>Exploring Office Desktop Publishing</td>
<td>4</td>
</tr>
<tr>
<td>CA208</td>
<td>Workplace Presentations Using PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>HM101</td>
<td>Medical Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>HM114</td>
<td>CPT Coding and Reimbursement</td>
<td>3</td>
</tr>
<tr>
<td>HM115</td>
<td>ICD-10-CM Coding/Diagnosis</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

Chemistry

For discipline outcomes, see General Education Outcomes—Science or Computer Science on page 55.

Chemeketa offers a number of chemistry courses. Many of these courses can be used to fulfill the Science requirements of the Associate of Arts Oregon Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Oregon’s state universities offering Bachelor of Arts and/or Bachelor of Science degrees in Chemistry are Eastern Oregon University, Oregon State University, Portland State University, Southern Oregon University, University of Oregon, and Western Oregon University. Southern Oregon University also offers a Business-Chemistry co-major.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa's Advising and First Year Programs staff or a Chemeketa Chemistry faculty advisor.

Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Communication

For discipline outcomes, see General Education Outcomes—Speech/Oral Communication or Writing on page 55.

Good communication skills are one of the best indicators of success in the workplace, in interpersonal relationships, and in public life. Concepts in communications classes help people navigate conflict, connect with people across cultural divides, inform and persuade others, and collaborate effectively in groups and teams. It is possible to major in communication
in many colleges and universities or combine a minor in communication with a major in another field.

Communication skills are sought-after areas in many fields, including; Law, Education, Marketing and public relations, Management and leadership, Politics, Nonprofit sector, Law enforcement and emergency services, Healthcare, Business, Tech sector and Media and journalism

Chemeketa's communication curriculum offers a range of foundational courses in communication. Many of these courses can be used to fulfill the requirements of the Associate of Art/ Oregon Transfer (AAOT) degree and the Associate of Science/ Oregon Transfer (ASOT) degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Oregon State colleges and universities offering Bachelor of Arts and/or Bachelor of Science degrees in Communication are Eastern Oregon University, Oregon State University, Portland State University, Southern Oregon University, University of Oregon, and Western Oregon University. Other Oregon colleges that offer Communication Bachelor's degrees include George Fox University, Linfield College, Willamette University, Lewis & Clark College, Warner Pacific University, and Oregon Tech.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa's Advising and First Year Programs staff or a Chemeketa Communication faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Computer Information Systems Program
cis.chemeketa.edu

The Computer Information Systems program offers two associate of applied science degrees: one in Cybersecurity and another in Computer Systems and Information Technology that allow students to design a customized curriculum consisting of a broad foundation of general technology courses and one or more technical specialties. These specialized degrees prepare students for a wide variety of employment opportunities in the computer information systems industry. Additionally, the Computer Information Systems program provides a broad array of professional continuing education classes and certificates for professionals already working in the field and provides technology service classes for students studying in other disciplines.

The Cybersecurity degree provides theory and technical training in this steadily growing industry. The Computer Systems and Information Technology degree, in combination with one or more specialized areas of study, prepares students for a wide variety of technical career opportunities. The Computer Programming certificate prepares traditional programmers and analysts who are responsible for all phases of program design and development. The Systems Administrator and Network Security certificate prepares students for careers in enterprise and workgroup systems administration, software and systems troubleshooting, IT technical support, corporate information systems and private computer security consulting. This certificate provides a pathway to the CompTIA A+, CompTIA Network+, LINUX+, Microsoft Certified Systems Engineer, Microsoft Certified Solutions Associate certifications. The Web Developer certificate opens the door to careers in web application design, development and administration of dynamic, data-driven web sites (Web masters and Web developers).

As a student in the program, you are expected to work with a department advisor in planning term-by-term class schedules leading toward fulfillment of all program requirements. If you plan to earn a bachelor's degree, you are responsible for learning the departmental requirements of the school to which you plan to transfer.

Program Outcomes

Students completing the degrees should be able to:

- 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.
- Install, configure, use, maintain software systems, and deal with security issues involved in a business environment.
- Configure and maintain workstation and server operating systems, and hardware resources.
- Research and interpret technical materials as they relate to areas of specialization.
- Apply project life cycle concepts to assist in finding solutions to business needs.
- Conduct and evaluate individual and small group instruction for information technology topics such as application software.

In addition to the degree outcomes, students completing the Cybersecurity degree:

- Train students in a variety of modern internet and business-oriented computer skills.
- Develop software and hardware problem-solving skills using programming logic and hands-on lab situations.
- Configure and troubleshoot access to resources, hardware devices and drivers, storage use and network connections.
- Analyze Internet security issues and apply them to network design problems.
- Design a disaster recovery plan for a real-world scenario.
- Design an appropriate risk analysis for a given business in a particular environment.

In addition to the degree outcomes, students completing the Computer Programming certificate:

- Design and implement computer software applications in various languages.
- Develop an application for an N-tiered environment.
- Evaluate, discuss, and plan software project requirements for a specific industry need.
In addition to the degree outcomes, students completing the Systems Administrator and Network Security certificate:

- Install, configure and support industry required operating systems and applications to the enterprise environment.
- Install, configure, and administer servers and their various roles as part of a secure enterprise network.
- Utilize logical analysis and enterprise tools to support remote access, resolve internal and external security breaches and develop a defendable network security plan.

In addition to the degree outcomes, students completing the Web Developer certificate:

- Design and maintain websites using a variety of software packages and editing languages.
- Evaluate accessibility, compatibility, and globalization issues in web design.
- Develop and analyze organizational web design needs through individual and group assessments.

Getting Started

The first step to entering the following programs is to take part in an assessment process, which includes taking the college’s free placement test and meeting with Chemeketa’s Advising and Counseling Services staff. You may need to complete entry-level courses. Then your advisor will help you develop an individualized program of study, which may include one or more of the following:

MTH095 Intermediate Algebra ........................................ 4
RD090 College Textbook Reading .................................. 3
WR115 Introduction to Composition ............................ 4

Note: In some cases, students can enroll in program courses without completing all of the above prerequisite courses.

If you have questions about the program requirements, contact the Computer Information System department at 503.365.4822 or email mandy.reininger@chemeketa.edu.

Cybersecurity Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $2800; class fees, $698; universal fees $2,352; equipment and supplies, $400; differential fees, $980. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 97 credit hours. You must complete all CS/CIS core required courses with a grade of “C” or better.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>CIS120</td>
<td>Digital Literacy</td>
<td>4</td>
</tr>
<tr>
<td>CIS121</td>
<td>Introduction to Programming</td>
<td>4</td>
</tr>
<tr>
<td>CIS178W</td>
<td>Fundamentals of Web Design</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition+</td>
<td>4</td>
</tr>
</tbody>
</table>

Term 2

CIS102A Cyber Security and Safety | 4
CIS140B Computer Operating Systems | 3
CIS145 Computer Hardware | 4
CIS133SC Scripting Languages | 4

Term 3

CIS140U Unix/Linux | 3
CIS179 Client-Server Networks | 4
MTH111 College Algebra | 5
PSY104 Psychology in the Workplace+ | 4

Term 4

CIS125E Excel-Workbooks | 4
CS161 Computer Science 1 | 4
CIS279 Server Management 1 | 4
CIS275 Database Management | 4

Term 5

CIS278 Data Communication | 4
CIS186 Computer Forensics | 4
CIS288 Server Management 2 | 4
CIS284 Ethical Hacking | 4

Term 6

CIS152 Routing and Switching | 4
CIS280 Cooperative Work Experience | 3
CIS289 Network Systems Management | 4
CIS283 Security+ | 4
CS271 Computer Architecture | 4

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

Computer Systems and Information Technology Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $2500; class fees, $882; universal fee $1,358; equipment and supplies, $400; differential fee, $980. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 97 credit hours. You must complete all CS/CIS core required courses with a grade of “C” or better.

General Education requirements (23 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
</table>
| COMM111 | Fundamentals of Public Speaking | 4
| MTH105 | Math in Society+ | 4
| or MTH111 | College Algebra+ | 5
| PSY104 | Workplace Psychology+ | 4
| WR121 | The College Essay+ | 4
| WR227 | Technical Writing | 4

*Arts and Letters elective
Computer Systems and Information Technology Core Requirements (54 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS102A</td>
<td>Cyber Security and Safety</td>
<td>4</td>
</tr>
<tr>
<td>CIS120</td>
<td>Digital Literacy</td>
<td>4</td>
</tr>
<tr>
<td>CIS120A</td>
<td>CIS Pathway</td>
<td>1</td>
</tr>
<tr>
<td>CIS121</td>
<td>Programming Concepts</td>
<td>4</td>
</tr>
<tr>
<td>CIS125A</td>
<td>Access - Database</td>
<td>3</td>
</tr>
<tr>
<td>CIS133SC</td>
<td>Scripting Languages</td>
<td></td>
</tr>
<tr>
<td>CIS140B</td>
<td>Computer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS140U</td>
<td>UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CIS145</td>
<td>Computer Hardware</td>
<td>4</td>
</tr>
<tr>
<td>CIS179</td>
<td>Client-Server Networks</td>
<td></td>
</tr>
<tr>
<td>CIS244</td>
<td>Systems Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CIS278</td>
<td>Data Communications</td>
<td></td>
</tr>
<tr>
<td>CIS279</td>
<td>Server Management 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS288</td>
<td>Server Management 2</td>
<td></td>
</tr>
<tr>
<td>CIS275</td>
<td>Database Management</td>
<td>4</td>
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</tbody>
</table>

Computer Systems and Information Technology electives (Choose 20 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS125E</td>
<td>Excel Workbooks</td>
<td>4</td>
</tr>
<tr>
<td>CIS125G</td>
<td>Introduction to Computer Game Development..</td>
<td>4</td>
</tr>
<tr>
<td>CIS133A</td>
<td>Android Application Design</td>
<td></td>
</tr>
<tr>
<td>CIS133I</td>
<td>iOS Application Design</td>
<td>4</td>
</tr>
<tr>
<td>CIS133J</td>
<td>Java Programming</td>
<td></td>
</tr>
<tr>
<td>CIS133JS</td>
<td>JavaScript Web Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS133VB</td>
<td>Visual Basic Programming</td>
<td></td>
</tr>
<tr>
<td>CIS133U</td>
<td>C++ Language</td>
<td>4</td>
</tr>
<tr>
<td>CIS135AE</td>
<td>Advanced Microsoft Excel</td>
<td>4</td>
</tr>
<tr>
<td>CIS178I</td>
<td>Internet and World-Wide Web</td>
<td>3</td>
</tr>
<tr>
<td>CIS178W</td>
<td>Fundamentals of Web Design</td>
<td></td>
</tr>
<tr>
<td>CIS186</td>
<td>Computer Forensics</td>
<td></td>
</tr>
<tr>
<td>CIS195</td>
<td>Web Site Development</td>
<td></td>
</tr>
<tr>
<td>CIS233J</td>
<td>Java Programming 2</td>
<td>4</td>
</tr>
<tr>
<td>CIS234J</td>
<td>Java Programming 3</td>
<td></td>
</tr>
<tr>
<td>CIS280B-L</td>
<td>Cooperative Work Experience</td>
<td>2–12</td>
</tr>
<tr>
<td>CIS289</td>
<td>Network Systems Management</td>
<td></td>
</tr>
<tr>
<td>CIS295</td>
<td>Web Applications Development</td>
<td></td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

Computer Programming Certificate of Completion

The Computer Programming certificate is for students who wish to become professional business-application programmers. As a graduate of this program, you will meet the minimum educational and experience requirements to qualify as an entry-level computer programmer. The Computer Programming certificate, in combination with the associate degree, has been designed to be completed in two years if you attend full time and have the required entry skills in reading, writing, and mathematics. Alternatively, you can choose to complete the Computer Programming pathway as a stand-alone certificate.

In addition to tuition, estimated costs for students who complete the Computer Programming certificate courses listed below are books, $1078; class fees, $125; universal fee, $672; equipment and supplies: $150, differential fees, $280. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn a certificate of completion by successfully completing the required 28 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS133J</td>
<td>Java Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS133VB</td>
<td>Visual Basic Programming</td>
<td>4</td>
</tr>
<tr>
<td>CIS133JS</td>
<td>JavaScript Web Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS233J</td>
<td>Java Programming 2</td>
<td>4</td>
</tr>
<tr>
<td>CIS234J</td>
<td>Java Programming 3</td>
<td>4</td>
</tr>
<tr>
<td>CIS133U</td>
<td>C++ Language</td>
<td>4</td>
</tr>
</tbody>
</table>

Systems Administrator and Network Security Certificate of Completion

The Systems Administrator and Network Security certificate prepares students with the knowledge and skills to design, install, implement, monitor, maintain, and manage enterprise and workgroup-level computer systems. Students can obtain an entry-level position as an IT Admin Support Specialist, or as a local, federal or private computer security consultant. The certificate, in combination with the associate degree, has been designed to be completed in two years if you attend full time and have the required entry skills in reading, writing, and mathematics. Alternatively, you can choose to complete the Computer Systems Administration and Network Security pathway as a stand-alone certificate.

In addition to tuition, estimated costs for students who complete the Computer Systems and Network Security certificate courses listed below are books, $1078; class fees, $126; universal fee, $720; equipment and supplies: $150, differential fees, $300. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify with these costs.

You may earn a certificate of completion by successfully completing the required 38 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS102A</td>
<td>Cyber Security and Safety</td>
<td>4</td>
</tr>
<tr>
<td>CIS133U</td>
<td>C++ Language</td>
<td>4</td>
</tr>
</tbody>
</table>

or

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS133J</td>
<td>Java Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS140B</td>
<td>Computer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS140U</td>
<td>Unix/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CIS179</td>
<td>Client-Server Networks</td>
<td>4</td>
</tr>
<tr>
<td>CIS186</td>
<td>Computer Forensics</td>
<td></td>
</tr>
<tr>
<td>CIS278</td>
<td>Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>CIS279</td>
<td>Server Management 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS288</td>
<td>Server Management 2</td>
<td>4</td>
</tr>
<tr>
<td>CIS289</td>
<td>Network Systems Management</td>
<td>4</td>
</tr>
</tbody>
</table>

Web Developer Certificate of Completion

The Web Developer certificate prepares students for employment in the area of web applications development. The web developer designs, implements, and maintains...
Computer Science

For discipline outcomes, see General Education Outcomes—Science or Computer Science on page 55.

All of Oregon's public universities offer Bachelor of Arts and/or Bachelor of Science degrees in Computer Science, Software Engineering, or another closely related field. Chemeketa offers a prescribed curriculum that closely follows the first two years in Computer Science at most Oregon public and private universities. In most cases, students are able to complete the first two years of a bachelor's degree in Computer Science at Chemeketa and are ready to begin junior level work after transferring to a university.

In general, most Computer Science transfer students should focus on completing the two-year Associate of Science/Oregon Transfer-Computer Science degree (ASOT-CS). However, some Computer Science programs require additional courses beyond those in the ASOT-CS and/or have additional requirements for admission. It is your responsibility to make sure that you understand the requirements of the school to which you plan to transfer.

As a prospective student, you should meet with Chemeketa's Computer Science instructor, Andrew Scholer (503.589.7649 or andrew.scholer@chemeketa.edu) or Chemeketa's Advising and First Year Programs staff to develop your educational plan. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in academic requirements.

Criminal Justice

For discipline outcomes, see General Education Outcomes beginning on page 54.

Oregon's state universities offering Bachelor of Arts and/or Bachelor of Science degrees in Criminal Justice are Western Oregon University, Southern Oregon University (degree in Criminology), and Portland State University.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa's Advising and First Year Programs staff or a Chemeketa Criminal Justice faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Refer to the Associate of Arts degree information in the Degrees, Diplomas, Certificates, and Transfer Information section of this catalog.

Criminal Justice, Corrections, and Law Enforcement

cj.chemeketa.edu

Graduates of Chemeketa’s Criminal Justice, Law Enforcement, and Corrections may enter career fields in juvenile or adult corrections; become law enforcement officers, adult or juvenile case workers, or parole or probation officers; gain entry-level positions within federal law enforcement or protection services; or elect to progress toward a career with Homeland Security, including positions with U.S. Customs and Border Protection, U.S. Immigration and Customs Enforcement, and the Transportation Security Administration; or the Federal Bureau of Investigation with opportunities to work in the areas of drug enforcement, computer information security services, and intelligence analysis.

The Criminal Justice associate of applied science degree curriculum focuses on the criminal justice system, its organizational components, and processes. Graduates may find jobs in 9-1-1 telecommunications, intake and release work in correctional institutions, and in private and public security work. You may also qualify for work in a related enforcement or investigative field such as a liquor control agent, an insurance adjuster, an agency investigations officer, an agency auditor, a hearings officer, or a licensing inspector for the state department of motor vehicles. For additional information about the Criminal Justice program, contact Megan Gonzalez at 503.584.7350 or megan.gonzalez@chemeketa.edu.

The Law Enforcement associate of applied science degree prepares graduates to provide police services for the public and communities in which they serve and the agencies they represent. Students participate in the academic and practical “hands-on” learning environments required for
entry-level duties and responsibilities of municipal, county, state, or federal law enforcement careers. The program includes concentrated academic and practical skills instruction for employment and certification leading to a city police officer, county sheriff's patrol deputy, or state police trooper designation.

Individual agencies may require employees to earn a bachelor's degree before entering or advancing in this field. Chemeketa's Law Enforcement program is a career-specific academic program from which graduates may move directly to employment. Alternatively, the Criminal Justice program is designed so that you may incorporate the necessary general education course work for transfer to a four-year school and where the criminal justice courses may meet social science discipline requirements. Before you enroll at Chemeketa, consult with Chemeketa's Advising and First Year Programs staff and an advisor at the institution to which you plan to transfer.

The Corrections associate of applied science degree program offers students the unique opportunity to develop and practice the skills of a correctional officer as they prepare to provide adult or juvenile correctional services upon graduation from the program. Students participate in classroom and practical learning environments to prepare for the duties and responsibilities of a municipal county, state, or federal corrections professional. The program's curriculum is derived from two main sources: The Department of Public Safety, Standards, and Training corrections content, and state certification requirements specific to correctional officers and Oregon Youth Authority (OYA) new employee training. Students may choose to earn the degree with an emphasis in either adult or juvenile corrections.

The Corrections program curriculum prepares graduates for employment and subsequent certification leading to entry-level corrections officer or OYA life coordinator positions. The program also provides pathways into other corrections-related fields such as parole and probation, casework and counseling, residential treatment services, intake processing, risk/release assessment, visitation monitoring, perimeter patrols, and security clearance assignments within correctional agencies, facilities, halfway houses, residential treatment facilities, and mentor programs.

Students interested in the Corrections program should contact Megan Gonzalez at 503.584.7350 or megan.gonzalez@chemeketa.edu. Students interested in the Law Enforcement program should contact Michael Withington at 503.589.7768 or michael.withington@chemeketa.edu.

In addition to the associate degrees, certificates of completion are offered in Basic Law Enforcement, Basic Corrections, and Juvenile Corrections. The certificates of completion are educational “stepping stones” and fit wholly into the Law Enforcement, Corrections, and Juvenile Justice Associate of Applied Science degrees (respectively), allowing you to work in your field while earning your degree. Additionally, individual courses such as Public Safety Telecommunications, Criminology, and Juvenile Law are available for those seeking opportunities for professional development.

Students in the Criminal Justice, Juvenile Corrections, Juvenile Justice, and Basic Corrections programs are required to complete a minimum of three credit hours of Cooperative Work Experience. With the approval of the program chair, you may enroll in CJ280B-L Cooperative Work Experience and earn college credit hours for work you do relating to your program. For more information, look under Cooperative Work Experience in the catalog index.

Students with law enforcement, criminal justice, or juvenile justice professional training, certification, or experience should contact Megan Gonzalez at 503.584.7350 or megan.gonzalez@chemeketa.edu to see if they are eligible for Credit for Professional Certification college credits.

Program Outcomes

Students completing the Criminal Justice degree should be able to:
- Identify the characteristics of professional integrity and ethical standards for Oregon criminal justice professionals.
- Describe and relate the constitutional rights and responsibilities of citizens, offenders, and victims as they apply to state, federal, and procedural laws.
- Describe the processes and technology used to gather, investigate, manage, and report information in the criminal justice field.
- Identify the legal responsibilities of criminal justice professionals as they relate to cultural diversity and establishing positive community relationships.

Students completing the Juvenile Corrections certificate should be able to:
- Identify the distinct philosophical differences between adjudicating adolescents in the juvenile system and processing adults through the criminal justice system.
- Describe the social, legal, and rehabilitative strategies for adolescents who are adjudicated to the juvenile justice system.

Students completing the Juvenile Justice degree should be able to:
- Identify the characteristics of professional integrity and ethical standards for Oregon criminal justice professionals.
- Identify the distinct philosophical differences between adjudicating adolescents in the juvenile system and processing adults through the criminal justice system.
- Describe the social, legal, and rehabilitative strategies for adolescents who are adjudicated to the juvenile justice system.
- Identify the waiver decision-making process for juveniles who will be tried in adult court.
- Identify the constitutional protections and applicable amendments for adhering to juvenile rights.

Students completing the Basic Corrections certificate should be able to:
- Identify the historical and philosophical evolution of criminal justice sanctions and punishment.
- Describe the constitutional and statutory foundation for offender treatment within correctional facilities.

Students completing the Corrections degree should be able to:
- Identify the characteristics of professional integrity and ethical standards for Oregon criminal justice professionals.
- Operate safely and effectively under both general and close supervision when engaged in corrections-related activities.
- Demonstrate and explain specific operations of corrections, including briefing, uniform and equipment maintenance, chain of command, and inmate/client/resident management.
- Describe the correct ethical, tactical, and legal decisions regarding proper responses to a variety of job-related situations.
- Demonstrate the ability to perform a variety of tasks, including both low- and high-risk maneuvers for pat downs, intake and assessments, transports and restraints, cell searches, and cell extractions.
- Utilize appropriate discretion when performing inmate and client contacts and tactical communication skills reflecting appropriate force continuum options.
- Interact formally and informally with a diversified population in a manner that reflects a positive, professional image for entry-level correctional officers and related positions.

Students completing the Basic Law Enforcement certificate should be able to:
- Identify the historical and philosophical evolution of law enforcement in the United States.
- Identify and describe the legal foundation for law enforcement officers working under “color of law”.

Students completing the Law Enforcement degree should be able to:
- Identify the characteristics of professional integrity and ethical standards for Oregon criminal justice professionals.
- Operate safely and effectively under both general and close supervision as an integral member of a training squad when engaged in hazardous scenario activities.
- Demonstrate and explain specific operations of patrol division that includes briefing, roll-call training, uniform and equipment maintenance, and chain of command.
- Demonstrate correct ethical, tactical, and legal decisions regarding proper responses to a variety of scenario based training situations.
- Drive and perform various traffic stop scenarios including both low and high-risk maneuvers and impairment recognition.
- Demonstrate acceptable competency and officer discretion when performing mock citizen/community contacts and tactical communication skills reflecting appropriate force continuum options.
- Interact formally and informally with a diversified population in a manner that reflects a positive, professional image for entry-level recruits in law enforcement.

If you have questions about the requirements, call 503.584.7350.

Criminal Justice Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $2,182; class fees, $65; and universal fee, $1,728. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

An associate of applied science degree is awarded upon successful completion of the required 96 credit hours with a grade of “C” or better in all courses. These include the 60 credit hours listed under general education requirements, 36 credit hours of Criminal Justice core requirements.

General Education requirements (60 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS101</td>
<td>Computing Concepts (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BA131</td>
<td>Business Computing</td>
</tr>
<tr>
<td>or</td>
<td>CA100</td>
<td>Beginning Computing</td>
</tr>
<tr>
<td>or</td>
<td>COMM218</td>
<td>Interpersonal Communication</td>
</tr>
<tr>
<td>or</td>
<td>Communications elective</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>MTH060</td>
<td>Introductory Algebra+ (or higher)</td>
</tr>
<tr>
<td>or</td>
<td>PE185ES</td>
<td>Tactical Athlete (plus 2 additional PE courses)</td>
</tr>
<tr>
<td>or</td>
<td>CJ104A</td>
<td>CJ Personal Defense—Beginning</td>
</tr>
<tr>
<td>and</td>
<td>CJ104B</td>
<td>CJ Personal Defense—Intermediate</td>
</tr>
<tr>
<td>or</td>
<td>CJ104C</td>
<td>CJ Personal Defense—Advanced</td>
</tr>
<tr>
<td>or</td>
<td>Physical Education elective (3 different activities)</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WR121</td>
<td>Academic Composition+</td>
</tr>
<tr>
<td>or</td>
<td>CJ121</td>
<td>Police Report Writing</td>
</tr>
<tr>
<td>or</td>
<td>WR227</td>
<td>Technical Writing</td>
</tr>
<tr>
<td>or</td>
<td>General Education electives</td>
<td>15</td>
</tr>
<tr>
<td>or</td>
<td>Arts and Letters electives*</td>
<td>12</td>
</tr>
<tr>
<td>or</td>
<td>Psychology or Sociology electives+**</td>
<td>12</td>
</tr>
</tbody>
</table>

Criminal Justice core requirements (36 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ100</td>
<td>Survey of the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CJ101</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CJ125</td>
<td>Public Safety Communications and Documentation</td>
<td>3</td>
</tr>
<tr>
<td>CJ130</td>
<td>Introduction to Corrections Process</td>
<td>3</td>
</tr>
<tr>
<td>CJ206</td>
<td>Crime and Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>CJ210</td>
<td>Criminal Investigations 1: Crimes vs. Persons</td>
<td>3</td>
</tr>
<tr>
<td>CJ226</td>
<td>Introduction to Constitutional Law</td>
<td>3</td>
</tr>
<tr>
<td>CJ280C</td>
<td>Cooperative Work Experience</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Crime and Delinquency</td>
<td>12</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.
+Arts and Letters electives: Due to current bilingual hiring preferences, students are urged to take SPN111, SPN112, and SPN113.
**Recommended: PSY201 and PSY202 for Law Enforcement and Adult Corrections.
***Choose any CJ course not required.

Juvenile Corrections Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $770; and universal fee, $936. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

Juvenile corrections workers provide supervision, facilitate in the treatment process and crisis intervention, provide social and life skills training, maintain records and documentation,
engage in support services, and monitor and ensure a secure environment.

This one-year certificate is specifically designed for individuals who want to work directly with juvenile offenders through different agencies in various settings. These agencies may include Oregon Youth Authority (OYA), as well as other public, private, and non-profit organizations. The Juvenile Corrections certificate is designed to be integrated into the Criminal Justice Associate of Applied Science degree or Juvenile Justice Associate of Applied Science degree.

You may earn a certificate of completion degree by successfully completing these 52 credit hours with a grade of “C” or better in all courses.

### General Education requirements (31 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS101</td>
<td>Computing Concepts (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>or BA131</td>
<td>Business Computing</td>
<td>4</td>
</tr>
<tr>
<td>or CA100</td>
<td>Beginning Computing</td>
<td>3</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY201</td>
<td>Psychology: Mind and Body+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY202</td>
<td>Psychology: Mind and Society</td>
<td>4</td>
</tr>
<tr>
<td>PSY237</td>
<td>Life Span Development</td>
<td>4</td>
</tr>
<tr>
<td>PSY239</td>
<td>Abnormal Psychology</td>
<td>4</td>
</tr>
<tr>
<td>SOC206</td>
<td>Social Problems</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+</td>
<td>4</td>
</tr>
</tbody>
</table>

### Juvenile Corrections core requirements (21 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ101</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CJ203</td>
<td>Crisis Intervention Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CJ206</td>
<td>Crime and Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>or SOC221</td>
<td>Juvenile Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>CJ230</td>
<td>Juvenile Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CJ132</td>
<td>Parole and Probation</td>
<td>3</td>
</tr>
<tr>
<td>or CJ232</td>
<td>Corrections Casework</td>
<td>3</td>
</tr>
<tr>
<td>CJ235</td>
<td>Youth, Drugs, and Corrections</td>
<td>3</td>
</tr>
<tr>
<td>or HS101</td>
<td>Addiction Pharmacology and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>CJ280C</td>
<td>Cooperative Work Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

+Meet related instruction requirement, see page 48. For subject areas, see page 64.

### Juvenile Justice Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $1,320; class fees, $20; universal fee, $1,710. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Juvenile Justice associate of applied science degree prepares students to work in county and state custody facilities, probationary and parole services, alternative education and treatment services, residential and group home care facilities, and juvenile court diversion services. Overall, the program provides students with a strong theoretical, historical, professional, and technical base in the juvenile justice system. The program includes knowledge and skills in criminology, crime and delinquency, juvenile corrections, youth addiction, and corrections casework, in addition to a solid foundation in psychological principles.

The Juvenile Justice associate of applied science degree is a direct pathway from the statewide Juvenile Corrections certificate of completion in that all the courses can be applied to the degree.

You may earn an associate of applied science degree by successfully completing the required 94 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>General Education Requirements (49 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS101</td>
<td>Computing Concepts (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>or BA131</td>
<td>Business Computing</td>
<td>4</td>
</tr>
<tr>
<td>or CA100</td>
<td>Beginning Computing</td>
<td>3</td>
</tr>
<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PE185ES</td>
<td>Tactical Athlete (plus 2 additional PE courses)</td>
<td>3</td>
</tr>
<tr>
<td>CJ104A</td>
<td>CJ Personal Defense-Beginning</td>
<td>1</td>
</tr>
<tr>
<td>CJ104B</td>
<td>CJ Personal Defense-Intermediate</td>
<td>1</td>
</tr>
<tr>
<td>CJ104C</td>
<td>CJ Personal Defense-Advanced</td>
<td>1</td>
</tr>
<tr>
<td>or HE250</td>
<td>Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>or HPE295</td>
<td>Health and Fitness for Life</td>
<td>3</td>
</tr>
<tr>
<td>PSY201</td>
<td>Intro to Psychology: Mind and Body+</td>
<td>4</td>
</tr>
<tr>
<td>PSY202</td>
<td>Intro to Psychology: Mind and Society</td>
<td>4</td>
</tr>
<tr>
<td>PSY237</td>
<td>Life Span Development</td>
<td>4</td>
</tr>
<tr>
<td>PSY239</td>
<td>Abnormal Psychology</td>
<td>4</td>
</tr>
<tr>
<td>SOC206</td>
<td>Social Problems</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+</td>
<td>4</td>
</tr>
<tr>
<td>or WR227</td>
<td>Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td>or CJ212</td>
<td>Police Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>or Arts and Letters elective.....................</td>
<td>8</td>
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</tbody>
</table>
Juvenile Justice Core Requirements (45 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ100</td>
<td>Survey of the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CJ101</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CJ125</td>
<td>Public Safety Communications and Documentation</td>
<td>3</td>
</tr>
<tr>
<td>CJ132</td>
<td>Introduction to Parole and Probation</td>
<td>3</td>
</tr>
<tr>
<td>CJ203</td>
<td>Crisis Intervention</td>
<td>3</td>
</tr>
<tr>
<td>CJ206</td>
<td>Crime and Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>CJ221</td>
<td>Juvenile Delinquency</td>
<td>4</td>
</tr>
<tr>
<td>CJ230</td>
<td>Introduction to Juvenile Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CJ235</td>
<td>Youth, Drugs, and Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CJ240</td>
<td>Intake, Assessment, and Interviewing</td>
<td>3</td>
</tr>
<tr>
<td>CJ241</td>
<td>Group Skills for Correctional Clients</td>
<td>3</td>
</tr>
<tr>
<td>CJ280C</td>
<td>Cooperative Work Experience</td>
<td>3</td>
</tr>
<tr>
<td>CJ281</td>
<td>Corrections Officer Related Experience 1</td>
<td>3</td>
</tr>
<tr>
<td>CJ282</td>
<td>Corrections Officer Related Experience 2</td>
<td>3</td>
</tr>
<tr>
<td>CJ283</td>
<td>Corrections Officer Related Experience 3</td>
<td>3</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY201</td>
<td>Intro to Psychology: Mind and Body (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

Basic Corrections Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $1,024; class fees, $20; and universal fee, $666. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Basic Corrections certificate prepares students for entry-level positions in correctional facilities as security aids, correctional officers and corrections work supervisors.

You may earn a certificate of completion by successfully completing the required 37 credit hours with a grade of “C” or better in all courses.

General Education requirements (12 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH060</td>
<td>Introductory Algebra (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY201</td>
<td>Intro to Psychology: Mind and Body (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

Basic Corrections core requirements (25 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ100</td>
<td>Survey of the Juvenile Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CJ101</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CJ125</td>
<td>Public Safety Communications and Documentation</td>
<td>3</td>
</tr>
<tr>
<td>CJ132</td>
<td>Introduction to Parole and Probation</td>
<td>3</td>
</tr>
<tr>
<td>CJ134</td>
<td>Search/Contraband/Restraints</td>
<td>2</td>
</tr>
<tr>
<td>CJ147</td>
<td>Criminal Personality and Errors in Thinking</td>
<td>2</td>
</tr>
<tr>
<td>CJ203</td>
<td>Crisis Intervention</td>
<td>3</td>
</tr>
<tr>
<td>CJ232</td>
<td>Introduction to Corrections Casework</td>
<td>3</td>
</tr>
<tr>
<td>CJ253</td>
<td>Introduction to Penology</td>
<td>3</td>
</tr>
<tr>
<td>Corrections elective*</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Corrections Associate of Applied Science Degree Option

In addition to tuition, estimated costs for students who complete the courses listed below are books, $2,062; class fees, $203; equipment and supplies, $1,000; and universal fee, $1,710. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 95 credit hours with a grade of “C” or better in all courses.

General Education requirements (21 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ100</td>
<td>Survey of the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CJ101</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CJ125</td>
<td>Public Safety Communications and Documentation</td>
<td>3</td>
</tr>
<tr>
<td>CJ132</td>
<td>Introduction to Parole and Probation</td>
<td>3</td>
</tr>
<tr>
<td>CJ134</td>
<td>Search/Contraband/Restraints</td>
<td>2</td>
</tr>
<tr>
<td>CJ147</td>
<td>Criminal Personality and Errors in Thinking</td>
<td>2</td>
</tr>
<tr>
<td>CJ203</td>
<td>Crisis Intervention</td>
<td>3</td>
</tr>
<tr>
<td>CJ232</td>
<td>Introduction to Corrections Casework</td>
<td>3</td>
</tr>
<tr>
<td>CJ235</td>
<td>Ethical Dilemmas/Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>CJ236</td>
<td>Group Skills for Correctional Clients</td>
<td>3</td>
</tr>
<tr>
<td>CJ280C</td>
<td>Cooperative Work Experience</td>
<td>3</td>
</tr>
<tr>
<td>CJ281</td>
<td>Corrections Officer Related Experience 1</td>
<td>3</td>
</tr>
<tr>
<td>CJ282</td>
<td>Corrections Officer Related Experience 2</td>
<td>3</td>
</tr>
<tr>
<td>CJ283</td>
<td>Corrections Officer Related Experience 3</td>
<td>3</td>
</tr>
<tr>
<td>Corrections elective**</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

Corrections core requirements (74 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ100</td>
<td>Survey of the Juvenile Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CJ101</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CJ125</td>
<td>Public Safety Communications and Documentation</td>
<td>3</td>
</tr>
<tr>
<td>CJ132</td>
<td>Introduction to Parole and Probation</td>
<td>3</td>
</tr>
<tr>
<td>CJ134</td>
<td>Search/Contraband/Restraints</td>
<td>2</td>
</tr>
<tr>
<td>CJ147</td>
<td>Criminal Personality and Errors in Thinking</td>
<td>2</td>
</tr>
<tr>
<td>CJ203</td>
<td>Crisis Intervention</td>
<td>3</td>
</tr>
<tr>
<td>CJ232</td>
<td>Introduction to Corrections Casework</td>
<td>3</td>
</tr>
<tr>
<td>CJ253</td>
<td>Introduction to Penology</td>
<td>3</td>
</tr>
<tr>
<td>Corrections elective*</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

* Meets related instruction requirement, see page 48. For subject areas, see page 64.

+ Choose any CJ courses not already required in the program.

* Choose any CJ courses not already required in the program.

** Choose any PE185 courses, and/or CJ104A, B, or C.
Basic Law Enforcement Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $1,332; class fees, $40; universal fee, $684. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Basic Law Enforcement Certificate of Completion prepares students for entry-level occupations such as policy reserve officer, campus security and crime lab assistant. This program includes instruction and hands-on training in the basic knowledge and skills required successful employment.

You may earn a certificate of completion by successfully completing the required 38 credit hours with a grade of “C” or better in all courses.

General Education requirements (17 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM115</td>
<td>Introduction to Intercultural Communication</td>
<td>4</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PE185PA</td>
<td>Personal Defense, Beginning</td>
<td>1</td>
</tr>
<tr>
<td>PE185ES</td>
<td>Emergency Service Tactical Athlete</td>
<td>1</td>
</tr>
<tr>
<td>CJ104A</td>
<td>CJ Personal Defense-Beginning</td>
<td>1</td>
</tr>
<tr>
<td>CJ104B</td>
<td>CJ Personal Defense-Intermediate</td>
<td>1</td>
</tr>
<tr>
<td>PSY201</td>
<td>Intro to Psychology: Mind and Body+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition</td>
<td>4</td>
</tr>
</tbody>
</table>

Basic Law Enforcement core requirements (21 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ100</td>
<td>Survey of the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CJ101</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CJ110</td>
<td>Field Operations and Patrol Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CJ203</td>
<td>Crisis Intervention Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CJ210</td>
<td>Criminal Investigations 1: Crimes vs. Persons</td>
<td>3</td>
</tr>
<tr>
<td>CJ226</td>
<td>Introduction to Constitutional Law</td>
<td>3</td>
</tr>
</tbody>
</table>

Law Enforcement Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $2,062; class fees, $203; universal fee, $1,764; and equipment and supplies, $1,200. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 98 credit hours with a grade of “C” or better in all courses:

General Education requirements (21 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ100</td>
<td>Survey of the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>BA131</td>
<td>Business Computing</td>
<td>4</td>
</tr>
<tr>
<td>CA100</td>
<td>Beginning Computing</td>
<td>3</td>
</tr>
<tr>
<td>COMM115</td>
<td>Intercultural Communication (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY201</td>
<td>Intro to Psychology: Mind and Body+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+</td>
<td>4</td>
</tr>
<tr>
<td>HPE295</td>
<td>Health and Fitness for Life</td>
<td>3</td>
</tr>
</tbody>
</table>

Law Enforcement core requirements (77 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ100</td>
<td>Survey of the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CJ110</td>
<td>Law Enforcement</td>
<td>3</td>
</tr>
<tr>
<td>CJ101</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CJ112</td>
<td>Field Operations and Patrol Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CJ125</td>
<td>Public Safety Communications and Documentation</td>
<td>3</td>
</tr>
<tr>
<td>CJ134</td>
<td>Search/Contraband/Restraints</td>
<td>2</td>
</tr>
<tr>
<td>CJ146</td>
<td>Officer Survival Mindset</td>
<td>3</td>
</tr>
<tr>
<td>CJ153</td>
<td>Ethical Dilemmas/Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>CJ203</td>
<td>Crisis Intervention Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CJ210</td>
<td>Criminal Investigations 1: Crimes vs. Persons</td>
<td>3</td>
</tr>
<tr>
<td>CJ211</td>
<td>Property Crimes: Behavior and Evidence</td>
<td>3</td>
</tr>
<tr>
<td>CJ212</td>
<td>Police Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>CJ217</td>
<td>Interviewing and Interrogation in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ224</td>
<td>Missing and Abducted Children</td>
<td>2</td>
</tr>
<tr>
<td>CJ226</td>
<td>Introduction to Constitutional Law</td>
<td>3</td>
</tr>
<tr>
<td>CJ255</td>
<td>Oral Boards and Multi-Assessment</td>
<td>2</td>
</tr>
<tr>
<td>CJ261</td>
<td>Law Enforcement Related Experience 1</td>
<td>3</td>
</tr>
<tr>
<td>CJ262</td>
<td>Law Enforcement Related Experience 2</td>
<td>3</td>
</tr>
<tr>
<td>CJ263</td>
<td>Law Enforcement Related Experience 3</td>
<td>3</td>
</tr>
<tr>
<td>CJ264</td>
<td>Law Enforcement Related Experience 4</td>
<td>3</td>
</tr>
<tr>
<td>CJ265</td>
<td>Law Enforcement Related Experience 5</td>
<td>3</td>
</tr>
<tr>
<td>CJ266</td>
<td>Law Enforcement Related Experience 6</td>
<td>3</td>
</tr>
<tr>
<td>CJ270</td>
<td>Crime Victim Advocacy</td>
<td>2</td>
</tr>
<tr>
<td>CJ272</td>
<td>Recognizing Child Molesters</td>
<td>3</td>
</tr>
<tr>
<td>CJ272</td>
<td>Law Enforcement electives</td>
<td>9</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

*Dental Assisting Program

go.chemeketa.edu/dental

The Dental Assisting program offers technical training to people who want to work in dental offices and clinics. The program is accredited by the American Dental Association Commission on Dental Accreditation, 211 East Chicago Avenue, Chicago, Illinois 60611-2678. The telephone number is 312.440.2500. The Web site is www.ada.org.

2019–2020 Chemeketa Community College Catalog
The program includes instruction in assisting dentists in private offices or dental health clinics plus clinical and field trip experiences. Typical duties of dental assistants include preparing patients for treatment, mixing dental materials, taking impressions, sterilization and infection control, exposing and processing radiographic images, assisting with clinical procedures, expanded functions, and inventory control. Laboratory duties include pouring study models of teeth and fabrication of custom trays, temporary crowns, and small appliances. As office manager, a dental assistant acts as a receptionist, schedules appointments, keeps accounts and records, prepares statements and insurance billings, and is responsible for the general appearance of an office.

Program Outcomes
Students completing the Dental Assisting certificate should be able to:

- Perform basic and expanded chairside functions to facilitate the completion of restorative and advanced operative procedures.
- Manipulate dental materials to support chairside and laboratory procedures.
- Perform basic office procedures necessary to assist in managing a dental practice.
- Demonstrate proficiency in exposing, processing, and mounting dental radiographic images.
- Practice professional behaviors as applied to the workplace environment.
- Manage asepsis, infection control, and hazard control protocol to promote a safe work environment.

If you have questions about the requirements, contact the Health Sciences Department at 503.399.5058 or email healthsciences@chemeketa.edu.

Getting Started
This program has special admission requirements and enrollment limits. The first step to entering this program is to take part in an assessment process, which includes taking the college’s free placement test and meeting with Chemeketa’s Advising and First Year Programs staff. You may need to complete program entry requirements. Then your advisor will help you develop an individualized program of study, which may include one or more of the following:

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI060  Basic Science for Dental Assistants</td>
<td>3</td>
</tr>
<tr>
<td>CIS101  Computing Concepts</td>
<td>3</td>
</tr>
<tr>
<td>COMM111 Fundamentals of Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>FYE105  Creating College Success</td>
<td>2</td>
</tr>
<tr>
<td>RD115   Academic Thinking and Reading (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>SSP112  Effective Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

If you have questions about the requirements, contact the Health Sciences Department at 503.399.5058 or email healthsciences@chemeketa.edu.

For admission to the program, an application is required. This is a separate step from the testing and assessment steps. Applications are available on the Chemeketa website (www.chemeketa.edu).

To enroll, you must have a high school diploma or GED certificate. Once accepted into the program, students are required to submit a copy of their current CPR card and immunizations prior to fall registration. You must also pass a criminal background check and a drug test. Successful completion of the Dental Assisting program requires that you earn a grade of “C” or better in all courses. As a graduate, you are eligible to take the Dental Assisting National Board examinations, including infection control, general chairside, and radiation health and safety.

Dental Assisting Certificate of Completion
In addition to tuition, estimated costs for students who complete the courses listed below are books, $800; lab fees, $1500; universal fee, $1370; uniform and shoes, $400; exam fees, $725; immunizations, $150; criminal background check and drug testing, $90; CPR certification, $80; professional membership fee, $55 Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs. Students are responsible for costs related to practicum travel.

You may earn a certificate of completion by successfully completing the required 57 credit hours with a grade of “C” or better in all courses:

<table>
<thead>
<tr>
<th>Course Term 1</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>DEN150</td>
<td>Dental Sciences</td>
<td>3</td>
</tr>
<tr>
<td>DEN151</td>
<td>Introductory Concepts in Dental Assisting</td>
<td>3</td>
</tr>
<tr>
<td>DEN153</td>
<td>Dental Materials 1</td>
<td>3</td>
</tr>
<tr>
<td>DEN156</td>
<td>Dental Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>DEN165</td>
<td>Dental Office Emergency Management</td>
<td>2</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra+ (or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Term 2</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN160</td>
<td>Dental Specialties</td>
<td>3</td>
</tr>
<tr>
<td>DEN161</td>
<td>Dental Assisting Practicum 1</td>
<td>3</td>
</tr>
<tr>
<td>DEN162</td>
<td>Intermediate Clinical Skills</td>
<td>2</td>
</tr>
<tr>
<td>DEN163</td>
<td>Dental Materials 2</td>
<td>3</td>
</tr>
<tr>
<td>DEN164</td>
<td>Dental Radiology 1</td>
<td>3</td>
</tr>
<tr>
<td>DEN170</td>
<td>Dental Office Management</td>
<td>2</td>
</tr>
<tr>
<td>PSY101</td>
<td>Psychology of Human Relations+ (or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Term 3</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEN171</td>
<td>Dental Assisting Practicum 2</td>
<td>9</td>
</tr>
<tr>
<td>DEN172</td>
<td>Expanded Functions</td>
<td>3</td>
</tr>
<tr>
<td>DEN174</td>
<td>Dental Radiology 2</td>
<td>2</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+ (or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

Dental Hygiene (Pre-OIT Admission Requirements)
For discipline outcomes, see General Education Outcomes—Science or Computer Science on page 55.

Oregon Institute of Technology (OIT), in partnership with Chemeketa, offers a Bachelor of Science degree in Dental Hygiene on the Chemeketa Salem campus.

The Dental Hygiene program requires one year of prerequisite coursework (as listed below) prior to entry into the OIT Dental Hygiene program. Admission to the program is competitive and only a limited number of applicants are accepted each year.
It is important to check with OIT for admission requirements and deadlines, and to obtain admission materials early, as requirements change. The application and other program information is available at www.oit.edu/academics/degrees/dental-hygiene.

### Diesel Technology Program

The diesel technician repairs and maintains diesel powered trucks and agricultural equipment and their support systems. This program is designed to prepare students for entry-level positions in diesel service technology. Training is varied to give students a broad understanding and background in the different phases of the diesel service industry. Students may have additional cost for tools and books.

It is an industry-specific two-year associate degree program with required internship hours. It is designed to prepare individuals to become qualified diesel service technicians. Students learn how to work on many types of diesel equipment including agricultural, construction, forestry, semi-truck and earth moving equipment. The Diesel Technology Program combines technical and academic education with real world experience through internships that are within the program. Students learn about engine fundamentals, machine hydraulics, fuel systems, electrical systems, transmissions, torque converters, undercarriage, final drives and more. During the internships, students have the opportunity to experience a future career firsthand through on-the-job training focused area of their choice. Upon completion of the program, students will earn a Diesel Technology Associate of Applied Science Degree.

### Program Outcomes

Students completing the Diesel Technology degree should be able to:

- Demonstrate and use industry safety standards.
- Demonstrate math skills using formulas to find force, pressure, area, and volume.
- Use diagnostic simulators to diagnose and troubleshoot system components.
- Demonstrate troubleshooting, maintenance and repair procedures for fuel systems and transmissions.
- Demonstrate troubleshooting, maintenance and repair procedures for brake systems and components.
- Demonstrate troubleshooting, maintenance and repair procedures for powertrain systems and hydraulics.
- Demonstrate troubleshooting, maintenance and repair procedures for electrical systems.

### Diesel Technology Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $750; class fees, $1,000; universal fee, $1,638. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 91 credit hours with a grade of “C” or better in all courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSL101</td>
<td>Diesel Technology 1</td>
<td>12</td>
</tr>
<tr>
<td>MTH052</td>
<td>Introduction to Algebra and Geometry+ (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>DSL102</td>
<td>Diesel Technology 2</td>
<td>12</td>
</tr>
<tr>
<td>WR088</td>
<td>Introduction to Technical Writing 1+ (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>DSL103</td>
<td>Diesel Technology 3</td>
<td>12</td>
</tr>
<tr>
<td>PSY104</td>
<td>Workplace Psychology (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>DSL201</td>
<td>Diesel Technology 4+</td>
<td>12</td>
</tr>
<tr>
<td>CIS101</td>
<td>Computer Concepts</td>
<td>3</td>
</tr>
<tr>
<td>DSL202</td>
<td>Diesel Technology 5</td>
<td>12</td>
</tr>
<tr>
<td>DSL203</td>
<td>Diesel Technology 6</td>
<td>12</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

*Diesel Technology elective: Any course of at least three credits and with a course number of 100 or above chosen from one of the following academic areas: ART, ASL, ATH, BI, CH, CLA, COMM, CIS, CS, ENL, ENG, FA, FR, GE, GEQ, GEO, GS, HDF, HE, HOR, HPE, HST, HUM, JNL, JPN, MTH, MUS, NFM, OC, PE, PH, PHI, PS, PSY, RD, REL, RUS, SOC, SPN, SSC, SSP, WR, WS.
Drafting Technology—CAD Program

go.chemeketa.edu/drafting

Drafting Technology offers training for entry into careers in Computer-Assisted Drafting (CAD). CAD focuses primarily on drafting skills required for the fields of architecture and construction, with a minor focus on mechanical drafting. Students gain experience using a variety of the latest 2D and 3D software programs as they draw buildings, bridges, roadways and mechanical parts and assemblies. Many design projects are carried across several courses to help students put together basic concepts into integrated, complex design solutions required in real-world projects.

Students may choose to enroll in individual courses, or work toward a certificate of completion or an associate of applied science degree.

You may be interested in our Cooperative Work Experience program that allows you to earn college credit for work you do relating to your program. In your third term or later, with the approval of the Program Chair you may enroll in DRF280B-L Cooperative Work Experience and earn college credit hours. Opportunities are subject to availability. For more information, look under Cooperative Work Experience in the catalog index.

After graduation, with specific course substitutions, some credits will transfer to a four-year engineering or engineering technology program. See a Drafting advisor for more information.

Program Outcomes

Students completing the Architectural Drafting certificate should be able to:

• Produce accurate 2D and 3D drawings using CAD software.
• Produce sets of architectural drawings suitable for planning division approval.
• Produce sets of structural drawings to industry standards.

Students completing the CAD certificate should be able to:

• Produce accurate 2D and 3D drawings using CAD software.

Students completing the Computer-Assisted Drafting (CAD) degree should be able to:

• Produce accurate 2D and 3D drawings using CAD software.
• Use effective communication skills as a team member to research data and generate drawings.
• Produce sets of architectural drawings suitable for planning division approval.
• Produce sets of structural drawings to industry standards.
• Produce sets of civil drawings including streets, lots, and utilities for a subdivision suitable for planning division approval.
• Draft sets of mechanical drawings including detail and assembly drawings of related parts.

Architectural Drafting Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $400; class fees, $441; universal fee, $846; and equipment and supplies, $225. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Architectural Drafting certificate prepares students to work as a drafter or entry-level designer in the areas of home design, architecture, engineering, and construction. All credits earned in this program may be applied toward the Computer-Assisted Drafting (CAD) AAS degree. Note: Students must have completed DRF130 and DRF131 prior to beginning this certificate.

You may earn a certificate of completion by successfully completing the required 47 credit hours with a grade of “C” or better in all courses:

<table>
<thead>
<tr>
<th>Course Title Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVL143 Introduction to Civil Survey ........................................ 3</td>
</tr>
<tr>
<td>DRF112 Sketching .......................................................... 1</td>
</tr>
<tr>
<td>DRF150 Architectural Drafting 1 ........................................... 3</td>
</tr>
<tr>
<td>DRF271 Commercial Drafting with Revit 1 ............................. 4</td>
</tr>
<tr>
<td>MTH081 Technical Mathematics 1+ ............................................. 4</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>MTH111 College Algebra+ (or higher) ........................................ 5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Title Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 2</td>
</tr>
<tr>
<td>DRF110 Applied Engineering Computations ................................ 2</td>
</tr>
<tr>
<td>DRF240 Architectural Drafting 2 .......................................... 3</td>
</tr>
<tr>
<td>DRF272 Commercial Drafting with Revit 2 ................................ 4</td>
</tr>
<tr>
<td>PSY104 Workplace Psychology+ ............................................. 4</td>
</tr>
<tr>
<td>WR088 Introduction to Technical Writing 1+ ............................ 3</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>WR121 Academic Composition+ (or higher) .................................. 4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Title Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 3</td>
</tr>
<tr>
<td>DRF132 CAD 3 ........................................................... 3</td>
</tr>
<tr>
<td>DRF160 Spreadsheet and Database Applications .................... 3</td>
</tr>
<tr>
<td>DRF241 Structural Drafting ............................................... 3</td>
</tr>
<tr>
<td>DRF243 Architectural Design ............................................. 3</td>
</tr>
<tr>
<td>DRF273 Commercial Drafting with Revit 3 ............................ 4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

Computer-Assisted Drafting (CAD) Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $350; class fees, $329; universal fee, $720; and equipment and supplies, $225. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The CAD certificate is for students seeking a basic working knowledge of CAD systems. Full-time students can complete the certificate in three terms, although full-time enrollment is not required. Many required courses are available online to provide maximum flexibility to non-traditional and working students. This certificate provides initial training for entry-level CAD operator positions.

All credits apply toward the associate of applied science degree in CAD Drafting Technology.
You may earn a certificate of completion by successfully completing the required 40 credit hours with a grade of "C" or better in all courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Term 1</td>
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<td></td>
</tr>
<tr>
<td>DRF112</td>
<td>Sketching</td>
<td>1</td>
</tr>
<tr>
<td>DRF130</td>
<td>CAD 1</td>
<td>3</td>
</tr>
<tr>
<td>DRF140</td>
<td>3-D Modeling with Inventor</td>
<td>3</td>
</tr>
<tr>
<td>MTH070</td>
<td>Elementary Algebra (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY104</td>
<td>Workplace Psychology</td>
<td>4</td>
</tr>
<tr>
<td>Term 2</td>
<td>Applied Engineering Computations</td>
<td>2</td>
</tr>
<tr>
<td>DRF110</td>
<td>CAD 2</td>
<td>3</td>
</tr>
<tr>
<td>DRF132</td>
<td>Architectural Drafting 1</td>
<td>3</td>
</tr>
<tr>
<td>DRF220</td>
<td>Geographic Information Systems 1</td>
<td>2</td>
</tr>
<tr>
<td>WR088</td>
<td>Introduction to Technical Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WR121 Academic Composition</td>
<td>4</td>
</tr>
<tr>
<td>Term 3</td>
<td>Special Projects in Drafting and Design</td>
<td>3</td>
</tr>
<tr>
<td>DRF095C</td>
<td>CAD 3</td>
<td>3</td>
</tr>
<tr>
<td>DRF240</td>
<td>Architectural Drafting 2</td>
<td>3</td>
</tr>
<tr>
<td>Drafting elective*</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

*Drafting elective: Select a course with a CVL, DRF, EGR, or CAM prefix.

**Computer-Assisted Drafting (CAD) Associate of Applied Science Degree**

In addition to tuition, estimated costs for students who complete the courses listed below are books, $1,200; class fees, $861; universal fee, $1,764; and equipment and supplies, $450. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

Students graduating from the CAD program may become technicians in civil, mechanical, structural, or architectural drafting. Additional career opportunities include Geographic Information Systems (GIS), mapping, and technical illustration. Training encompasses computer-aided drafting in all of the fields listed; application of software and mathematical concepts to solve real-world problems; and broader skills in communication, teamwork, and human relations.

You may earn an associate of applied science degree by successfully completing the required 98 credit hours with a grade of "C" or better in all courses:

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Term 1</td>
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<tr>
<td>DRF112</td>
<td>Sketching</td>
<td>1</td>
</tr>
<tr>
<td>DRF130</td>
<td>CAD 1</td>
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<td>DRF140</td>
<td>3-D Modeling with Inventor</td>
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<tr>
<td>DRF230</td>
<td>Introduction to MicroStation PC</td>
<td>3</td>
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<tr>
<td>MTH081</td>
<td>Technical Mathematics 1+</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>MTH111 College Algebra+ (or higher)</td>
<td>5</td>
</tr>
<tr>
<td>Term 2</td>
<td>Applied Engineering Computations</td>
<td>2</td>
</tr>
<tr>
<td>DRF110</td>
<td>CAD 2</td>
<td>3</td>
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<tr>
<td>DRF220</td>
<td>Geographic Information Systems 1</td>
<td>2</td>
</tr>
<tr>
<td>DRF231</td>
<td>Advanced MicroStation</td>
<td>3</td>
</tr>
<tr>
<td>MTH082</td>
<td>Technical Mathematics 2</td>
<td>4</td>
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<tr>
<td>or</td>
<td>MTH112 Trigonometry (or higher)</td>
<td>5</td>
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<tr>
<td>WR088</td>
<td>Introduction to Technical Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WR121 Academic Composition+ (or higher)</td>
<td>4</td>
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<tr>
<td>Term 3</td>
<td>CAD 3</td>
<td>3</td>
</tr>
<tr>
<td>DRF132</td>
<td>Architectural Drafting 1</td>
<td>3</td>
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<tr>
<td>DRF150</td>
<td>Spreadsheet and Database Applications</td>
<td>3</td>
</tr>
<tr>
<td>DRF165</td>
<td>CAD System Administration</td>
<td>3</td>
</tr>
<tr>
<td>DRF241</td>
<td>Structural Drafting</td>
<td>3</td>
</tr>
<tr>
<td>Term 4</td>
<td>Introduction to Civil Survey</td>
<td>3</td>
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<tr>
<td>CVL143</td>
<td>Mapping and Plating</td>
<td>3</td>
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<tr>
<td>DRF210</td>
<td>Parametric Design with SolidWorks</td>
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<tr>
<td>or</td>
<td>EGR248 Graphics and 3-D Modeling</td>
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<tr>
<td>DRF271</td>
<td>Commercial Drafting with Revit 1</td>
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<tr>
<td>PH121</td>
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<td>4</td>
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<td>Term 5</td>
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<tr>
<td>CVL144</td>
<td>Applied Statics and Strengths</td>
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<tr>
<td>DRF240</td>
<td>Architectural Drafting 2</td>
<td>3</td>
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<tr>
<td>DRF245</td>
<td>Civil Drafting and Design</td>
<td>4</td>
</tr>
<tr>
<td>DRF272</td>
<td>Commercial Drafting with Revit 2</td>
<td>4</td>
</tr>
<tr>
<td>Term 6</td>
<td>Parametric Design with Solid Works 2</td>
<td>3</td>
</tr>
<tr>
<td>DRF243</td>
<td>Architectural Design</td>
<td>3</td>
</tr>
<tr>
<td>DRF246</td>
<td>Project Development</td>
<td>3</td>
</tr>
<tr>
<td>DRF273</td>
<td>Commercial Drafting with Revit 3</td>
<td>4</td>
</tr>
<tr>
<td>PSY104</td>
<td>Workplace Psychology+</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

**Early Childhood Education Program**

ece.chemeketa.edu

Early Childhood Education is a comprehensive program of both theory and practical experiences designed to prepare individuals to work with young children. Graduates may qualify to be childcare teachers, assistants, and aids in preschools, day care centers, kindergartens, Head Start programs, and therapeutic relief nurseries. Many of the courses may be helpful to parents of young children and to persons working with families.

Students may select individual courses to meet their needs, or work toward an associate of applied science degree or a one-year certificate of completion, or Career Pathway certificates in Infant/toddler or preschool specializations. Students in the program must earn grades of "C" or better in all Early Childhood Education (ECE) and Human Development and Family Studies (HDF) courses. In order to enroll in certain
courses, students will be required to enroll in the Oregon Child Care Registry, which includes a background check. A valid first aid card is required for graduation in both the one-year and two-year programs.

The on-site laboratory school provides students with hands on experiences working with children. This is where students apply theory from their course work into a classroom setting. Students work side by side with teaching staff and instructors in the lab and receive ongoing coaching about their work. While in the lab, students learn how to develop curriculum, design classroom environments, and assess the development of children. Throughout the program students set goals and reflect on their practice as they work towards developing into professional teachers.

Students who are interested in transferring to a university to earn a bachelor’s degree may elect to substitute ECE/HDF courses with general education courses listed below. Program faculty will provide advising to help students better understand their options.

Program Outcomes

Students completing the Early Childhood Education certificate should be able to:

- Apply principles and skills in observing children-birth to age eight-to select guidance techniques to promote autonomy.
- Plan and implement nutrition plans.
- Practice appropriate communications skills-both written and verbal-with supervisors, colleagues, and parents.
- Plan and implement activities to work with children of diverse ages, backgrounds, and abilities based on developmentally appropriate theories and observations.

Students completing the Infant/Toddler certificate should be able to:

- Understand the developmental stages of children, prenatal to three years.
- Plan and implement appropriate curriculum.
- Demonstrate strategies that encourage healthy social and emotional attachment.
- Be prepared to assess and, if needed, refer children for early intervention screening.
- Use appropriate communication skills with parents of young children.

Students completing the Preschool certificate should be able to:

- Understand the developmental stages of children age two-and-a-half to six years.
- Plan and implement appropriate curriculum.
- Demonstrate strategies that encourage healthy social and emotional attachment.
- Understand assessment methods and use of appropriate referral agencies in the community.
- Use appropriate communication skills with parents of young children.

Students completing the Early Childhood Education degree should be able to:

- Plan and implement curriculum in early childhood education settings that support the physical, social, emotional, and cognitive development of all young children from birth to age eight, based on knowledge of children’s development.
- Use communication strategies to establish positive, collaborative relationships with families and colleagues.
- Self-assess and evaluate professional practices based on a theoretical framework of child development.
- Practice standards for professional ethics as applied to the early childhood workplace environment.

If you have questions about the program requirements, email the Early Childhood Education program chair pam.ditterick@chemeketa.edu or call at 503.399.6076.

Early Childhood Education Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $1,445; class fees, $35; universal fee, $1296 equipment and supplies, $36; immunization fees, $10; basic first-aid card, $35; food handler card, $10; criminal records check, $40; and conference registration, $100. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn a certificate of completion by successfully completing the required 54 credit hours with a grade of “C” or better in all ECE and HDF courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE150</td>
<td>Introduction and Observation</td>
<td>3</td>
</tr>
<tr>
<td>HDF222</td>
<td>Family Relationships+</td>
<td>3</td>
</tr>
<tr>
<td>HDF225</td>
<td>Prenatal, Infant, and Toddler Development</td>
<td>3</td>
</tr>
<tr>
<td>HDF249</td>
<td>Introduction to Working with Infants and Toddlers</td>
<td>3</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+ (or higher)</td>
<td>4</td>
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<tr>
<td>Term 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE151</td>
<td>Observing and Guiding Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ECE152</td>
<td>Creative Activities</td>
<td>3</td>
</tr>
<tr>
<td>ECE155</td>
<td>Child Nutrition, Health, and Safety</td>
<td>3</td>
</tr>
<tr>
<td>NFM225</td>
<td>Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>ECE161</td>
<td>Infant/Toddler Practicum</td>
<td>3</td>
</tr>
<tr>
<td>ECE162</td>
<td>Early Childhood Educator Orientation</td>
<td>2</td>
</tr>
<tr>
<td>HDF247</td>
<td>Preschool Child Development</td>
<td>3</td>
</tr>
<tr>
<td>Term 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE153</td>
<td>Music and Movement for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECE154</td>
<td>Children’s Literature and Literacy</td>
<td>3</td>
</tr>
<tr>
<td>ECE163</td>
<td>Preschool Practicum**</td>
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</tr>
<tr>
<td>HDF229</td>
<td>Middle Childhood Development</td>
<td>3</td>
</tr>
<tr>
<td>MTH211</td>
<td>Elementary Mathematics 1</td>
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</tr>
<tr>
<td>HDF248</td>
<td>Learning Experiences for Young Children</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.
*Requires recommendations from two Early Childhood faculty.
Infant/Toddler Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $436 class fees, $35; universal fee, $360 immunization fees, $10; basic first-aid card, $35; food handler card, $10; criminal records check, $40. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

This certificate provides students with basic skills in the early care and education of infants and toddlers. It is designed for students just entering the early care and education field, those who wish to focus their education and work experience with infants and toddlers, and for those already employed in childcare but who need an immediate certificate to continue working in an Oregon licensed facility. A student may continue to seek the associate degree seamlessly, since the certificate classes are wholly contained within the degree program.

You may earn a certificate of completion by successfully completing the required 15 credit hours with a grade of “C” or better in all courses. Proof of first aid/CPR and food handler cards will be required upon completion of the certificate.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<td>HDF225</td>
<td>Prenatal, Infant, and Toddler Development</td>
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<td>HDF249</td>
<td>Introduction to Working with Infants and Toddlers</td>
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<tr>
<td>Term 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE151</td>
<td>Observing and Guiding Behavior</td>
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</tr>
<tr>
<td>HDF222</td>
<td>Family Relationships</td>
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<tr>
<td>Term 3</td>
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<td></td>
</tr>
<tr>
<td>ECE161</td>
<td>Infant/Toddler Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Preschool Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $384 class fees, $35; universal fee, $336; immunization fees, $10; basic first-aid card, $35; food handler card, $10; criminal records check, $40. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

This certificate provides students with basic skills in the early care and education of preschool children age two-and-a-half to six years. It is designed for students just entering the early care and education field, those who wish to focus their education and work experience with preschoolers, and for those already employed in childcare but who need an immediate certificate to continue working in an Oregon licensed facility. A student may continue to seek the associate degree seamlessly, since the certificate classes are wholly contained within the degree program.

You may earn a certificate of completion by successfully completing the required 14 credit hours with a grade of “C” or better in all courses. Proof of first aid/CPR and food handler cards will be required upon completion of the certificate.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
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<tbody>
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<td></td>
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<tr>
<td>HDF222</td>
<td>Family Relationships</td>
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<td>HDF247</td>
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<td>Term 2</td>
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<tr>
<td>ECE151</td>
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<td>3</td>
</tr>
<tr>
<td>ECE152</td>
<td>Creative Activities</td>
<td>3</td>
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<tr>
<td>Term 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE162</td>
<td>Early Childhood Educator Orientation</td>
<td>2</td>
</tr>
</tbody>
</table>

Early Childhood Education Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $1,855; class fees, $55; universal fee, $2232 based on courses selected; equipment and supplies, $72; immunization fees, $10; basic first-aid card, $35; food handler card, $10; criminal records check, $40; and conference registration, $100. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The following institutions offer Bachelor of Arts and/or Bachelor of Science degrees in Early Childhood Education: Oregon State University, Portland State University, and Western Oregon University. As a student, you are responsible for learning the departmental requirements of the institution to which you plan to transfer. Consult with Chemeketa’s Advising and First Year Programs or an Early Childhood Education faculty advisor. In addition, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

You may earn an associate of applied science degree by successfully completing the required 96 credit hours with a grade of “C” or better in all ECE and HDF courses.

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<th>Title</th>
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<td>ECE150</td>
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<td>HDF222</td>
<td>Family Relationships+</td>
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<tr>
<td>HDF225</td>
<td>Prenatal, Infant, and Toddler Development</td>
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</tr>
<tr>
<td>HDF249</td>
<td>Introduction to Working with Infants and Toddlers</td>
<td>3</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+ (or higher)</td>
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</tr>
<tr>
<td>Term 2</td>
<td></td>
<td></td>
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<tr>
<td>ECE151</td>
<td>Observing and Guiding Behavior</td>
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<td>ECE152</td>
<td>Creative Activities</td>
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<tr>
<td>ECE155</td>
<td>Child Nutrition, Health, and Safety</td>
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<td>Infant/Toddler Practicum</td>
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</tr>
<tr>
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<tr>
<td>ECE153</td>
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<td>Preschool Practicum**</td>
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<tr>
<td>HDF229</td>
<td>Middle Childhood Development</td>
<td>3</td>
</tr>
<tr>
<td>MTH211</td>
<td>Elementary Mathematics 1</td>
<td>4</td>
</tr>
<tr>
<td>HDF248</td>
<td>Learning Experiences for Young Children</td>
<td>4</td>
</tr>
<tr>
<td>Term 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE251</td>
<td>Young Children Environments</td>
<td>3</td>
</tr>
<tr>
<td>ECE261</td>
<td>Student Teaching 1**</td>
<td>6</td>
</tr>
<tr>
<td>HDF285</td>
<td>Professional Issues in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra+ (or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>
Economics

For discipline outcomes, see General Education Outcomes—Social Science on page 55.

Chemeketa offers a number of economics courses. Some of these courses can be used to fulfill the Social Science requirements of the Associate of Arts Oregon Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Oregon's state universities offering Bachelor of Arts and/or Bachelor of Science degrees in Economics are Oregon State University, Portland State University, Southern Oregon University, University of Oregon, and Western Oregon University. U of O also offers a five-year program combining an undergraduate economics major and a master of business administration.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa's Advising and First Year Programs or a Chemeketa Economics faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Education

go.chemeketa.edu/education

Are you interested in becoming a teacher? Start your education degree at Chemeketa! A two-year Associate of Arts Oregon Transfer (AAOT) degree with emphasis on education prepares students for university transfer or for employment as an instructional assistant in local school districts.

Chemeketa has developed two-year transfer tracks designed specifically for students who want to become teachers, both for elementary/middle school and middle/high school (requirements for these two levels is different). The curriculum consists of a foundation of transferable education courses, along with a specific group of general education courses required for a baccalaureate degree in education. The track also includes a colloquium component and practicum experience in local school districts in order to give students the best preparation possible. Courses are offered on the Salem and Woodburn campuses. Students planning to pursue a degree in education should contact Advising and First Year Programs at 503.399.5120 as soon as possible to ensure proper coursework.

Transferring into education programs requires a 2.75 GPR or higher. It is recommended that students take the ORELA licensing tests.

Bilingual students are encouraged to consider this curriculum. To qualify as bilingual, students must demonstrate language proficiency. For details, contact Education program staff at 503.399.5140.

Elementary/Middle School Education

For discipline outcomes, see General Education Outcomes beginning on page 54.

Chemeketa has developed transfer guides with some of Oregon's public and private universities offering Elementary/Middle School Education licensure programs. The following offer Bachelor of Arts and/or Bachelor of Science degrees in Elementary/Middle School Education: Oregon State University, University of Oregon, Eastern Oregon University, Pacific University, Corban University, Concordia University, and Western Oregon University. It is recommended that students take 200-level language classes. Education majors who are native speakers may take the Spanish of Native Speakers class and test for the Oregon Seal of Biliteracy.

Recommended 90-credit path for Elementary/Middle School Teaching Licensure:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE280</td>
<td>Cooperative Work Experience</td>
<td>4</td>
</tr>
<tr>
<td>or BI101</td>
<td>General Biology: Ecology and Diversity</td>
<td>4</td>
</tr>
<tr>
<td>HDF257</td>
<td>Home, School, and Community</td>
<td>3</td>
</tr>
<tr>
<td>HDF258</td>
<td>Teaching in an Anti-Bias Classroom***</td>
<td>3</td>
</tr>
<tr>
<td>or GEG106</td>
<td>Cultural Geography</td>
<td>4</td>
</tr>
<tr>
<td>Arts and Letters elective*</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>or Science/Applied Science elective*</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>or Communications elective* **</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Computer Science elective**</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>Student Teaching 2***</td>
<td>6</td>
</tr>
<tr>
<td>or MTH212</td>
<td>Foundations of Elementary Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>and MTH213</td>
<td>Foundations of Elementary Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>or ECE295</td>
<td>Administration of Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>Programs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or COMM11</td>
<td>Fundamentals of Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>Arts and Letters elective*</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>or Science/Applied Science elective*</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>or Communications elective*</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

*Selection may not be repeated.

**See Associate of Applied Science degree guidelines on page 64.

***Students transferring to Western Oregon University should see advisor.

****Requires recommendation from two Early Childhood Education program faculty members.

Term 5

Term 6

ECE262    | Student Teaching 2***                           | 6            |
| or MTH212| Foundations of Elementary Mathematics           | 4            |
| and MTH213| Foundations of Elementary Mathematics           | 4            |
| ECE295   | Administration of Early Childhood Education     | 3            |
| Programs                                         |              |
| or COMM11| Fundamentals of Public Speaking                 | 4            |
| Arts and Letters elective*                      | 4            |
| or Science/Applied Science elective*            | 4            |
| or Communications elective*                     | 4            |

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Secondary Education

For discipline outcomes, see General Education Outcomes beginning on page 54.

Chemeketa has developed transfer guides with some of Oregon’s public and private universities offering Middle/High School Education licensure programs. Bachelor of Arts and/or Bachelor of Science degrees are available in Middle/High School Education through Pacific University.

Other universities recommend a bachelor’s of science degree in the content area you plan to teach in (i.e. Bachelor in Math or Social Science) plus a Master’s Degree in Teaching.

Electronic Technologies Program

go.chemeketa.edu/electronics
See also Robotics Program

Career opportunities in the electronics field are diverse, exciting, and rewarding. Chemeketa’s electronics department offers one certificate and three associate of applied science degrees to meet the present and future challenges of the electronics industry: certificate in Electronics, and associate of applied science degrees in Electronic Engineering Technician, Industrial Electronics, and Renewable Energy Management.

You may be interested in our Cooperative Work Experience program, which allows you to earn college credit for work you do related to your program. You will need department approval before you may enroll in ELT280A-H Cooperative Work Experience. For more information, look under Cooperative Work Experience in the catalog index or contact Charles Sekafetz at 503.399.6254.

For additional information or tours of the electronics laboratory, visit electronics.chemeketa.edu, or contact Charles Sekafetz at 503.399.6254.

Program Outcomes:

Students completing the Electronics certificate should be able to:

- Apply professional and environmental safety practices associated with the workplace.
- Use standard terminology and clarifying language to communicate orally and in writing with customers, suppliers, supervisors, and co-workers.
- Use test equipment and perform basic test procedures.

Students completing the Electronic Engineering degree should be able to:

- Use communication, interpersonal, and leadership skills to establish and maintain collaborative relationships with supervisors, coworkers, and customers.
- Identify and solve technology problems related to electronic circuits and devices, mechanical systems, and computer hardware or software.
- Perform test procedures and use equipment to diagnose, maintain, and/or repair electronic/computer-based circuits and systems.
• Read and interpret written materials, including manuals, technical bulletins, schematics, and procedures to maintain and repair equipment or systems.
• Use standard terminology and clarifying language to communicate orally and in writing with customers, suppliers, supervisors, and co-workers.
• Practice skills and attitudes-individually and as a member of a team-that reflect quality management procedures and professional standards in the workplace.
• Apply professional and environmental safety practices associated with the workplace.

In addition to the Electronic Engineering outcomes, students completing the Industrial Electronics degree should be able to:

• Identify and solve technology problems related to the development, manufacturing, installation, and servicing of computer integrated manufacturing systems, semiconductor and microelectronic manufacturing equipment, process control equipment, and robotic and other electromechanical systems.

In addition to the Electronic Engineering outcomes, students completing the Renewable Energy Management degree should be able to:

• Evaluate the energy use and recommend appropriate alternative energy solutions as well as energy conservation methods for various applications.

If you have questions about the requirements, contact Charles Sekafetz 503.399.6254.

Electronics Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $1,696; class fees, $370; universal fee, $1,032; and equipment and supplies, $75; and Intel-compatible computer, $800. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The three-term Electronics certificate focuses on core electronics concepts; use of testing and monitoring equipment; the fundamentals of electronics-related materials, including blueprints, schematics, and work procedures; as well as industry recognized safety practices. The certificate is designed to provide graduates with the basic skills and knowledge of electronics. Courses are wholly contained in the Renewable Energy Management degree.

You may earn a certificate of completion by successfully completing the required 43 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course Term 1</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ELT111</td>
<td>Electronics Orientation</td>
<td>1</td>
</tr>
<tr>
<td>ELT131</td>
<td>Electronic Concepts 1</td>
<td>4</td>
</tr>
<tr>
<td>MTH081</td>
<td>Technical Mathematics 1</td>
<td>4</td>
</tr>
<tr>
<td>MTH111</td>
<td>College Algebra+</td>
<td>5</td>
</tr>
<tr>
<td>WR088</td>
<td>Introduction to Technical Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+</td>
<td>4</td>
</tr>
</tbody>
</table>

Term 2

| ELT132        | Electronic Concepts 2  | 4            |
| ELT141        | Transistor Fundamentals| 4            |
| ELT151        | Digital Fundamentals   | 4            |
| MTH082        | Technical Mathematics 2| 4            |
| MTH112        | Trigonometry           | 5            |

Term 3

| ELT133        | Electronic Concepts 3  | 4            |
| ELT142        | Semiconductor Optoelectronic Devices | 3 |
| ELT161        | Linear IC Fundamentals  | 4            |
| FE205B        | Resumes and Job Search Correspondence| 1 |
| WR089         | Introduction to Technical Writing 2  | 3 |
| WR227         | Technical Writing       | 4            |

Electronic Engineering Technician Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $3,410; class fees, $774; universal fee, $2,472; Intel-compatible computer, $800; and equipment and supplies, $510. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

Upon graduation from the Electronic Engineering Technician degree, you may begin a career assisting in the design, manufacturing, installation, and service of microelectronics and semiconductor manufacturing systems, telecommunication equipment and systems, electronic test instruments, medical measuring and monitoring equipment, computers, video systems, automation products, security and safety systems, process control systems, and flexible automation systems (robots). Training includes specific technical skills needed in the field and broader skills in communications, teamwork, and human relations, which are necessary for career success.

As a graduate of this program, you may choose to transfer to a school such as Oregon Institute of Technology to complete the coursework required for a bachelor’s degree. If you wish to transfer, declare your intent before the first term and work closely with electronics advisor Charles Sekafetz, 503.399.6254, and the institution to which you plan to transfer.

Students entering this program must have an Intel-compatible computer (Pentium 4 or better) and be computer literate (type approximately 20 wpm, and be familiar with the Windows operating system and word processing and spreadsheet software).

You may earn an associate of applied science degree by successfully completing the required 103 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course Term 1</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>DRF101</td>
<td>Basic CAD for Electronics</td>
<td>2</td>
</tr>
<tr>
<td>ELT111</td>
<td>Electronics Orientation</td>
<td>1</td>
</tr>
<tr>
<td>ELT131</td>
<td>Electronic Concepts 1</td>
<td>4</td>
</tr>
<tr>
<td>MTH081</td>
<td>Technical Mathematics 1+</td>
<td>4</td>
</tr>
<tr>
<td>MTH111</td>
<td>College Algebra+ (or higher)</td>
<td>5</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+</td>
<td>4</td>
</tr>
</tbody>
</table>
### Industrial Electronics Associate of Applied Science Degree Option

In addition to tuition, estimated costs for students who complete the courses listed below are books, $3,303; class fees, $674; universal fee, $2,472; Intel-compatible computer, $800; and equipment and supplies, $600. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

Students selecting the Industrial Electronics degree may begin careers assisting in the development, manufacturing, installation, and servicing of computer-integrated manufacturing systems, semiconductor, and microelectronic manufacturing equipment, process control equipment, and robotic and other electromechanical systems. This degree stresses mechanical, computer, and electronic theory, as well as the communication and human relation skills needed for career advancement.

As a graduate of this program, you may choose to transfer to a school such as Oregon Institute of Technology to complete the coursework required for a bachelor's degree. If you intend to transfer, declare your intent before the first term and work closely with electronics advisor Charles Sekafetz, 503.399.6254, and the institution to which you plan to transfer.

Students entering this program must have an Intel-compatible computer (Pentium 4 or better) and be computer literate (type approximately 20 wpm, and be familiar with the Windows operating system and word processing and spreadsheet software).

<table>
<thead>
<tr>
<th>Term 2</th>
<th>ELT132</th>
<th>Electronic Concepts 2</th>
<th>4</th>
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<tbody>
<tr>
<td></td>
<td>ELT141</td>
<td>Transistor Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ELT151</td>
<td>Digital Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MTH082</td>
<td>Technical Mathematics 2</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>MTH112</td>
<td>Trigonometry (or higher)</td>
<td>5</td>
</tr>
<tr>
<td>Term 3</td>
<td>ELT133</td>
<td>Electronic Concepts 3</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ELT142</td>
<td>Semiconductor Optoelectronic Devices</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ELT143</td>
<td>Pulse Circuit Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ELT161</td>
<td>Linear IC Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>WR227</td>
<td>Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td>Term 4</td>
<td>COMM111</td>
<td>Fundamentals of Public Speaking</td>
<td>4</td>
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<tr>
<td></td>
<td>ELT121</td>
<td>Programming Concepts 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ELT244</td>
<td>Electronic Circuit Analysis</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ELT252</td>
<td>Digital Circuit Applications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PH121</td>
<td>Applied Physics</td>
<td>4</td>
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<tr>
<td></td>
<td>PH201</td>
<td>General Physics</td>
<td>5</td>
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<tr>
<td>Term 5</td>
<td>ELT253</td>
<td>Microprocessor Systems</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ELT262</td>
<td>Linear IC Applications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ELT281</td>
<td>Antennas and Transmission Lines</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>ELT282</td>
<td>Telecommunications</td>
<td>3</td>
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<td></td>
<td>FE205B</td>
<td>Resumes and Job Search Correspondence</td>
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<tr>
<td></td>
<td>PH122</td>
<td>Applied Physics</td>
<td>4</td>
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<tr>
<td></td>
<td>PH202</td>
<td>General Physics</td>
<td>5</td>
</tr>
<tr>
<td>Term 6</td>
<td>ELT283</td>
<td>Logical Troubleshooting</td>
<td>4</td>
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<tr>
<td></td>
<td>ELT291</td>
<td>Control, Robotics, and Power Systems</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>PSY104</td>
<td>Workplace Psychology+</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Electronics electives*</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

*Electronics electives (select 6 credits):

(For second-year students only; must have prior approval of the Program Chair.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CH121</td>
<td>College Chemistry 1</td>
</tr>
<tr>
<td>ELT222</td>
<td>Programming Concepts 2</td>
</tr>
<tr>
<td>ELT280C</td>
<td>Cooperative Work Experience</td>
</tr>
<tr>
<td>ELT293</td>
<td>Flexible Manufacturing Systems and Processes</td>
</tr>
<tr>
<td>MT101</td>
<td>Introduction to Process Control</td>
</tr>
<tr>
<td>MT110</td>
<td>Microelectronics and Solar Cell Manufacturing</td>
</tr>
<tr>
<td>MT211</td>
<td>Sensor and Control Elements 1</td>
</tr>
<tr>
<td>MT212</td>
<td>Sensor and Control Elements 2</td>
</tr>
<tr>
<td>MT215</td>
<td>Instrumentation</td>
</tr>
<tr>
<td>MT227A</td>
<td>Pneumatics and Hydraulics Fundamentals</td>
</tr>
<tr>
<td>MT231</td>
<td>Programmable Logic Controllers 1</td>
</tr>
<tr>
<td>MT232</td>
<td>Programmable Logic Controllers 2</td>
</tr>
<tr>
<td>MT235</td>
<td>Human Machine Interfaces</td>
</tr>
<tr>
<td>MT241</td>
<td>System Calibration and Standards</td>
</tr>
<tr>
<td>MT281</td>
<td>Process Control Practicum 1</td>
</tr>
<tr>
<td>MT282</td>
<td>Process Control Practicum 2</td>
</tr>
<tr>
<td>MT283</td>
<td>Process Control Practicum 3</td>
</tr>
<tr>
<td>MTH241</td>
<td>Elementary Calculus</td>
</tr>
<tr>
<td>MTH243</td>
<td>Probability and Statistics 1</td>
</tr>
<tr>
<td>MTH251</td>
<td>Differential Calculus (or higher)</td>
</tr>
<tr>
<td>RNW110</td>
<td>Solar Energy Systems</td>
</tr>
<tr>
<td>RNW120</td>
<td>Wind Energy Systems</td>
</tr>
<tr>
<td>RNW130</td>
<td>Biomass Energy Systems</td>
</tr>
<tr>
<td>RNW140</td>
<td>Hydroelectric and Geothermal Energy Systems</td>
</tr>
<tr>
<td>RNW180</td>
<td>Energy Management</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 54.
You may earn an associate of applied science degree by successfully completing the required 103 credit hours with a grade of "C" or better in all courses.

<table>
<thead>
<tr>
<th>Course Term</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>DRF101 Basic CAD for Electronics</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>ELT111 Electronics Orientation</td>
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</tr>
<tr>
<td></td>
<td>ELT131 Electronic Concepts 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MT110 Microelectronics and Solar Cell Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MTH081 Technical Mathematics 1+</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MTH111 College Algebra+ (or higher)</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>WR121 Academic Composition+</td>
<td>4</td>
</tr>
<tr>
<td>Term 2</td>
<td>ELT132 Electronic Concepts 2</td>
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</tr>
<tr>
<td></td>
<td>ELT141 Transistor Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ELT151 Digital Fundamentals</td>
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<tr>
<td></td>
<td>MTH082 Technical Mathematics 2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MTH112 Trigonometry (or higher)</td>
<td>5</td>
</tr>
<tr>
<td>Term 3</td>
<td>ELT133 Electronic Concepts 3</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ELT142 Semiconductor Optoelectronic Devices</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ELT143 Pulse Circuit Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ELT161 Linear IC Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>WR227 Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td>Term 4</td>
<td>COMM111 Fundamentals of Public Speaking</td>
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<tr>
<td></td>
<td>ELT121 Programming Concepts 1</td>
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<td>CIS133J Fundamentals of Java Programming 1</td>
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<td>ELT244 Electronic Circuit Analysis</td>
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<td>ELT252 Digital Circuit Applications</td>
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<td>Term 5</td>
<td>ELT253 Microprocessor Systems</td>
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<td>ELT262 Linear IC Applications</td>
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<td>PH122 Applied Physics</td>
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<td>PH202 General Physics</td>
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<tr>
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<td>Technical elective*</td>
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</tr>
<tr>
<td>Term 6</td>
<td>ELT291 Control, Robotics, and Power Systems</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>PSY104 Workplace Psychology+</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Technical electives*</td>
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</table>

*R=Technical electives:

<table>
<thead>
<tr>
<th>Course Term</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CH121 College Chemistry 1</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>ELT283 Logical Troubleshooting</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ELT293 Flexible Manufacturing Systems and Procedures</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MT227A Pneumatics and Hydraulics Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MTH243 Probability and Statistics 1</td>
<td>4</td>
</tr>
</tbody>
</table>

Renewable Energy Management Associate of Applied Science Degree Option

In addition to tuition, estimated costs for students who complete the courses listed below are books, $2,929; class fees, $740; universal fee, $2,256; equipment and supplies, $625; and Intel-compatible computer, $800. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Renewable Energy Management degree coursework prepares students for employment designing, installing, and managing renewable energy systems. They may find work with national and international installation contractors in the areas of marketing and sales, materials estimating, and sizing and design. Students of this program will follow the first-year curriculum of the Electronics Engineering Technician degree.

During the second year, students of the Renewable Energy Management degree will take coursework covering solar, wind, biomass, hydroelectric, and geothermal energy systems. A course in energy management systems will provide a capstone experience for students.

You may earn an associate of applied science degree by successfully completing the required 94 credit hours with a grade of "C" or better in all courses.

<table>
<thead>
<tr>
<th>Course Term</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ELT111 Electronics Orientation</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ELT131 Electronic Concepts 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MT110 Microelectronics and Solar Cell Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MTH081 Technical Mathematics 1+</td>
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<tr>
<td></td>
<td>MTH111 College Algebra+ (or higher)</td>
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<tr>
<td></td>
<td>WR121 Academic Composition+</td>
<td>4</td>
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<tr>
<td>Term 2</td>
<td>ELT132 Electronic Concepts 2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ELT141 Transistor Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ELT151 Digital Fundamentals</td>
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</tr>
<tr>
<td></td>
<td>MTH082 Technical Mathematics 2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MTH112 Trigonometry (or higher)</td>
<td>5</td>
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<tr>
<td>Term 3</td>
<td>ELT133 Electronic Concepts 3</td>
<td>4</td>
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<tr>
<td></td>
<td>ELT142 Semiconductor Optoelectronic Devices</td>
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<td>ELT161 Linear IC Fundamentals</td>
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<td>WR089 Introduction to Technical Writing 1+</td>
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<tr>
<td></td>
<td>WR121 Academic Composition+</td>
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<tr>
<td>Term 4</td>
<td>COMM111 Fundamentals of Public Speaking</td>
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<tr>
<td></td>
<td>ELT121 Programming Concepts 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ELT252 Digital Circuit Applications</td>
<td>3</td>
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<td></td>
<td>PH121 Applied Physics</td>
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<td>PH201 General Physics</td>
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<tr>
<td></td>
<td>RNW110 Solar Energy Systems</td>
<td>3</td>
</tr>
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</table>

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Program Outcomes

Students completing the Emergency Medical Technician certificate should be able to:

- Assess patients and apply treatment protocols in emergency medical situations.
- Use oral and written skills to communicate effectively in anxiety producing situations with patients, families, and members of the health care team.
- Perform all basic and advanced life support skills in a safe and timely manner.
- Provide on-scene leadership in emergency medical care situations.
- Apply professional values and ethical behaviors individually and as a member of a team in providing emergency care.

Students completing the Paramedicine degree should be able to:

- Assess patients and apply treatment protocols in emergency medical situations.
- Use oral and written skills to communicate effectively in anxiety producing situations with patients, families, and members of the health care team.
- Perform all basic and advanced life support skills in a safe and timely manner.
- Provide on-scene leadership in emergency medical care situations.
- Apply professional values and ethical behaviors individually and as a member of a team in providing emergency care.

Paramedicine Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $800; lab fees, $1,200; universal fee, $2,424; vaccination cost, $1,100; testing and licensing fees, $700; uniform/PPE equipment $400. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 101 credit hours with a grade of “C” or better in all courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BI231</td>
<td>Human Anatomy and Physiology 1 ..........</td>
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<tr>
<td>EMT175</td>
<td>Introduction to Emergency Medical Service</td>
<td>3</td>
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<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ES172</td>
<td>Introduction to Emergency Services ..........</td>
<td>4</td>
</tr>
<tr>
<td>HM120</td>
<td>Medical Terminology 1 ..................</td>
<td>3</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+ (or higher) ..........</td>
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</tbody>
</table>
## Engineering

### For discipline outcomes, see General Education Outcomes—Math and Science on page 55.

[go.chemeketa.edu/engineering](go.chemeketa.edu/engineering)

Oregon State University (OSU) and Portland State University (PSU) offer Bachelor of Science degrees in Engineering. OSU offers degrees in Biological, Chemical, Civil, Ecological, Electrical and Computer, Environmental, Industrial and Manufacturing, Mechanical, and Nuclear Engineering, as well as Construction Engineering Management. PSU offers degrees in Civil, Computer, Electrical, Environmental, and Mechanical Engineering.

Students can transfer at the junior level into engineering programs at OSU or PSU or Bachelor of Science engineering programs available at other institutions by successfully completing coursework at Chemeketa. Specific required courses vary according to discipline and school selected. As a prospective student, you are required to meet with Chemeketa Engineering instructor (Mark Miller 503.399.5225, or mark.miller@chemeketa.edu), or Advising and First Year Programs to develop your educational plan. Also, you should make early contact with an engineering advisor at the institution to which you plan to transfer to learn of any possible changes in program requirements.

### English as a Non-Native Language

The English as a Non-native Language program is an intensive, multi-level program designed to teach non-native English speaking students the reading, writing, listening, speaking, and intercultural skills necessary for success in academic and professional work settings. The program has reading, writing, and listening skills entry-level prerequisites for each course. To have your language skill levels assessed for placement in any of these classes, contact Academic Development Department office at 503.399.5224. The length of time required to complete the program will depend on your skills in each of these areas. Students who successfully complete the ESOL program are eligible for special classes designed to support transition to college at a significantly reduced cost.

### Fire Protection Technology Program

[go.chemeketa.edu/fire](go.chemeketa.edu/fire)

The Fire Protection program offer career training in Fire Prevention and Fire Suppression. Both degree programs include training and education for those entering the career field and for those already employed. The Fire Service...
Supervision and Management certificate is designed to prepare current firefighters for promotion to officer positions. Chemeketa has a well-equipped fire station and training center on the Salem Campus and at the Emergency Services Regional Training Center in nearby Brooks, Oregon. Coursework is accredited by the Oregon Board on Public Safety Standards and Training and by the International Fire Service Accreditation Congress.

Classes in this program are offered in the traditional on-campus classroom setting for students just beginning their fire protection training, and by distance education for fire service professionals active in the field. Distance education may include earning college credit for prior learning such as local training and work experience, individualized instructional contracts, transfer credits from local schools, and independent study courses online or by correspondence. For information about distance education, call 503.399.5163.

**Program Outcomes**

Students completing the Fire Prevention degree should be able to:

- Exhibit safety practices under general supervision to prevent the occurrence and severity of hostile fires, to mitigate the effect of fire on people, and to assist in the determination of the cause of such fires.
- Demonstrate effective verbal and written communications skills to meet the needs of internal and external customers, resolve conflicts, and explain fire prevention concepts in a manner that places a high priority on customer satisfaction.
- Exhibit the ability to collaborate with a diversity of colleagues in order to accomplish goals of the organization.
- Demonstrate the ability to conduct risk reduction inspections through employing hazard identification, interpreting and applying codes and standards, and applying hazard abatement process.
- Demonstrate the ability to conduct, coordinate, and complete basic fire cause and origin investigation and participate, under supervision, in the investigation of complex fire situations.

Students completing the Fire Service Supervision and Management certificate should be able to:

- Demonstrate skills and knowledge to function as a NFPA Fire Officer 1 and 2.
- Demonstrate effective verbal and written communications skills in both emergency and non-emergency situations.
- Exhibit the ability to collaborate with a diversity of colleagues in order to accomplish goals of the organization.
- Exhibit the ability to utilize human resources to accomplish assignments in accordance with safety plans and in an efficient manner and evaluating members’ performance in the daily operations of a fire station and in emergency and non-emergency situations.
- Demonstrate the ability to perform administrative functions and the implementation departmental policies and procedures at the unit level, according to job performance requirements.

Students completing the Fire Suppression degree should be able to:

- Exhibit safety practices as a response team member when engaged in training or emergency response activities.
- Demonstrate effective verbal and written communications skills in both emergency and non-emergency situations.
- Explain effective risk reduction activities through accurate hazard identification and public education activities.
- Demonstrate the ability to collaborate with a diversity of colleagues in order to accomplish the goals of the organization and successfully participate in the daily operations of a fire station.
- Demonstrate skills and knowledge to function as an EMT Basic, firefighter I, driver and pumper operator.

**Fire Prevention Associate of Applied Science Degree**

In addition to tuition, estimated costs for students who complete the courses listed below are books, $2,450; class fees, $534; universal fee, $2,472; Differential Fee; $670 and equipment and supplies, $25. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

Graduates of the Fire Prevention program may be hired by public fire departments and industrial businesses as fire prevention specialists.

Our Cooperative Work Experience program allows you to apply your knowledge and skills while earning college credit for working in a state or local fire prevention bureau. With the approval of the program chair, you may enroll in FRP280B-L Cooperative Work Experience and earn college credit hours. For more information, look under Cooperative Work Experience in the catalog index.

You may earn an associate of applied science degree by successfully completing the required 103 credit hours with a grade of “C” or better in all courses. For information, call 503.399.6240.

<table>
<thead>
<tr>
<th>Course Title Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course  Term 1</td>
</tr>
<tr>
<td>BLD151 Building Codes 1........................................................................................................................................3</td>
</tr>
<tr>
<td>FRP150 Introduction to Fire Protection.................................3</td>
</tr>
<tr>
<td>or ES172 Introduction to Emergency Services .........................4</td>
</tr>
<tr>
<td>FRP260 Fundamentals of Fire Prevention.................................3</td>
</tr>
<tr>
<td>FRP266 Building Construction for Fire Suppression..................3</td>
</tr>
<tr>
<td>MTH095 Intermediate Algebra+ (or higher) .........................4</td>
</tr>
<tr>
<td>Term 2</td>
</tr>
<tr>
<td>BLD152 Building Codes 2........................................................................................................................................3</td>
</tr>
<tr>
<td>CIS101 Computing Concepts (or higher).................................3</td>
</tr>
<tr>
<td>FRP172 International Fire Codes........................................3</td>
</tr>
<tr>
<td>PH111 Physical Science for Fire Science and Emergency Services (or higher)..........................5</td>
</tr>
<tr>
<td>WR121 Academic Composition+ (or higher).................................4</td>
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<tr>
<td>Term 3</td>
</tr>
<tr>
<td>BLD267 Non-Structural Plan Review........................................3</td>
</tr>
<tr>
<td>CH110 Foundations of General, Organic, and Biochemistry........5</td>
</tr>
<tr>
<td>COMM115 Introduction to Intercultural Communication (or higher) 4</td>
</tr>
<tr>
<td>FRP171 Fire Protection Systems and Extinguishers..................3</td>
</tr>
<tr>
<td>WR227 Technical Writing..........................................................4</td>
</tr>
</tbody>
</table>
An individualized program of study will be developed for you. Your training, education, and experience will be evaluated. An individualized program of study will be developed for you.

To be admitted to this program, you must be interviewed and Oregon Standards for Fire Officer 1 and 2. To be admitted to the certificate program, you must be certified as Firefighter 1 (or equivalent) and actively be pursuing Firefighter 2 or have knowledge. The certificate program meets or exceeds NFPA

The Fire Service Supervision and Management certificate can help you prepare for promotion to officer positions; or if you are already a fire officer, you can gain valuable new skills and knowledge. The certificate program meets or exceeds NFPA and Oregon Standards for Fire Officer 1 and 2. To be admitted to the certificate program, you must be certified as Firefighter 1 (or equivalent) and actively be pursuing Firefighter 2 or have an associate degree in fire protection or possess professional certificates and have experience or equivalent credentials in fire prevention, fire training, or public fire education.

To be admitted to this program, you must be interviewed by the program chair, Bill Klein, 503.399.6240, and have your training, education, and experience evaluated. An individualized program of study will be developed for you.

You may earn a certificate of completion by successfully completing the required 56 credit hours with a grade of “C” or better in all courses.

### Course Title Credit Hours

#### Term 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>FRP169</td>
<td>Fire Department Leadership</td>
<td>3</td>
</tr>
<tr>
<td>FRP166</td>
<td>Firefighter's Law</td>
<td>1</td>
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<tr>
<td>FRP173</td>
<td>Law for Emergency Services</td>
<td>3</td>
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<tr>
<td>FRP174</td>
<td>Fire Investigation</td>
<td>4</td>
</tr>
<tr>
<td>FRP277</td>
<td>NFPA Fire Instructor 1</td>
<td>3</td>
</tr>
<tr>
<td>MTH095</td>
<td>Intermediate Algebra (or higher)</td>
<td>4</td>
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</tbody>
</table>

#### Term 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRP154</td>
<td>Water Supply Operations</td>
<td>3</td>
</tr>
<tr>
<td>FRP159</td>
<td>Incident Safety Officer</td>
<td>1</td>
</tr>
<tr>
<td>FRP160</td>
<td>Fire Management Practices</td>
<td>1</td>
</tr>
<tr>
<td>FRP161</td>
<td>Planning Fire Protection</td>
<td>1</td>
</tr>
<tr>
<td>FRP162</td>
<td>Managing Fire Personnel</td>
<td>1</td>
</tr>
<tr>
<td>FRP163</td>
<td>Fire Department Budgets</td>
<td>1</td>
</tr>
<tr>
<td>FRP164</td>
<td>Planning Fire Protection</td>
<td>1</td>
</tr>
<tr>
<td>FRP257</td>
<td>Hazardous Materials for Inspectors</td>
<td>3</td>
</tr>
<tr>
<td>FRP259</td>
<td>Major Emergency Strategy and Tactics</td>
<td>3</td>
</tr>
<tr>
<td>PS203</td>
<td>State and Local Government</td>
<td>4</td>
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<tr>
<td>PSY101</td>
<td>Psychology of Human Relations (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>SOC204</td>
<td>The Sociological Perspective (or higher)</td>
<td>4</td>
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<tr>
<td>CH110</td>
<td>Foundations of General, Organic, and Biochemistry (or higher)</td>
<td>5</td>
</tr>
<tr>
<td>PH111</td>
<td>Physical Science for Fire Science and Emergency Services (or higher)</td>
<td>5</td>
</tr>
</tbody>
</table>

### Communications electives:

BA214 | Business Communications | 3 |
WR088 | Introduction to Technical Writing (1 or higher) | 3 |
WR115 | Introduction to Composition (or higher) | 4 |
WR121 | Academic Composition (or higher) | 4 |
WR227 | Technical Writing | 4 |

### Science electives:

**Human Relations electives:**

PSY101 | Psychology of Human Relations (or higher) | 4 |
SOC204 | The Sociological Perspective (or higher) | 4 |

**Science electives:**

CH110 | Foundations of General, Organic, and Biochemistry (or higher) | 5 |
PH111 | Physical Science for Fire Science and Emergency Services (or higher) | 5 |

Any combination of one Chemistry and one Physics course of at least four (4) credit hours each, which include a lab component.
Fire Suppression Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $2,950; lab fees, $1775; universal fee, $2,544; Differential Fee; $690 and equipment and supplies, $1,522. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

Most firefighters work for public fire departments. Chemeketa’s program includes a variety of courses in writing, mathematics, and speech as well as technical fire protection courses. Each term, students take a Fire Incident Related Experience course, which focuses on developing required skills, attitudes, and work habits. On-campus fire suppression students work a 24-hour duty shift each week and respond to actual emergency incidents under the supervision of fire department officers.

The Fire Suppression degree program can be coordinated with the Emergency Medical Technician/Paramedic program so that both degrees can be earned in between nine and 11 terms. Dual-degree students are provided with an individualized sequence of courses that may vary depending on the term in which classes are begun. For information, call 503.399.6240.

This program has special admission requirements and enrollment limits. Applications are accepted every nine months. For additional information, call 503.399.6240. The program operates year-round, including summer term. You may earn an associate of applied science degree by successfully completing the required 106 credit hours with a grade of “C” or better in all courses.

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<th>Credit Hours</th>
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<tbody>
<tr>
<td>Term 1</td>
<td>EMT151</td>
<td>EMT, Part 1 ........................................... 5</td>
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<tr>
<td></td>
<td>FRP150</td>
<td>Introduction to Fire Protection ...................... 3</td>
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<tr>
<td></td>
<td>ES172</td>
<td>Introduction to Emergency Services .................... 4</td>
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<tr>
<td></td>
<td>FRP151</td>
<td>Fire Incident Related Experience 1 ..................... 3</td>
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<tr>
<td></td>
<td>FRP157</td>
<td>Hazardous Materials Operations ......................... 3</td>
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<tr>
<td></td>
<td>WR121</td>
<td>Academic Composition+ (or higher) ...................... 4</td>
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<tr>
<td>Term 2</td>
<td>EMT152</td>
<td>EMT, Part 2 ........................................... 5</td>
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<tr>
<td></td>
<td>FRP152</td>
<td>Fire Incident Related Experience 2 ..................... 3</td>
</tr>
<tr>
<td></td>
<td>FRP159</td>
<td>Fire Behavior and Combustion .......................... 3</td>
</tr>
<tr>
<td></td>
<td>FRP266</td>
<td>Building Construction for Fire Suppression ............. 3</td>
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<tr>
<td></td>
<td>MTH095</td>
<td>Intermediate Algebra+ (or higher) ..................... 4</td>
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<tr>
<td>Term 3</td>
<td>CH110</td>
<td>Foundations of General, Organic, and Biochemistry .... 5</td>
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<tr>
<td></td>
<td>FRP153</td>
<td>Fire Incident Related Experience 3 ..................... 3</td>
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<tr>
<td></td>
<td>FRP154</td>
<td>Water Supply Operations .................................. 3</td>
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<td>FRP158</td>
<td>Fire Pump Construction and Operation .................. 3</td>
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<tr>
<td></td>
<td>FRP169</td>
<td>Fire Department Leadership ............................ 3</td>
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<tr>
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<td>FRP170</td>
<td>Fire Incident Related Experience 4 ..................... 3</td>
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<td></td>
<td>HPE295</td>
<td>Health and Fitness for Life ............................ 3</td>
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<tr>
<td></td>
<td>SOC204</td>
<td>The Sociological Perspective ........................... 4</td>
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<td></td>
<td>SOC205</td>
<td>United States Society ................................... 4</td>
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<tr>
<td></td>
<td>SOC206</td>
<td>Social Problems .......................................... 4</td>
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Term 4

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<tbody>
<tr>
<td></td>
<td>CIS101</td>
<td>Computing Concepts (or higher) ....................... 3</td>
</tr>
<tr>
<td></td>
<td>FRP260</td>
<td>Fundamentals of Fire Prevention ....................... 3</td>
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<tr>
<td></td>
<td>FRP261</td>
<td>Fire Incident Related Experience 4 ................... 3</td>
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<td>HPE295</td>
<td>Health and Fitness for Life ............................ 3</td>
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<tr>
<td></td>
<td>SOC204</td>
<td>The Sociological Perspective ........................... 4</td>
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<tr>
<td></td>
<td>SOC205</td>
<td>United States Society ................................... 4</td>
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<td>SOC206</td>
<td>Social Problems .......................................... 4</td>
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Term 5

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<tr>
<td></td>
<td>COMM115</td>
<td>Introduction to Intercultural Communication .......... 4</td>
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<tr>
<td></td>
<td>FRP172</td>
<td>International Fire Codes ................................ 3</td>
</tr>
<tr>
<td></td>
<td>FRP173</td>
<td>Law for Emergency Services ................................ 3</td>
</tr>
<tr>
<td></td>
<td>FRP179</td>
<td>Wildland Urban Interface ................................ 3</td>
</tr>
<tr>
<td></td>
<td>FRP256</td>
<td>Emergency Services Rescue Practices .................... 4</td>
</tr>
<tr>
<td></td>
<td>FRP262</td>
<td>Fire Incident Related Experience 5 ..................... 3</td>
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Term 6

<table>
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<tbody>
<tr>
<td></td>
<td>FRP171</td>
<td>Fire Protection Systems and Extinguishers ............ 3</td>
</tr>
<tr>
<td></td>
<td>FRP263</td>
<td>Fire Incident Related Experience 6 .................... 3</td>
</tr>
<tr>
<td></td>
<td>PSY101</td>
<td>Psychology of Human Relations+ (or higher) .......... 4</td>
</tr>
<tr>
<td></td>
<td>WR227</td>
<td>Technical Writing ........................................ 4</td>
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</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

*Fire Suppression electives:

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td></td>
<td>Bi231</td>
<td>Human Anatomy and Physiology 1 ....................... 4</td>
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<td>BLD151</td>
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<td>EMT167A</td>
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<td></td>
<td>EMT175</td>
<td>Introduction to Emergency Medical Services .......... 3</td>
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<td>EMT280F</td>
<td>Cooperative Work Experience ......................... 6</td>
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<tr>
<td></td>
<td>ES115</td>
<td>Crisis Intervention ....................................... 3</td>
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<td>FRP160</td>
<td>Incident Safety Officer .................................. 1</td>
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<td>FRP161</td>
<td>Fire Management Practices ................................ 1</td>
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<tr>
<td></td>
<td>FRP162</td>
<td>Managing Fire Personnel .................................. 1</td>
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<td>FRP163</td>
<td>Planning Fire Protection .................................. 1</td>
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<td>FRP164</td>
<td>Fire Department Budgets .................................. 1</td>
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<td>FRP165</td>
<td>Public Relations, Public Information, and Public Education .......... 1</td>
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<td>FRP166</td>
<td>Firefighter’s Law ........................................... 1</td>
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<td>FRP170</td>
<td>Fire Fighting Tactics and Strategies .................. 3</td>
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<td>FRP174</td>
<td>Fire Investigation .......................................... 4</td>
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<td>Major Emergency Strategy and Tactics .................. 3</td>
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<td>FRP286</td>
<td>Advanced Detection and Protection Systems .......... 3</td>
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<td>HE262</td>
<td>Cardiopulmonary Resuscitation Instruction ............ 2</td>
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Foreign Languages
For discipline outcomes, see General Education Outcomes—Arts and Letters on page 54.

Chemeketa offers a number of foreign language courses. Some of these courses can be used to fulfill the Arts and Letters requirements of the Associate of Arts Oregon Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Chemeketa offers instruction in first-year (introductory) and second-year (intermediate) American Sign Language, French, Japanese, Russian and Spanish and first-year (introductory) Chinese. Classroom instruction focuses on oral/visual communication as well as reading and writing.

Oregon’s state universities offering Bachelor of Arts degrees in Foreign Languages are Oregon State University, Portland State University, Southern Oregon University, University of Oregon, and Western Oregon University. OSU offers degrees in French, German, and Spanish; PSU offers degrees in Chinese, French, German, Japanese, Russian, and Spanish; U of O offers degrees in Chinese, French, German, Greek, Italian, Japanese, Latin, Russian, and Spanish; SOU offers a Bachelor of Arts in Language and Culture with options in French, German, Spanish (see SOU catalog); and WOU offers a degree in American Sign Language and Spanish. EOU offers degrees in Liberal Studies with a concentration in French, German, or Spanish.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa’s Advising and First Year Programs staff or a Chemeketa Foreign Languages faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

General Science
For discipline outcomes, see General Education Outcomes—Science or Computer Science on page 55.

Chemeketa offers a few general science courses. Some of these courses can be used to fulfill the Science requirements of the Associate of Arts Oregon Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Oregon’s state universities offering Bachelor of Arts and/or Bachelor of Science degrees in General Science are Oregon State University and University of Oregon.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa’s Advising and First Year Programs staff or a Chemeketa Physical science faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Geology
For discipline outcomes, see General Education Outcomes—Science or Computer Science on page 55.

Chemeketa offers a few geology courses. Some of these courses can be used to fulfill the Science requirements of the Associate of Arts Oregon Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Oregon’s state universities offering Bachelor of Arts and/or Bachelor of Science degrees in Geology are Oregon State University, Portland State University, Southern Oregon University, University of Oregon, and Western Oregon University.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa’s Advising and First Year Programs staff or a Chemeketa Geography faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

General Studies
For discipline outcomes, see General Education Outcomes beginning on page 54.

Most of Oregon’s state universities offer Bachelor of Arts and/or Bachelor of Science degrees in General Studies. The major is listed as General Studies at Portland State University, Liberal Studies at Eastern Oregon University and Oregon State University, Humanities at University of Oregon, and Interdisciplinary Studies at Southern Oregon University and Western Oregon University.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa’s Advising and First Year Programs. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Geography
For discipline outcomes, see General Education Outcomes—Social Science on page 55.

Chemeketa offers a number of geography courses. Some of these courses can be used to fulfill the Social Science requirements of the Associate of Arts Oregon Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Oregon’s state universities offering Bachelor of Arts and/or Bachelor of Science degrees in Geography are Oregon State University, Portland State University, Southern Oregon University, University of Oregon, and Western Oregon University.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa’s Advising and First Year Programs staff or a Chemeketa Geography faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.
As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa’s Advising and First Year Programs staff or a Chemeketa Geology faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

**Graphic Design**
See Visual Communications Program

**Health, Health Education**
For discipline outcomes, see General Education Outcomes beginning on page 54.

Chemeketa offers a number of health courses. Some of these courses can be used to fulfill the requirements of the Associate of Arts Oregon Transfer (AAOT) degree, and the Associate of Science Oregon Transfer (ASOT) degrees in Business and in Computer Science. See pages 58, 60, and 62 for a complete listing.

Students wishing to explore careers in Health or Physical Education are encouraged to complete a two-year AAOT degree from Chemeketa with a Health Promotion emphasis and to continue their studies at a public or private four-year institution. Possible areas of interest include Athletic Training, Coaching, Exercise Science, Fitness Management, Public Health, Nutrition, Pre-Therapy, Sports Management, and Teaching.

Oregon’s state universities offering Bachelor of Arts and/or Bachelor of Science degrees in Health, Health Education and/or Public Health Education are Eastern Oregon University, Oregon State University, Portland State University, Southern Oregon University, and Western Oregon University. EOU’s degree is in Physical Education and Health. OSU offers options in Health Management and Policy, Health Promotion, and Health Behavior; PSU offers Health Education; SOU offers a Health and Physical Education degree; WOU offers a degree in Community Health, and Health Education with a non-teaching and a teaching option.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa’s Advising and First Year Programs staff or Health and Human Performance program staff at 503.399.5082 for transfer course recommendations. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Those students planning to teach health will need to complete a fifth year of post-baccalaureate work to meet teacher certification at all state-system colleges except WOU.

### Health Information Management Program
[go.chemeketa.edu/healthservices](go.chemeketa.edu/healthservices)

#### Health Information Management Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $1,985; class fees, $335; universal fee, $2,232; and equipment and supplies, $100; criminal background check, $50. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs. Students are responsible for costs related to travel to practicum locations.

As a graduate of the Health Information Management two-year degree, you will be prepared for a variety of middle-management jobs in the health care field. You may be employed by hospitals, state agencies, medical clinics, or other health care organizations.

The combination of career and technical education courses and transfer courses will give you a wide variety of options, including bachelor and master’s degrees in health information management.

For admission to the program, an application is required. This is a separate step from the testing and assessment process required by the college. Applications are available in Advising and First Year Programs, at the Enrollment Center on the Salem Campus, in program offices, and on the web at chemeketa.edu.

Additionally, you must be able to pass a criminal background check. Health care institutions may also require another criminal background check, urine drug screen, proof of immunizations, and current CPR certification before a student can be placed at the facility for externship, practicum, or cooperative work experience.

**Program Outcomes**
Students completing the degree should be able to:

- Use health records to abstract, collect, and analyze data for use by a range of health care professions and health-related organizations.
- Apply current technology and basic assessment tools to manage and maintain health information.
- Use knowledge of structure, function, and terminology related to the human body to communicate in health care systems.
- Apply the principles of professional ethics and diversity to medical-legal matters, including confidentiality, medical records management, release of information, patient rights, workplace rights, informed consents, and electronic information in the health care facility.
- Use interpersonal and communication skills that build and maintain cooperative working relationships in the health care profession.
- Use the specific skills associated with their scope of practice such as medical coding, medical reimbursement, health records management, or health information management.
• Integrate and apply theory and skill in a health care organization through a work site experience.
• Apply advanced theoretical concepts of management to the health service organization.
• Analyze and interpret health care data and statistics for decision making in health care organizations.
• Identify the characteristics of major health care systems to manage the health care environment.
• Apply skills in leadership, motivation, and team building in health care settings.

If you have questions about the requirements, contact the Health Sciences Department at 503.399.5058 or email healthsciences@chemeketa.edu.

You may earn an associate of applied science degree by successfully completing the required 93 credit hours with a grade of “C” or better in all courses. If you have completed or currently enrolled in a health occupations program and wish to apply credits toward the Health Information Management degree program, contact the advisor in this program.

The Basic Health Care certificate readies you for entry-level positions in the health care industry and provides a solid foundation of skills and knowledge that will enable you to explore further education, training, and employment in the allied health care fields.

Program Outcomes

Students completing the Basic Health Care certificate should be able to:
• Comply with preventative health and safety requirements.
• Apply an understanding of health care laws and ethics that are required in health care practice.
• Explain the characteristics of health care professionals, including professional behavior, teamwork, leadership skills, and customer service.
• Understand and apply appropriate medical terminology.
• Describe the anatomy and physiology of the various systems of the body.
• Demonstrate basic computer skills.
• Apply the principles and methods of health promotion and wellness.

You may earn a certificate of completion by successfully completing the required 18 credit hours with a grade of “C” or better in all courses.

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI121</td>
<td>Introduction to Anatomy and Physiology 1</td>
<td>4</td>
</tr>
<tr>
<td>BI122</td>
<td>Introduction to Anatomy and Physiology 2</td>
<td>3</td>
</tr>
<tr>
<td>CA100</td>
<td>Beginning Computing</td>
<td>3</td>
</tr>
<tr>
<td>CA118B</td>
<td>Excel Basics</td>
<td>3</td>
</tr>
<tr>
<td>CA208</td>
<td>Workplace Presentations Using PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>HM120</td>
<td>Medical Terminology 1</td>
<td>3</td>
</tr>
<tr>
<td>HM121</td>
<td>Medical Terminology 2</td>
<td>4</td>
</tr>
<tr>
<td>MTH070</td>
<td>Elementary Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>HM112</td>
<td>Health Record Content</td>
<td>4</td>
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<tr>
<td>HM123</td>
<td>Essentials of Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>HM210</td>
<td>Introduction to Health Services</td>
<td>3</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+ (or higher)</td>
<td>4</td>
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<tr>
<td>HM101</td>
<td>Medical Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>HM115</td>
<td>ICD-10-CM Coding/Diagnosis</td>
<td>4</td>
</tr>
<tr>
<td>HM161</td>
<td>Information Governance</td>
<td>3</td>
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<tr>
<td>HM217</td>
<td>Healthcare Statistics</td>
<td>3</td>
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<tr>
<td>HM250</td>
<td>Leadership and Management</td>
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<tr>
<td>HM114</td>
<td>CPT Coding and Reimbursement</td>
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</tr>
<tr>
<td>HM150</td>
<td>Professional Development and Communication for Health Information Management</td>
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<tr>
<td>HM251</td>
<td>Quality and Process Improvement</td>
<td>3</td>
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<tr>
<td>PHM230</td>
<td>Pharmaceutical Drug Classifications</td>
<td>3</td>
</tr>
<tr>
<td>HM113</td>
<td>Healthcare Financing, Insurance, and Reimbursement</td>
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<td>HM230</td>
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<td>HM231</td>
<td>Health Information Management Seminar</td>
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<tr>
<td>HM252</td>
<td>Data Analytics</td>
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</table>
Hemodialysis Technician Program

go.chemeketa.edu/hemodialysis

The Hemodialysis Technician program prepares graduates to provide hemodialysis treatments for clients with end-stage renal failure under the supervision of a registered nurse or physician in outpatient dialysis centers or a hospital outpatient unit. Students participate in theoretical and clinical learning environments to prepare for the duties and responsibilities of a clinical hemodialysis technician. Practicum in a hemodialysis facility provide students an opportunity to develop and practice the skills of the hemodialysis technician and participate as a member of the dialysis team under the supervision of faculty and professional dialysis mentors. The curriculum is driven by federal and state regulations specific to the provisions of hemodialysis and includes all theoretical and practical instruction to prepare graduates to sit for the national certification exam leading to a Certified Clinical Hemodialysis Technician (CCHT) designation.

This occupation requires medium physical activity, lifting and handling objects weighing 10 to 50 pounds. Technicians often stand for long periods.

Program Outcomes

Students completing the Hemodialysis Technician certificate should be able to:

- Provide safe and effective hemodialysis treatments for clients in outpatient hemodialysis facilities.
- Perform hemodialysis procedures in a professional manner, adhering to federal and state standards required to maintain the safety of patients.
- Have received Healthcare Provider CPR certification.
- Be prepared to sit for national certification as a Certified Clinical Hemodialysis Technician (CCHT).

This is a three-term program with special admission requirements and enrollment limits.

Prior to applying to this program, it is recommended that Term 1 courses be completed with a grade of C or better. Before beginning the program, you must pass both a criminal background check and drug test (pursuant to OAR 855-010-0045).

If you have questions about the requirements, call the Yamhill Valley Campus in McMinnville, 503.472.9482. Failure to be assessed may delay your entry into program classes.

Hemodialysis Technician Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $750; class fees, supplies, criminal background check, drug testing, CPR, scrubs, $1,252; immunizations, $250; universal fee, $894. Students are responsible for costs related to travel to practicum locations. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn a certificate of completion by successfully completing the required 41 credit hours with a grade of “C” or better in all courses:

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<th>Credit Hours</th>
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<tr>
<td>HM120</td>
<td>Medical Terminology 1</td>
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</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY101</td>
<td>Psychology of Human Relations (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR090</td>
<td>Fundamentals of Writing+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Term 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEM101</td>
<td>Hemodialysis Technology 1</td>
<td>13</td>
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<tr>
<td>Term 3</td>
<td></td>
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</tr>
<tr>
<td>HEM102</td>
<td>Hemodialysis Technology 2</td>
<td>13</td>
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</table>

History

For discipline outcomes, see General Education Outcomes—Social Science on page 55.

Chemeketa offers a number of history courses. All of these courses can be used to fulfill the Social Science requirements of the Associate of Arts Oregon Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Oregon’s state universities offering Bachelor of Arts and/or Bachelor of Science degrees in History are Eastern Oregon University, Oregon State University, Portland State University, Southern Oregon University, University of Oregon, and Western Oregon University.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa’s Advising and First Year Programs staff or a Chemeketa History faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Horticulture Program

go.chemeketa.edu/horticulture

The Horticulture program offers career training and education for those entering the career field and for those already employed. The program curriculum includes a wide variety of topics ranging from plant propagation to sustainable landscape design. Chemeketa has a well-equipped greenhouse in which students acquire hands-on training in the basic knowledge and technical skills required for successful employment in a variety of positions in the horticulture industry.

Our Cooperative Work Experience program allows students to earn college credit for work relating to the horticulture program. With the approval of the program chair, students can enroll in HOR280B-L Cooperative Work Experience and earn college credit hours. For more information, look under Cooperative Work Experience in the catalog index.
Horticulture Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $3,125; class fees, $1,031; universal fee, $2,256; differential fee, $940. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Horticulture program prepares students for occupations in greenhouse and nursery production, propagation, crop health technicians, landscape technicians, plant sales representatives, and public horticulturists. The program offers a two-year associate of applied science degree.

For more information about the program, contact Joleen Schilling at 503.399.5150.

Program Outcomes

Students completing the Horticulture degree should be able to:

- Perform skills and use equipment necessary to propagate, transplant, fertilize, irrigate, prune, and otherwise regulate growth of plants.
- Recognize, name, and understand management requirements for plants commonly grown in Oregon and their associated pests.
- Demonstrate knowledge of government regulations, workplace safety, water regulations, pesticide safety, and crop sanitation requirements.
- Evaluate production practices in terms of currently understood principles of sustainability.

If you have questions about the program requirements, contact the Agricultural Sciences department at 503.399.5139 or email sherrrie.magarrell@chemeketa.edu.

You may earn an associate of applied science degree by successfully completing the required 94 credit hours with a grade of "C" or better in all courses:

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<tr>
<td><strong>Term 1</strong></td>
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<tr>
<td>CIS101</td>
<td>Computing Concepts (or higher)</td>
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<tr>
<td>HOR111</td>
<td>Introduction to Horticulture</td>
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</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+ (or higher)</td>
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<tr>
<td>SOIL205</td>
<td>Soil Science</td>
<td>4</td>
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<tr>
<td><strong>Term 2</strong></td>
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<td>HOR211</td>
<td>Plant Propagation</td>
<td>4</td>
</tr>
<tr>
<td>MTH070</td>
<td>Elementary Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY104</td>
<td>Workplace Psychology+ (or higher)</td>
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</tr>
<tr>
<td>SOIL206</td>
<td>Plant Nutrition</td>
<td>2</td>
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<tr>
<td><strong>Term 3</strong></td>
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<tr>
<td>BI153</td>
<td>Fundamentals of Plant Biology</td>
<td>4</td>
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<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking (or higher)</td>
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<tr>
<td>COMM115</td>
<td>Introduction to Intercultural Communication (or higher)</td>
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<tr>
<td>WR227</td>
<td>Technical Writing</td>
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<td>HOR237</td>
<td>Integrated Pest Management: Insects and Diseases</td>
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<td><strong>Term 4</strong></td>
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<td>HOR203</td>
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<td>HOR226</td>
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<td>HOR237</td>
<td>Integrated Pest Management: Insects and Diseases</td>
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<td>HOR239</td>
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<td>HOR112</td>
<td>Pesticides and Safety</td>
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<td>HOR204</td>
<td>Winter Practicum</td>
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<tr>
<td>HOR225</td>
<td>Greenhouse Production and Management</td>
<td>4</td>
</tr>
<tr>
<td>HOR227</td>
<td>Winter Plant Identification</td>
<td>4</td>
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<tr>
<td>HOR236</td>
<td>Integrated Pest Management: Weeds</td>
<td>3</td>
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<tr>
<td>HOR239</td>
<td>Horticulture elective*</td>
<td>4</td>
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<td><strong>Term 6</strong></td>
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<tr>
<td>HOR205</td>
<td>Spring Practicum</td>
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<tr>
<td>HOR221</td>
<td>Nursery Production and Management</td>
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<td>HOR228</td>
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<td>HOR236</td>
<td>Integrated Pest Management: Weeds</td>
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<td><strong>Term 7</strong></td>
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<td></td>
</tr>
<tr>
<td>HOR280F</td>
<td>Cooperative Work Experience</td>
<td>6</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

*Horticulture electives (select 14 credit hours):

BI131 Environmental Science 1 .............................. 4
BI132 Environmental Science 2 .............................. 4
BI133 Environmental Science 3 .............................. 4
CH121 College Chemistry 1 (or higher) ..................... 5
HOR210 Bees and Other Pollinators ............................ 2
HOR215 Nursery and Greenhouse Equipment and Safety .. 3
HOR201 Growing Vegetables in the Willamette Valley .... 4
HOR212 Advanced Plant Propagation .......................... 2
HOR225 Winter Practicum ............................... 2
HOR226 Fall Plant Identification .............................. 4
HOR227 Winter Plant Identification ........................... 4
HOR228 Spring Plant Identification ........................... 4
HOR236 Integrated Pest Management: Weeds 3 |
HOR251 Growing Fruit in the Willamette Valley .......... 3
HOR255 Identification of Herbaceous Plants 1 ............. 3
HOR256 Identification of Herbaceous Plants 2 ............. 2
HOR257 Horticultural Marketing .............................. 3
HOR273 Urban and Community Forestry ..................... 2
HOR276 Organic Gardening ................................. 3
HOR277 Composting ........................................... 2
HOR286 Organic Gardening Summer Practices ............. 2
SPN101 First Year Spanish Term 1 ............................ 4
SPN102 First Year Spanish Term 2 ............................ 4
SPN103 First Year Spanish Term 3 ............................ 4

Hospitality and Tourism Management Program

go.chemeketa.edu/hospitality

Program courses are delivered entirely online.

The Hospitality and Tourism Management curriculum focuses on the management aspects of Oregon’s fastest-growing industry: hospitality and tourism. The Hospitality and Tourism Management associate of applied science degree, in combination with one or more specialized areas of study, prepares students for a wide variety of career opportunities in key industry sectors. The Event Management certificate offers career opportunities in meeting and event planning. The Food
and Beverage Management certificate prepares students to work in food and beverage supervision in a variety of venues. The Lodging Management certificate prep students to work in the area of lodging supervision in facilities ranging from small Bed and Breakfasts (B&Bs) to large resorts, while the Travel and Tourism certificate focuses on travel-related careers. The one-year Hospitality and Tourism Management certificate opens the door to careers in hospitality and tourism management.

Courses focus on the knowledge, skills, and abilities needed to formulate and implement effective business and marketing strategies in a hospitality and tourism context. Students develop the skills required to lead stakeholder groups in hospitality and tourism business entities, including leadership and communication, finance and accounting, sales and marketing, human resource management, and operational delivery of competitive guest experiences for diverse guest types. In addition, students learn the administrative skills required to direct and manage other destination management professionals responsible for researching, developing, and promoting the tourism of their locality, region, or destination resort.

As a student in the program, you are expected to work with a department advisor in planning your class schedule leading toward fulfillment of all program requirements. If you plan to earn a bachelor's degree, you will also be advised on opportunities to continue your education through other universities.

For info on this Program, contact Eric Aebi, Program Chair 503.589.7994, or eric.aebi@chemeketa.edu

**Program Outcomes**

**Students completing the Event Management certificate should be able to:**
- Organize and promote a special event or meeting utilizing appropriate industry techniques.
- Establish a service-profit link to deliver competitive guest experiences in diverse cultural groups.
- Develop marketing strategies specific to hospitality and tourism.

**Students completing the Food and Beverage certificate should be able to:**
- Establish a service-profit link to deliver competitive guest experiences in diverse cultural groups.
- Develop marketing strategies specific to hospitality and tourism.
- Use industry-specific cost control terms and techniques to improve profitability.

**Students completing the Lodging certificate should be able to:**
- Demonstrate the ability to anticipate market trends within industry-specific distribution processes and technology platforms.
- Develop marketing strategies specific to hospitality and tourism.
- Manage lodging operations throughout the guest cycle to maximize revenue.

**Students completing the Travel and Tourism Management certificate should be able to:**
- Organize and promote a special event or meeting utilizing appropriate industry techniques.
- Demonstrate the ability to anticipate market trends within industry-specific distribution processes and technology platforms.
- Develop marketing strategies specific to hospitality and tourism.

**Students completing the Hospitality and Tourism certificate should be able to:**
- Organize and promote a special event or meeting utilizing appropriate industry techniques.
- Establish a service-profit link to deliver competitive guest experiences in diverse cultural groups.
- Demonstrate the ability to anticipate market trends within industry-specific distribution processes and technology platforms.

**Students completing the Hospitality and Tourism degree should be able to:**
- Organize and promote a special event or meeting utilizing appropriate industry techniques.
- Discuss technology platforms within industry-specific distribution and promotion processes in order to anticipate market trends.
- Develop marketing strategies specific to Hospitality and Tourism.
- Manage lodging operations throughout the guest cycle to maximize revenues.
- Use industry-specific cost control terms and techniques to improve profitability.
- Implement operational strategies that optimize Balanced Scorecard results.

If you have questions about the requirements, contact Advising and First Year Programs at 503.399.5120 or Hospitality and Tourism Management program staff at 503.472.9482, or email kathryn.ellis@chemeketa.edu.

**Event Management Certificate of Completion**

In addition to tuition, estimated costs for students who complete the courses listed below are books, $521; and universal fee, $864. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Event Management certificate prepares students for direct employment in meeting and event planning for large hotels, convention centers, local attractions, private catering or event management companies, or private corporations.

Courses focus on the separate but related business, operational, and sales aspects of meeting and event planning for conventions, special events such as weddings or parties, and corporate meetings. Students develop the strategic project management and marketing and sales skills necessary for success in any of these related industry segments. Additionally, students will develop critical ancillary knowledge in food and beverage planning, catering, and banquet operations as they apply to the overall hospitality industry and to the industry segments indicated above. Students will also
gain knowledge and applied skill in destination marketing principles and strategies.

A certificate of completion is awarded upon successful completion of the required 36 credit hours with a grade of “C” or better in all Hospitality and Tourism Management (HTM) courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>HTM100</td>
<td>Hospitality Industry</td>
<td>4</td>
</tr>
<tr>
<td>HTM104</td>
<td>Tourism and Travel Industry</td>
<td>4</td>
</tr>
<tr>
<td>HTM125</td>
<td>Special Event Planning</td>
<td>4</td>
</tr>
<tr>
<td>HTM127</td>
<td>Selling in Hospitality and Tourism Management</td>
<td>4</td>
</tr>
<tr>
<td>HTM131</td>
<td>Customer Service Management</td>
<td>4</td>
</tr>
<tr>
<td>HTM138</td>
<td>Foods and Beverages: Gastronomy</td>
<td>4</td>
</tr>
<tr>
<td>HTM203</td>
<td>Service Marketing</td>
<td>4</td>
</tr>
<tr>
<td>HTM224</td>
<td>Catering and Banquets</td>
<td>4</td>
</tr>
<tr>
<td>HTM226</td>
<td>Meetings and Conventions</td>
<td>4</td>
</tr>
</tbody>
</table>

**Food and Beverage Management Certificate of Completion**

In addition to tuition, estimated costs for students who complete the courses listed below are books, $497; universal fee, $864. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Food and Beverage Management certificate prepares students for direct employment in food and beverage supervision in the following fields: food and beverage certificate in hotels, resorts, and convention/exposition centers; catering and event companies; free-standing bars, restaurants, and food trucks; attraction-based concessions such as museums, gardens, and zoos; tasting rooms in wineries, micro-breweries, and craft distilleries; and local attractions or institutions with food service such as theme parks, museums, hospitals, schools, and correctional facilities.

Courses focus on the operational aspects of food and beverage management: food and beverage pairing, inventory management, cost control, menu design, customer service management, and layout and set-up of dining service areas. Students develop the skills necessary for supervisory success in any of these related industry segments. Additionally, students will develop critical ancillary knowledge in food and beverage planning, catering, and banquet operations as they apply to the overall hospitality industry and to the industry segments indicated above. Students will also gain knowledge and applied skill in concept design and marketing strategies.

A certificate of completion is awarded upon successful completion of the required 36 credit hours with a grade of “C” or better in all Hospitality and Tourism Management (HTM) courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>HTM100</td>
<td>Hospitality Industry</td>
<td>4</td>
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<tr>
<td>HTM104</td>
<td>Tourism and Travel Industry</td>
<td>4</td>
</tr>
<tr>
<td>HTM105</td>
<td>Restaurant Operations</td>
<td>4</td>
</tr>
<tr>
<td>HTM107</td>
<td>Hospitality Cost Control</td>
<td>4</td>
</tr>
<tr>
<td>HTM125</td>
<td>Special Event Planning</td>
<td>4</td>
</tr>
<tr>
<td>HTM131</td>
<td>Customer Service Management</td>
<td>4</td>
</tr>
<tr>
<td>HTM138</td>
<td>Foods and Beverages: Gastronomy</td>
<td>4</td>
</tr>
<tr>
<td>HTM203</td>
<td>Service Marketing</td>
<td>4</td>
</tr>
<tr>
<td>HTM224</td>
<td>Catering and Banquets</td>
<td>4</td>
</tr>
</tbody>
</table>

**Lodging Management Certificate of Completion**

In addition to tuition, estimated costs for students who complete the courses listed below are books, $497; universal fee, $864. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Lodging Management certificate prepares students for direct employment in lodging supervision in the following businesses: hotels, motels, resorts, inns, and Bed and Breakfasts (B&Bs).

Courses focus on the history and current landscape of the hospitality and tourism industry, market segmentation of lodging guests, supervising guest service employees, lodging guest accounting and record-keeping practices, industry-specific web technologies used to attract and engage potential customers, and meeting and event services provided in lodging establishments.

A certificate of completion is awarded upon successful completion of the required 36 credit hours with a grade of “C” or better in all Hospitality and Tourism Management (HTM) courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTM100</td>
<td>Hospitality Industry</td>
<td>4</td>
</tr>
<tr>
<td>HTM104</td>
<td>Tourism and Travel Industry</td>
<td>4</td>
</tr>
<tr>
<td>HTM125</td>
<td>Special Event Planning</td>
<td>4</td>
</tr>
<tr>
<td>HTM127</td>
<td>Selling in Hospitality and Tourism Management</td>
<td>4</td>
</tr>
<tr>
<td>HTM131</td>
<td>Customer Service Management</td>
<td>4</td>
</tr>
<tr>
<td>HTM143</td>
<td>Computer Reservation Systems</td>
<td>4</td>
</tr>
<tr>
<td>HTM203</td>
<td>Service Marketing</td>
<td>4</td>
</tr>
<tr>
<td>HTM209</td>
<td>Lodging Operations</td>
<td>4</td>
</tr>
<tr>
<td>HTM226</td>
<td>Meetings and Conventions</td>
<td>4</td>
</tr>
</tbody>
</table>

**Tourism and Travel Management Certificate of Completion**

In addition to tuition, estimated costs for students who complete the courses listed below are books, $497; universal fee, $864. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Travel and Tourism Management certificate focuses on travel-related careers in airline, tour operations, resort and hotel front-desk, and travel agency employment. The certificate prepares students for direct entry into the workforce and allows them to continue into the Hospitality and Tourism degree program.

A certificate of completion is awarded upon successful completion of the required 36 credit hours with a grade of “C” or better in all Hospitality and Tourism Management (HTM) courses.
In addition to tuition, estimated costs for students who complete the courses listed below are books, $476; universal fee, $1,152. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

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In addition to tuition, estimated costs for students who complete the courses listed below are books, $476; universal fee, $1,152. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

Hospitality and Tourism Management Certificate of Completion

A certificate of completion is awarded upon successful completion of the required 48 credit hours with a grade of “C” or better in all Hospitality and Tourism Management (HTM) courses.

General Education requirements (16 credit hours)

Course | Title | Credit Hours
--- | --- | ---
COMM218 | Interpersonal Communication (or higher) | 4
MTH060 | Introductory Algebra+ (or higher) | 4
PSY104 | Workplace Psychology+ (or higher) | 4
WR121 | Academic Composition+ (or higher) | 4

Hospitality and Tourism Management certificate core requirements (32 credit hours)

Course | Title | Credit Hours
--- | --- | ---
HTM100 | Hospitality Industry | 4
HTM104 | Tourism and Travel Industry | 4
HTM105 | Restaurant Operations | 4
HTM125 | Special Event Planning | 4
HTM127 | Selling in Hospitality and Tourism Management | 4
HTM131 | Customer Service Management | 4
HTM138 | Foods and Beverages: Gastronomy | 4
HTM143 | Computer Reservation Systems | 4

Hospitality and Tourism Management Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $796; universal fee, $1,152. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing these required 92 credit hours with a grade of “C” or better in all Hospitality and Tourism Management (HTM) courses.

General Education requirements (20 credit hours)

Course | Title | Credit Hours
--- | --- | ---
COMM218 | Interpersonal Communication (or higher) | 4
MTH060 | Introductory Algebra+ (or higher) | 4
PSY104 | Workplace Psychology+ (or higher) | 4
WR121 | Academic Composition+ (or higher) | 4
WR227 | Technical Writing | 4

Hospitality and Tourism Management degree core requirements (72 credit hours)

Course | Title | Credit Hours
--- | --- | ---
BA101 | Introduction to Business | 4
BA206 | Business Management Principles | 4
BA226 | Business Law 1 | 4
HTM100 | Hospitality Industry | 4
HTM104 | Tourism and Travel Industry | 4
HTM105 | Restaurant Operations | 4
HTM107 | Hospitality Cost Control | 4
HTM114 | Travel Destination Geography | 4
HTM125 | Special Event Planning | 4
HTM127 | Selling in Hospitality and Tourism Management | 4
HTM131 | Customer Service Management | 4
HTM138 | Foods and Beverages: Gastronomy | 4
HTM143 | Computer Reservation Systems | 4
HTM203 | Service Marketing | 4
HTM209 | Lodging Operations | 4
HTM224 | Catering and Banquets | 4
HTM226 | Meetings and Conventions | 4
HTM290 | Hospitality and Tourism Management | 4

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

Human Services Program

go.chemeketa.edu/humanservices

The Human Services Program (HSP) offers training for entry-level positions in human service agencies. The Human Services degrees and certificates combine academic coursework. Practicum must equal 25 credits of supervised fieldwork at two different sites, each of which is at least two terms long. Students select one of two degrees: Addiction Studies or Social Services.

Post baccalaureate students are eligible to complete the Addiction Counselor Certification Preparation (ACCP) program and earn a one-year certificate. It is recommended that you contact Christina Steiger (Christina.steiger@chemeketa.edu) for advising.

The HSP has special admission requirements and enrollment limits, and there is a deadline for applications. Students in the Addiction Studies program that are recovering from chemical dependency are encouraged to enter the program but must have a minimum of two years of continuous sobriety in an unrestricted environment in order to commence practicum. Social Services practicum does not have this limitation. Criminal history limitations apply to students in this program as well.

By enrolling in PLP121, Introduction to Prior Learning Portfolio, students may be able to earn credits for prior learning acquired through jobs, non-credit classes, community or
volunteer service, or individual study. For more information, call 503.399.5114.

Program Outcomes
Students completing the AAS degrees and the ACCP certificate should be able to:

- Describe the nature of human systems: individual, group, organization, community, society, and their major interactions.
- Describe the conditions that promote or limit optimal functioning in the major human systems.
- Identify and select interventions that promote client growth and goal attainment.
- Plan, implement, and evaluate interventions.
- Select interventions that are congruent with the values of one's self, clients, the employing organization, and the human services profession.
- Utilize process skills to plan and implement services.
- Adapt assessment skills and interventions to a variety of settings.
- Comprehend and recognize the worth and uniqueness of the individual, including race, culture, ethnicity, gender, religion, learning style, abilities, sexual orientation, age, social class, and other expressions of diversity.

In addition to the outcomes above, students completing the Addiction Studies degree and the Addiction Counselor Certification Preparation certificate should be able to:

- Describe, identify, assess, and treat substance use disorders.

Addiction Counselor Certification Preparation Certificate of Completion
In addition to tuition, estimated costs for students who complete the courses listed below are books, $2,300; class fees, $63; universal fee, $1,440; CADC candidate registry, $50; and equipment and supplies, $231; measles vaccine: cost varies per provider. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

This certificate program is designed for individuals with a baccalaureate or master's degree seeking the necessary coursework and practical experience to enable them to compete for employment in the field of substance use disorder treatment. This certificate prepares students to take the Oregon Level I Certified Alcohol and Drug Counselors (CADC) exam.

You may earn a certificate of completion by successfully completing the required 60 credit hours with a grade of “C” or better in all Human Services courses and a minimum of 15 credits of practicum. Students interested in this program must attend the orientation or meet personally with Christina Steiger (christina.steiger@chemeketa.edu) advisor to the program, prior to beginning coursework.

Check the course descriptions in the back of this catalog for details.

<table>
<thead>
<tr>
<th>Course Term</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>HS101</td>
<td>Addiction Pharmacology and Physiology .......... 4</td>
</tr>
<tr>
<td></td>
<td>HS103</td>
<td>Ethics for Human Services ............................................. 3</td>
</tr>
<tr>
<td></td>
<td>HS155</td>
<td>Fundamentals of Interviewing ............................ 3</td>
</tr>
<tr>
<td>Term 2</td>
<td>HS140</td>
<td>Addressing Client Violence ..................................... 1</td>
</tr>
<tr>
<td></td>
<td>HS211</td>
<td>Wellness Counseling .............................................. 4</td>
</tr>
<tr>
<td></td>
<td>HS214</td>
<td>Advanced Interviewing and Counseling Skills ....... 3</td>
</tr>
<tr>
<td></td>
<td>HS219</td>
<td>Client Records, Case Management, and Care ....... 3</td>
</tr>
<tr>
<td></td>
<td>HS288A</td>
<td>Practicum: Human Services-Addiction Studies . 4–8</td>
</tr>
<tr>
<td>Term 3</td>
<td>HS156</td>
<td>Counseling Theories ............................................ 3</td>
</tr>
<tr>
<td></td>
<td>HS158</td>
<td>Trauma Informed Care ............................................. 3</td>
</tr>
<tr>
<td></td>
<td>HS216</td>
<td>Assessment and TX Planning ................................... 3</td>
</tr>
<tr>
<td></td>
<td>HS218A</td>
<td>Group Processes A ............................................... 1</td>
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<tr>
<td></td>
<td>HS284A</td>
<td>Group Processes B .............................................. 1</td>
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<tr>
<td></td>
<td>HS288A</td>
<td>Practicum: Human Services-Addiction Studies . 4–8</td>
</tr>
<tr>
<td>Term 4</td>
<td>HS201</td>
<td>Addiction and the Family System .................... 3</td>
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<td></td>
<td>HS217</td>
<td>Group Counseling Skills ....................................... 3</td>
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<tr>
<td></td>
<td>HS218B</td>
<td>Group Processes B ............................................... 1</td>
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<tr>
<td></td>
<td>HS284A</td>
<td>Group Processes C ............................................... 1</td>
</tr>
<tr>
<td></td>
<td>HS288A</td>
<td>Practicum: Human Services-Addiction Studies ... 4–8</td>
</tr>
<tr>
<td>Term 5</td>
<td>HS209</td>
<td>Co-occurring Disorders ....................................... 3</td>
</tr>
<tr>
<td></td>
<td>HS213</td>
<td>Multicultural Issues ............................................. 3</td>
</tr>
<tr>
<td></td>
<td>HS218C</td>
<td>Group Processes C ............................................... 1</td>
</tr>
<tr>
<td></td>
<td>HS284A</td>
<td>Group Processes C ............................................... 1</td>
</tr>
<tr>
<td></td>
<td>HS288A</td>
<td>Practicum: Human Service-Addiction Studies ... 4–8</td>
</tr>
</tbody>
</table>

Addiction Studies Associate of Applied Science Degree
In addition to tuition, estimated costs for students who complete the courses listed below are books, $3,510; class fees, $109; universal fee, $2,400; CADC candidate registry, $50; and equipment and supplies, $278; measles vaccine: cost varies per provider. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Addiction Studies degree prepares students to work in public and private agencies treating chemically dependent people and their families. Training sites include both residential and outpatient programs.

The Addiction Studies degree is recognized by the National Association of Alcohol and Drug Abuse Counselors as an educational provider. Most courses may be used for continuing education requirements for many certified and licensed professionals. The curriculum includes courses in alcohol and drug information, family dynamics, case management, and individual and group counseling skills.

An associate of applied science degree is awarded upon successful completion of the required 100 credit hours with a grade of "C" or better in WR121 and all Human Services courses. Twenty-five credits of practicum are required, at least 15 of which must be in a substance use disorder studies placement; 10 credits can be satisfied at a social services placement.
### Social Services Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $3,910; class fees, $109; universal fee, $2,280; and equipment and supplies, $286; measles vaccine: cost varies per provider. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Social Services AAS degree program trains students for employment in social service agencies. These agencies provide services in areas such as crisis counseling, employment, housing, mental health, corrections, and advocacy.

The curriculum includes courses in personal growth, interviewing, counseling, assessment, and case management.

### Course Offerings

#### Term 1
- **HS101**: Addiction Pharmacology and Physiology .......................... 4
- **HS150**: Personal Effectiveness in Human Services .................. 3
- **HS152**: Stress Management ................................................. 1
- **HS158**: Trauma Informed Care ............................................. 3
- **WR121**: Academic Composition .......................................... 4

#### Term 2
- **CIS101**: Computing Concepts ............................................. 3
- **CA100**: Beginning Computing ............................................. 3
- **HS103**: Ethics for Human Services ......................................... 3
- **HS155**: Fundamentals of Interviewing ................................. 3
- **HS170**: Introduction to Practicum ........................................ 4
- **PSY201**: Psychology: Mind and Body+ .................................. 4

#### Term 3
- **HS140**: Addressing Client Violence ...................................... 1
- **HS211**: Wellness Counseling ............................................. 4
- **HS214**: Advanced Interviewing and Counseling Skills ........... 3
- **HS219**: Client Records, Case Management, and Care Coordination ......................................................... 3
- **HS260**: Group Dynamics ..................................................... 3
- **HS284A**: Practicum: Human Services-Addiction Studies ....... 4-8

#### Term 4
- **HS156**: Counseling Theories ............................................... 3
- **HS216**: Assessment and TX Planning ................................... 3
- **HS218A**: Group Processes A ............................................ 1
- **HS284A-HS288A**: Practicum: Human Services-Addiction Studies .. 4-8
- **PSY239**: Abnormal Psychology ........................................... 4

#### Term 5
- **HS201**: Addiction and the Family System ................................ 3
- **HS217**: Group Counseling Skills ........................................... 3
- **HS218B**: Group Processes B ............................................. 1
- **HS284A-HS288A**: Practicum: Human Services-Addiction Studies .. 4-8
- **MTH060**: Introductory Algebra (or higher) ............................ 4

#### Term 6
- **HS209**: Co-occurring Disorders ........................................... 3
- **HS213**: Multicultural Issues .............................................. 3
- **HS218C**: Group Processes C ............................................. 1
- **HS284A-HS288A**: Practicum: Human Services-Addiction Studies .. 4-8

An associate of applied science degree is awarded upon successful completion of the required 95 credit hours with a grade of “C” or better in WR121 and all Human Service courses. Twenty-five credits of practicum are required.

### Interactive Media

See Visual Communications Program

### Journalism

For discipline outcomes, see General Education Outcomes—Speech/Oral Communication or Writing on page 55.

Chemeketa offers journalism and media courses and hosts a student-run media platform that includes both print and web based publication. Some of the journalism courses can be used to fulfill the requirements of the Associate of Arts Oregon.
Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

The University of Oregon offers Bachelor of Arts and Bachelor of Science degrees in Journalism. Southern Oregon University offers Bachelor of Arts and Bachelor of Science degrees in Communication: Journalism, with concentrations in News-Editorial and Photojournalism. Oregon State University also offers a minor in Applied Journalism.

Students planning to transfer for journalism should consult the catalog as well as an advisor at the desired transfer school to determine admission requirements and when to transfer.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa’s Advising and First Year Programs staff or a Chemeketa Journalism faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

### Machining Technology Program

This program offers training in using computer-controllers on CNC machine tools, manual machining tools, and computers as tools in machine tool control inspection (CMM), manufacturing engineering, and mechanical design.

The Basic Manufacturing Technician certificate serves as a pathway to higher level manufacturing-related training in a wide range of certificate and degree programs, and prepares students for entry-level employment in a variety of manufacturing-related settings.

The first year of study emphasizes basic machining skills as they relate to computer-numerical control (CNC), as well as manual machining, basic measuring and inspection, and print reading. Students completing the first year may find employment as entry-level machine tool operators.

Second-year classes build on previously learned knowledge and skills and concentrate on further enhancement of CNC and manual skills in programming and machine tool set-ups. Students use extended time in machining labs to solve increasingly complex “real world” programming and fixturing issues. After successful completion, graduates may find employment in the fields of machining/programming and engineering technology.

For admission to the program, an application is required. This is a separate step from the testing and assessment steps. Applications are available online, from Advising and First Year Programs, Admissions, the Automotive Technology program staff office in Building 4, Room 292, and the Applied Technologies office in Building 20. Enrollment in the Machining Technology program is limited, and there is an early deadline for applications. All applicants must attend the Machining Technology Orientation as a prerequisite for acceptance into the program. We recommend that you contact Chemeketa’s Advising and First Year Programs at 503.589.7875 or the Machining Technology Program Chair at 503.589.7875 for details if you are considering the Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM) degree, or certificates in Basic Manufacturing Technician, CAM Fundamentals, or CNC Operator. To enroll, you must have a high school diploma or GED certificate.

If you are interested in manufacturing, machining, manual operations, or CNC, contact appliedtech@chemeketa.edu.

### Program Outcomes

**Students completing the CAM Fundamentals certificate should be able to:**

- Use effective communication skills as a team member.
- Apply basic and precision industry standard measurement practices.
- Set up and operate Computer Numerical Controlled (CNC) machine tools to produce accurately sized parts.
- Apply cutting speeds and feeds to materials used in machining and manufacturing.

**Students completing Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM) degree should be able to:**

- Produce accurate 2D and 3D drawings using CAD software.
- Use effective communication skills as a team member.
- Program CNC machine tools at the machine control level.
- Perform advanced set-ups and operations using manual and/or Computer Numerical Controlled (CNC) equipment to produce accurately sized parts.
- Create parametric solid models and generate CNC code through CAM software to manufacture parts on CNC machine tools.
- Design and build fixtures and tooling for manufacture production purposes to meet customer specifications.
- Determine optimal production process planning to meet customer requirements.
- Select and optimize available machines and equipment to meet product process requirements.
- Calculate power requirements, select drive and system components, and design criteria for mechanical systems.

If you have questions about the program requirements, please contact program chair Sheldon Schnider at 503.589.7875 (email sheldon.schnider@chemeketa.edu), or the office of the Dean of Applied Technologies at 503.399.5210.

### Computer-Aided Manufacturing (CAM) Fundamentals Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $1,217; class fees, $435; universal fee, $1,056; precision tools and supplies, $2,510. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The CAM Fundamentals certificate offers training in the knowledge and skills used by employees in manufacturing and related occupations. The certificate includes courses in manufacturing materials, interpretation of engineering drawings, measuring practices, bench and layout work, and basic set-up and operation of computer controlled mills and lathes. This certificate may qualify graduates for an entry position in a variety of manufacturing-related jobs.
You may earn a certificate of completion by successfully completing the required 40 credits with a grade of “C” or better in all courses.

Course Title Credit Hours

**Term 1**
CAM100 Blueprint Reading and Sketching............... 2
CAM105 Precision Measurement ............................ 2
CAM130 CNC Machine Setup/Operation ..................... 4
CAM280B Cooperative Work Experience ............... 2
FE205B Resumes and Job Search Correspondence ...... 1
MTH052 Introduction to Algebra and Geometry +(or higher). 3

**Term 2**
CAM115 Geometric Dimensioning/Tolerancing ........ 2
CAM140 Metallurgy for Manufacturing ................. 2
CAM160 Intermediate CNC Mill Operation and Programming ......................... 4
CAM280D Cooperative Work Experience ............... 4
WR088 Introduction to Technical Writing 1+ ........... 3

**Term 3**
CAM150 Cutting Tools and Materials ........................ 3
CAM190 Intermediate CNC Lathe Operation and Programming ......................... 4
CAM280D Cooperative Work Experience ............... 4
PSY104 Workplace Psychology+ ............................ 4

**Computer Numerically Controlled (CNC) Operator Certificate of Completion**

In addition to tuition, estimated costs for students who complete the courses listed below are books, $1,290; class fees, $324; universal fee, $960; precision tools and supplies, $1,000. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

This CNC Operator certificate builds on the training provided in the CAM Fundamentals certificate with an emphasis on the setup and operation of computer-controlled machines. The certificate includes courses in manual programming (“G code”) for both mills and lathes. Graduates of this certificate program may qualify to work as a CNC machine tool operator or in a variety of manufacturing-related jobs.

You may earn a certificate of completion by successfully completing the required 40 credits with a grade of “C” or better in all courses.

**Course Title Credit Hours**

**Term 1**
CAM100 Blueprint Reading and Sketching............... 2
CAM105 Precision Measurement ............................ 2
CAM110 Benchwork and Manual Fundamentals .......... 4
CAM130 CNC Machine Setup/Operation ..................... 4
MTH052 Introduction to Algebra and Geometry ........ 3
or
MTH081 Technical Mathematics 1 ............................. 4
or
MTH111 College Algebra (or higher) .................... 5

**Term 2**
CAM115 Geometric Dimensioning/Tolerancing ........ 2
CAM140 Metallurgy for Manufacturing .................... 2
CAM160 Intermediate CNC Mill Operation and Programming ......................... 4
MTH053 Introduction to Trigonometry and Geometry .... 3

**Term 3**
CAM150 Cutting Tools and Materials ........................ 3
CAM190 Intermediate CNC Lathe Operation and Programming ......................... 4
CAM280D Cooperative Work Experience ............... 4
WR088 Introduction to Technical Writing 1 ............... 3

**Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM) Associate of Applied Science Degree**

In addition to tuition, estimated costs for students who complete the courses listed below are books, $2,156; class fees, $991; universal fee, $2,328; precision tools and supplies, $2,510. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM) program offers training in using computers as tools in engineering, drafting, machine tool control inspection (the CMM), and industrial mechanical design.

The first year of study emphasizes machining skills as they relate to Computer Numerical Control machining. Students completing the first year may find employment as entry-level machine tool operators and CNC programmers.

Second-year classes concentrate on integrating mechanical design and computer-aided manufacturing programming and advanced manual machining skills. Students apply knowledge and skills to solve increasingly complex fixturing and machining problems. After successful completion, graduates may find employment in the fields of machining/manufacturing and engineering technologies. Graduates use computers on the job for drafting, design and programming, and operating CNC machine tools.

You may earn an associate of applied science degree by successfully completing the required 97 credit hours with a grade of “C” or better in all courses.

**Course Title Credit Hours**

**Term 1**
CAM100 Blueprint Reading and Sketching............... 2
CAM105 Precision Measurement ............................ 2
CAM110 Benchwork and Manual Fundamentals .......... 4
CAM130 CNC Machine Setup/Operation ..................... 4
DRF130 CAD 1 .................................................. 3
MTH052 Introduction to Algebra and Geometry + ........ 3
or
MTH081 Technical Mathematics 1+ ...................... 4
or
MTH111 College Algebra+ (or higher) ................... 5
Medical Assisting Program

go.chemeketa.edu/medassistant

This program prepares graduates for a wide range of duties in medical offices and other healthcare settings. Administrative responsibilities will include scheduling and receiving patients, keeping medical records, handling telephone calls and correspondence, and maintaining supplies and equipment.

Medical assistant clinical duties will include assisting with examinations and treatments, obtaining medical histories, sterilizing instruments and equipment, and performing certain diagnostic tests and laboratory procedures to include venipuncture and injections in a health care facility.

The program offers clinical experience as well as theory and laboratory courses. Students in the program must earn grades of “C” or better in all required courses and complete all courses required in the first term to be eligible for the practicum.

Program Outcomes
Students completing the Medical Assisting certificate should be able to:

- Perform basic clinical assessments and minor treatments.
- Accurately record patient history and related information.
- Apply current technology associated with health care systems that are the standard of practice in outpatient clinics, health departments, and medical practices.
- Use specific skills related to the scope of practice for a medical assistant such as injections, phlebotomy, and other diagnostic testing, in order to maintain and upgrade the delivery of health care.
- Comply with the professional ethics policies and procedures related to medical and legal matters, including confidentiality, medical records management, release of information, patient rights, workplace rights, and informal consents in health care facilities.

This is a three-term program with special admission requirements and enrollment limits. Prior to program entry, students must pass a criminal background check and drug test (pursuant to OAR 855-010-0045). Clinical sites may also require this.

If you have questions about the requirements, contact the Yamhill Valley Campus in McMinnville, 503.584.7544.
Medical Assisting Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $500; class fees, supplies, criminal background check, drug testing, CPR certification, scrubs, $1,350; universal fee, $984; immunizations, $250. Students are responsible for costs related to travel to practicum locations. Contact the Financial Aid Office at 503.472.9482 to find out if you qualify for help with these costs.

You may earn a certificate of completion by successfully completing the required 41 credit hours:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>(Must be completed prior to applying to program)</td>
<td></td>
</tr>
<tr>
<td>HM120</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY104</td>
<td>Workplace Psychology</td>
<td>4</td>
</tr>
<tr>
<td>WR090</td>
<td>Fundamentals of Writing (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Term 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MED124</td>
<td>Medical Assisting, Basic Procedures</td>
<td>4</td>
</tr>
<tr>
<td>MED125</td>
<td>Medical Assisting, Advanced Procedures</td>
<td>5</td>
</tr>
<tr>
<td>MED130</td>
<td>Medical Assisting Practicum</td>
<td>5</td>
</tr>
<tr>
<td>Term 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MED131</td>
<td>Medical Assisting Seminar</td>
<td>1</td>
</tr>
<tr>
<td>MED132</td>
<td>Medical Assisting Clinical Practice</td>
<td>11</td>
</tr>
</tbody>
</table>

Music

For discipline outcomes, see General Education Outcomes—Arts and Letters on page 54.

go.chemeketa.edu/music

Chmemeka's music curriculum offers a comprehensive range of foundational courses in both performance and general music. Our music performance classes include choir, band, and orchestra, as well as individual applied lessons in piano, voice, and most of the traditional string, wind, and percussion instruments, as well as conducting and composition. Courses in Music Theory, Aural Skills, Music Appreciation, and Music Fundamentals provide a basis for the understanding and appreciation of music.

Many music courses can be used to fulfill the Arts and Letters requirement of the Oregon Transfer Module (OTM) and the Associate of Arts Oregon Transfer degree (AAOT). See pages 57 and 58 of this catalog for a complete listing. By completing a prescribed set of music course, students will also be prepared to transfer as a music major to any of the Oregon state colleges. Oregon state colleges and universities offering Bachelor of Arts and/or Bachelor of Science degrees in Music are Eastern Oregon University, Oregon State University, Portland State University, Southern Oregon University, University of Oregon, and Western Oregon University. As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Also you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in this academic area.

We strongly recommend developing a term-by-term plan of study. Contact the Music Program Chair or consult with Chemeketa’s Advising and First Year Programs staff if you plan to transfer as a music major. Questions regarding Chemeketa's music offerings may be directed to the Liberal Arts and Social Science office at 503.399.5184 or the Music Program Chair at 503.365.4616.

Nursing Program

go.chemeketa.edu/nursing

Chmemeka offers a career ladder program for those who want to become licensed practical nurses or registered nurses.

The program is approved by the Oregon State Board of Nursing and accredited by the Accreditation Commission for Education in Nursing (ACEN). You may contact ACEN for information about the program’s accreditation status. The address for ACEN is 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326. The telephone number is 404.975.5000. The Web address is www.acenursing.org.

If you wish to transfer to a school of nursing that grants baccalaureate degrees after completing Chemeketa’s nursing program. Please contact your program advisor or Chemeketa’s Advising and First Year Programs staff for details at 503.399.5120. You should also make early contact with an advisor at the institution to which you plan to transfer.

This program has specific entry requirements as outlined in the nursing application packet available on Chemeketa’s web site, www.chemeketa.edu. Most nursing bound students complete the majority of general education and science courses required for the nursing program prior to applying in order to enhance their chance of admission. Enrollment in the program is limited, and there is an early deadline for applications.

We recommend that you contact the Health Sciences Department at 503.399.5058 or email healthsciences@chemeketa.edu for details if you are considering the Nursing program. Most students spend one or more years completing program entry requirements to prepare for applying to the Nursing program.

The nursing curriculum is designed to prepare you to apply for licensure at the following levels:

Practical Nursing Certificate of Completion

In addition to tuition, estimated costs for students who complete the Level I program courses listed below are books, $500; Differential fee, $290 universal fee, $696; clinical fee, $1,184; equipment and supplies, $705; criminal background check and drug testing fee, $90; CPR certification, $40; immunizations and TB screening, estimate $150; licensure testing fee including Pearson fee, $434. These costs do not include the General Education courses. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

A practical nurse is a member of a nursing or health care team and gives care to patients of all ages under the direction of registered nurses and/or licensed physicians and dentists.
Program Outcomes

Students completing the Practical Nursing certificate should be able to:

- Patient-centered care: Demonstrate organized and prioritized care in a patient centered manner that advocates for patients and families based on personal preferences, beliefs and values.
- Quality and Safety: Demonstrate nursing care that minimizes risk of harm to patients, self and others.
- Clinical Decision Making: Apply the nursing process based on current evidence and patient preferences, needs and values.
- Professionalism: Demonstrate nursing care that reflects integrity, accountability and legal/ethical practice.
- Informatics and technology: Demonstrate nursing care using current technology and patient information to maximize safety and optimize health.
- Teamwork and collaboration: Communicate effectively with patients, families, and members of the health-care team.

You may earn a certificate by successfully completing the required 60 credit hours with a grade of "C" or better in all courses. You must earn grades of "C" or better in all required courses in order to progress to the next term. Completion of this level qualifies you to apply to take the National Council Licensure Exam (NCLEX-PN) to become a licensed practical nurse (LPN).

Program Prerequisites:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH110</td>
<td>Foundations of General, Organic, and Biochemistry</td>
<td>5</td>
</tr>
<tr>
<td>BI231</td>
<td>Human Anatomy and Physiology 1*</td>
<td>4</td>
</tr>
<tr>
<td>BI232</td>
<td>Human Anatomy and Physiology 2</td>
<td>4</td>
</tr>
<tr>
<td>BI233</td>
<td>Human Anatomy and Physiology 3</td>
<td>4</td>
</tr>
<tr>
<td>PSY201</td>
<td>Psychology: Mind and Body†</td>
<td>4</td>
</tr>
<tr>
<td>PSY237</td>
<td>Life Span Development</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+‡</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>General Education elective</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Additional elective†</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Practical Nursing Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR106</td>
<td>Fundamentals of Nursing</td>
<td>9</td>
</tr>
<tr>
<td>NUR108</td>
<td>Acute and Chronic Condition 1</td>
<td>10</td>
</tr>
<tr>
<td>NUR109</td>
<td>Acute and Chronic Condition 2</td>
<td>10</td>
</tr>
</tbody>
</table>

*CH110, CH 104 & 105, or CH121 & 122 is a prerequisite for BI231.

**Additional elective: Any course of at least three credits and with a course number of 100 or above chosen from any of the following academic areas:
- ART, ASL, ATH, BI, CH, CLA, COMM, CIS, CS, ENL, ENG, FA, FR, GE, GEG, GEO, GS, HDF, HE, HOR, HPE, HST, HUM, JNL, JPN, MTH, MUS, NFM, OC, PE, PH, PHL, PS, PSY, RD, REL, RUS, SOC, SPN, SSG, SSR, WR, WS

†The following options may be used to fulfill the Psychology requirement:

<table>
<thead>
<tr>
<th>Completed</th>
<th>Course No.</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Summer Term 2010</td>
<td>WR121</td>
<td>3</td>
</tr>
<tr>
<td>and</td>
<td>PSY201</td>
<td>3</td>
</tr>
</tbody>
</table>

‡The following options may be used to fulfill this Writing course requirement:

<table>
<thead>
<tr>
<th>Completed</th>
<th>Course No.</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Summer Term 2010</td>
<td>WR122, or WR123, or WR227</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: The number of clock hours required for the above courses is higher than the number of credit hours. Details about clock hours for each course may be found in the Course Descriptions section of this catalog. Nursing courses are comprised of a combination of classroom and clinical hours with each classroom credit hour equal to one clock hour per week and each clinical credit hour equal to three clock hours per week. Preparation time for class and clinical experiences is outside the clock hours required for each course.

Nursing Associate of Applied Science Degree

In addition to tuition, estimated costs for students in Level II courses listed below are books, $500; Differential fee, $290; universal fee, $696; clinical fee, $1,275; criminal background check and drug testing fee, $90; equipment and supplies, $744; CPR certification, $40; TB screening, $50; licensure testing fee including Pearson fee, $434. These fees do not include General Education courses. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate degree by successfully completing the required 96 credit hours. You must earn grades of “C” or better in all required courses in order to progress through the terms. An associate degree in nursing qualifies you to apply to take the National Council Licensure Exam (NCLEX-RN) to become a registered nurse (RN).

RNs apply knowledge drawn from a broad, in-depth education in the social and physical sciences to assess, plan, order, provide, delegate, teach, and supervise care that promotes a patient’s optimum health and independence.

An RN guides other team members with less education and/ or experience, evaluates needs for patient instruction, plans and participates in health teaching, and applies mental health principles to nursing care and function. RNs must also assume responsibility for their own professional development.

Program Outcomes

Students completing the Nursing degree should be able to:

- Patient Centered Care: Incorporates novice level management skills while providing patient centered care.
- Quality and Safety: Develop nursing care that minimizes risk or harm to patients, self, and others; and uses data to monitor outcomes of patient centered care.
- Clinical Decision Making: Formulate clinical judgements in providing nursing care based on current evidence, clinical expertise, and patient preferences, needs, and values.
- Professionalism: Design nursing care that reflects integrity, accountability, and legal and ethical practice while modeling the professional roles of coordinator of care, educator, advocate, and leader.
- Informatics and technology: Formulate nursing care using current technology and patient information to maximize safety, and optimize health.
• Teamwork and collaboration: Communicate effectively and collaboratively in a self-directed manner with patients, families, and members of the healthcare team.

Nursing Program Prerequisites:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH110</td>
<td>Foundations of General, Organic, and Biochemistry</td>
<td>5</td>
</tr>
<tr>
<td>BI231</td>
<td>Human Anatomy and Physiology 1*</td>
<td>4</td>
</tr>
<tr>
<td>BI232</td>
<td>Human Anatomy and Physiology 2</td>
<td>4</td>
</tr>
<tr>
<td>BI233</td>
<td>Human Anatomy and Physiology 3</td>
<td>4</td>
</tr>
<tr>
<td>CIS101</td>
<td>Computing Concepts*</td>
<td>3</td>
</tr>
<tr>
<td>MTH095</td>
<td>Intermediate Algebra (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY201</td>
<td>Psychology: Mind and Body+†</td>
<td>4</td>
</tr>
<tr>
<td>PSY237</td>
<td>Life Span Development</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+‡</td>
<td>4</td>
</tr>
</tbody>
</table>

Core Nursing Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR106</td>
<td>Fundamentals of Nursing</td>
<td>9</td>
</tr>
<tr>
<td>NUR108</td>
<td>Acute and Chronic Condition 1</td>
<td>10</td>
</tr>
<tr>
<td>Term 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR109</td>
<td>Acute and Chronic Condition 2</td>
<td>10</td>
</tr>
<tr>
<td>Term 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR206</td>
<td>Complex Health Problems</td>
<td>11</td>
</tr>
<tr>
<td>Term 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR208</td>
<td>Care in Urgent and Community Settings</td>
<td>10</td>
</tr>
<tr>
<td>Term 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR209</td>
<td>Entry into Practice</td>
<td>8</td>
</tr>
</tbody>
</table>

*CH110, CH 104 & 105, or CH121 & 122 is a prerequisite for BI231.
**Or CIS120 or higher CIS course with CIS101 as a prerequisite.
***Additional elective: Any course of at least three credits and with a course number of 100 or above chosen from one of the following academic areas:
ART, ASL, ATH, BI, CH, CLA, COMM, CIS, CS, ENL, ENG, FA, FR, GE, GEG, GEO, GS, HDF, HE, HOR, HPE, HST, HUM, JNL, JPN, MTH, MUS, NFM, OC, PE, PH, PHL, PS, PSY, RD, REL, RUS, SOC, SPN, SSC, SSP, WR, WS
+Meets related instruction requirement, see page 48. For subject areas, see page 64.

†The following options may be used to fulfill the Psychology requirement:
Completed Course No. Credit Hours
Pre-Summer Term 2010 PSY201 3
Pre-Summer Term 2010 PSY202 3

‡The following options may be used to fulfill this Writing course requirement:
Completed Course No. Credit Hours
Pre-Summer Term 2010 and WR121 3
Pre-Summer Term 2010 WR122, or WR123, or WR227 3

Note: The number of clock hours required for the above courses is higher than the number of credit hours. Details about clock hours for each course may be found in the Course Descriptions section of this catalog. Nursing courses are comprised of a combination of classroom and clinical hours with each classroom credit hour equal to one clock hour per week and each clinical credit hour equal to three clock hours per week. Preparation time for class and clinical experiences is outside the clock hours required for each course.

Specialized Courses

The college periodically offers specialized courses to help registered nurses, licensed practical nurses, and other health-care personnel keep abreast of current knowledge and new developments in nursing. A non-credit basic nursing assistant course approved by the Oregon State Board of Nursing is also available. For more information about courses, contact the nursing office, 503.399.5058.

Nursing

Chemeketa is ready to help you plan your program entry requirements if you plan to transfer to a school of nursing that grants baccalaureate degrees. Chemeketa offers general education courses that apply to a Bachelor of Science degree program.

ADN to BSN Options

If you wish to transfer to a school of nursing that grants baccalaureate degrees after completing Chemeketa’s Nursing program, please contact your program advisor or Chemeketa’s Advising and First Year Programs staff, 503.399.5120 for details.

Our program is a strong advocate for a seamless transition in attaining a Bachelor of Science in Nursing (BSN) and advanced degrees. Students who are admitted to Chemeketa’s Nursing program are dually admitted to Linfield College. Upon successful completion of the nursing program and passing the National Council Licensure Exam (NCLEX-RN) students may enroll in the online RN-BSN program at Linfield.

The college has also established inter-institutional agreements with Oregon Health Sciences University, Warner Pacific University, Northwest Christian University, and George Fox University and a partnership agreement with University of Wisconsin-Green Bay. There are various other possibilities for students as well.

Admission to the Nursing program is competitive. As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. You should also make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Nutrition and Food Management

Dietetics

Oregon State University (OSU) offers a Bachelor of Science degree in Nutrition and Food Management with a Dietetics Option. The Dietetics Option meets the American Dietetics Association academic and accreditation requirements for students interested in becoming registered dietitians. It is essential that you work closely with OSU’s program advisor or Chemeketa’s Advising and First Year Programs staff to ensure that you choose the appropriate courses.

Please contact Chemeketa’s Advising and First Year Programs at 503.399.5120 for additional information. For OSU advice
Occupational Skills Training

go.chemeketa.edu/occupationskill

The Occupational Skills Training (OST) program offers students with a career goal in mind the opportunity to earn college credit for worksite-based training with approved community training sites throughout the state. When you enroll in this short-term program (up to 44 credits), you will receive hands-on training at a worksite based on a curriculum personalized for your chosen occupation and your individual abilities, skills, and interests. A suitable training site and curriculum will be determined jointly with you, your sponsoring agency (if applicable), and a Skills Training Coordinator at Chemeketa. The program is offered on an open entry/open exit basis. Program terms are standard length but you may start the program any time during the year.

A variety of occupational areas may be appropriate for the Occupational Skills Training program. Related classroom instruction may be included in the program if deemed part of the approved training plan.

Program Outcomes

Students completing the certificate should be able to:

• Demonstrate specific work habits required for employment.
• Perform job skills based on industry standards of the chosen occupation.

Tuition costs are based on the number of training hours spent at the work site. In addition to tuition, estimated costs for students participating in this program are $30 per term student fee and a $300 one-time application fee. Books and supplies average $250 per term if related courses are taken.

Some sites may receive a trainer incentive of $336 per term in addition to the above costs if approved and paid by the sponsoring agency or insurer (if applicable).

You may earn a certificate of completion by successfully completing from 18 to 44 credits of ST100A-Q Occupational Skills Training and related prescribed courses based upon the approved length of your training plan. Up to 12 credits may be applied toward the Associate of Arts Oregon Transfer degree. Up to 36 credits may be applied toward the Associate of General Studies degree, and variable credits may be applied toward the associate of applied science degree as determined by each career and technical education program area.

Non-credit options, such as On-the-Job Evaluation, are designed to provide a way to clarify vocational goals and assess capabilities and potential for a designated job or training area. This is a non-graded process that is monitored according to a personalized outcome assessment and provides workers’ compensation at the training site.

Getting Started

For an appointment with an OST employment representative or to receive a schedule of OST orientations, contact a staff member on the Salem Campus at 503.399.7398 or email ost@chemeketa.edu

Pharmacy Program

go.chemeketa.edu/pharmacology

Pharmacy Technician certificate and Pharmacy Management AAS degree prepare students for pharmacy technician positions in community, clinic, and hospital pharmacies. Pharmacy technicians assist licensed pharmacists with preparation of medications. The program offers a one-year Pharmacy Technician certificate with the option of continuing and completing a two-year associate of applied science degree in Pharmacy Management. The Pharmacy Technician certificate program is accredited by the American Society of Health-Systems Pharmacists/Accreditation Council for Pharmacy Education.

Courses focus on the abilities needed to assist the pharmacist in collecting, organizing, and evaluating information for direct patient care. Content includes drug classification, pharmacokinetics and pharmacodynamics of prescription medications, as well as an introduction to non-prescription drugs; pathophysiology regarding diseases; pharmaceutical inventory control; laws and ethics that apply to pharmacy operations; introduction to specialty pharmacies; in-depth concepts of sterility and quality assurance processes; and multicultural aspects of health care. In addition, students develop communication skills and essential mathematical concepts related to medication dosing. Students will also participate in workplace experiences.

The intent of the program is to prepare students to take the national certification examination to become Certified Pharmacy Technicians and be employed in a pharmacy setting.

Program Outcomes

Students completing the Pharmacy Technician certificate should be able to:

• Organize and maintain patient records and inventory control systems.
• Accurately compound and prepare prescriptions under the direction of a licensed pharmacist.
• Use aseptic technology to prepare prescriptions in specialized pharmaceutical settings.

Students completing the Pharmacy Management degree should be able to:

• Provide leadership as a pharmacy manager using effective communication strategies, including speaking, listening, writing, negotiating, and persuasion.
• Use accounting principles for inventory management and cost containment.
• Ensure regulatory compliance and patient safety within the pharmacy organization.

Getting Started

This program has special admission requirements and enrollment limits. The first step to entering the following program is to take part in an assessment process, which includes taking the college’s free placement test and meeting with Chemeketa’s Advising and First Year Programs staff.
For admission to the program, an application is required. This is a separate step from testing and assessment. Applications are available in Advising and First Year Programs, Enrollment Services, program offices, and online. Should you have any questions, contact the Health Sciences Department at 503.399.5058.

Students are required to submit a copy of their current American Heart Association Healthcare Provider CPR cards and completed immunization forms prior to registration in the first term of the program. Students must also pass a criminal background check, be fingerprinted, and undergo drug testing (pursuant to OAR 855-010-0045). Practicum sites also require student licensure from the Oregon Board of Pharmacy.

**Pharmacy Technician Certificate of Completion**

In addition to tuition, estimated costs for students who complete the courses listed below are books, $300; class fees, $210; universal fee, $1,344; differential fee, $430; equipment and supplies, $22; Lab fees, $210; one-year non-renewable license (includes criminal background check and fingerprinting), $90; drug testing, $50; CPR certification, $80; immunizations, $150; Certified Pharmacy Technician examination fee, $129. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs. Students are responsible for costs related to travel to practicum locations.

You may earn a certificate of completion by successfully completing the required 56 credit hours with a grade of “C” or better in all courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>MTH070 Elementary Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>PHM101 Introduction to Pharmacy Technology</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>PHM115 Pharmacy Operations/Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHM120 Pharmacy Operations/Laboratory</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHM230 Pharmaceutical Drug Classifications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHM231 Pharmacology 1</td>
<td>5</td>
</tr>
<tr>
<td>Term 2</td>
<td>PHM110 Pharmacy Calculations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHM210 Over-the-Counter (OTC) Products</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>PHM215 Sterile Compounding/Cytotoxic Medications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHM220 Multicultural Patient Healthcare</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>PHM232 Pharmacology 2</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>WR115 Introduction to Composition+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Term 3</td>
<td>PHM130 Pharmacy Information: Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PHM150 Pharmacy Tech Practicum</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>PHM151 Pharmacy Tech Seminar 1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>PHM233 Pharmacology 3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PSY104 Workplace Psychology+ (or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>

*Meets related instruction requirement.

**Pharmacy Management Associate of Applied Science Degree**

In addition to tuition, estimated costs for students who complete second year courses listed below are books, $1,570; class fees, $222; universal fee, $1,176; differential fee $30. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs. Students are responsible for costs related to travel to practicum locations.

You may earn an associate of applied science degree by successfully completing required 105 credit hours of the two-year Pharmacy Management program (49 credits during the second year in addition to the 56-credit Pharmacy Technician certificate) with a grade of “C” or better in all courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Term 4</td>
<td>BA101 Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BA234 Fundamentals of Supply Chain Management</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MTH095 Intermediate Algebra (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>WR121 Academic Composition</td>
<td>4</td>
</tr>
<tr>
<td>Term 5</td>
<td>BA206 Business Management Principles</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>COMM218 Interpersonal Communication</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>EC201 Introduction to Microeconomics (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>HPE295 Health and Fitness for Life</td>
<td>3</td>
</tr>
<tr>
<td>Term 6</td>
<td>BA226 Business Law 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CIS125E Excel-Workbooks</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>PHM160 Hospital/Ambulatory Pharmacy Practicum</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>PHM161 Pharmacy Tech Seminar 2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>PSY201 Psychology: Mind and Body+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Arts and Letters elective*</td>
<td>3</td>
</tr>
</tbody>
</table>

*Choose courses numbered 200 or above.

**Philosophy and Religious Studies**

For discipline outcomes, see General Education Outcomes—Arts and Letters on page 54.

Chemeketa offers a number of Philosophy and Religious Studies courses. Some of these courses can be used to fulfill the Arts and Letters requirements of the Associate of Arts Oregon Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Oregon’s state universities offering Bachelor of Arts and/or Bachelor of Science degrees in Philosophy are Oregon State University, Portland State University, University of Oregon, and Western Oregon University.

As a student, you are responsible for learning the program requirements of the school to which you plan to transfer. Consult with our Advising and First Year Programs staff or a Chemeketa Philosophy and Religious Studies faculty advisor. You should also make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in a program.

Refer to the Associate of Arts Oregon Transfer degree information in the Degrees, Diplomas, certificates and Transfer Information section of this catalog beginning on page 58.
Physical Education and Human Performance
For discipline outcomes, see General Education Outcomes beginning on page 54.

Chemeketa offers a number of physical education courses. Some of these courses can be used to fulfill the requirements of the Associate of Arts Oregon Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Students wishing to explore careers in Health or Physical Education are encouraged to complete a two-year Associate of Arts Oregon Transfer (AAOT) degree from Chemeketa with a Health Promotion emphasis and continue their studies at a public or private four-year institution. Possible areas of interest include Athletic Training, Coaching, Exercise Science, Fitness Management, Public Health, Nutrition, Pre-Therapy, Sports Management, and Teaching.

Oregon’s state universities offering Bachelor of Arts and/or Bachelor of Science degrees in Physical Education, Human Movement Studies, or Exercise and Movement Science are Eastern Oregon University, Oregon State University, Southern Oregon University, University of Oregon, and Western Oregon University. OSU offers a bachelor’s degree in Exercise and Sports Science with options in Athletic Training, Exercise Science, Physical Education Teacher Education, Pre-therapy and Applied Exercise Science. SOU offers options in Athletic Training/Sports Medicine and Health Promotion/Fitness Management. WOU has teaching and non-teaching options. Those students planning to teach Physical Education will need to complete a year of post-baccalaureate work to meet teacher certification at all state system colleges except WOU.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa’s Advising and First Year Programs staff or a Chemeketa physics faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Political Science
For discipline outcomes, see General Education Outcomes—Social Science on page 55.

Chemeketa offers a number of political science courses. Some of these courses can be used to fulfill the Social Science requirements of the Associate of Arts Oregon Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Oregon’s state universities offering Bachelor of Arts and/or Bachelor of Science degrees in Political Science are Oregon State University, Portland State University, Southern Oregon University, University of Oregon, and Western Oregon University.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa’s Advising and First Year Programs staff or a Chemeketa Political Science faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Pre-Engineering
See Engineering.

Pre-Law
For discipline outcomes, see General Education Outcomes beginning on page 54.

University of Oregon is the only state university in Oregon that has a School of Law. (Lewis and Clark College and Willamette University are the Oregon independent schools that have Schools of Law.) Applicants for law school must have a baccalaureate degree from an accredited college or university. Admission to law schools is highly competitive.

Law schools do not recommend any particular major for pre-legal education. In general, they prefer a liberal undergraduate background to one that is narrowly specialized. Students may pursue an undergraduate major of their choice. The University of Oregon School of Law emphasizes the importance of well-developed skills in writing and communications, and of acquiring the ability to read with understanding, to think logically, and to perform research and analysis competently.

Although not required for admission, University of Oregon recommends the following courses: BA211, 212, 213 Financial Accounting and Managerial Accounting; EC201,
Chemeketa offers a number of science courses, including chemistry, biology, and anatomy and physiology. Some of these courses can be used to fulfill the Science requirements of the Associate of Arts Oregon Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Oregon Health Sciences University offers a DMD degree in Dentistry and an M.D. degree in Medicine, and Oregon State University offers a DVM in Veterinary Medicine and a PharmD in Pharmacy.

Because admission into these professional schools is highly competitive. We recommend that students complete the most rigorous chemistry sequence for which they are qualified, as well as stipulated courses in basic science and general education.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa's Advising and First Year Programs staff. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Psychology
For discipline outcomes, see General Education Outcomes—Social Science on page 55.

Chemeketa offers a number of psychology courses. Some of these courses can be used to fulfill the Social Science requirements of the Associate of Arts Oregon Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Oregon's state universities offering Bachelor of Arts and/or Bachelor of Science degrees in Psychology are Eastern Oregon University, Oregon State University, Portland State University, Southern Oregon University, University of Oregon, and Western Oregon University.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa's Advising and First Year Programs staff or a Chemeketa Psychology faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Robotics Program

go.chemeketa.edu/

See also Electronic Technologies Program

Chemeketa's Robotics program is designed to prepare students for industrial automation in applications and service type positions. The program provides training in topics such as assembling, installation, troubleshooting, and maintaining and operating industrial robotic systems. Students develop skills in industrial controls, programming, vision systems, fluid power, multi axis motion control, and automation integration, and use robotics with programmable controllers, as well as conventional control systems, to solve problems in an industrial flexible manufacturing environment. The Robotics program offers hands-on learning with modern equipment in classes taught by faculty who have spent their careers working in the field of electronics. Graduates of the Robotics program will be prepared to work as an automated equipment technician in almost any industry. Today, robots can be used in manufacturing, transportation, safety research, mass production, and even surgery. This field offers a wide range of employment opportunities to those who are properly qualified to work in robotics.

You may be interested in our Cooperative Work Experience program, which allows you to earn college credit for work relating to your program. With the approval of the program chair, you may enroll in ELT280B-L Cooperative Work Experience and earn college credit hours. For more information, look under Cooperative Work Experience in the catalog index.

Program Outcomes

Students completing the Robotics degree should be able to:

- Use appropriate technology to design, construct, and troubleshoot robotic systems for both consumer and industrial use.
- Apply scientific processes and critical thinking skills to issues in the high technology field of robotics.
- Explain the ethical aspects of utilizing robotics in society.

Getting Started

The Robotics degree has a special admission requirements and enrollment limits. The first step to entering this program is to take the college’s free placement test and meet with Advising and First Year Programs First Year Programs staff, 503.399.5120. There are entry-level expectations for skill levels in reading, writing, and mathematics. If you have questions about the requirements, 503.399.5210.

For admission to the program, an application is required. This is a separate step from the testing and assessment steps. Applications are available in Advising and First Year Programs, Admissions, on the Chemeketa public Website, at the Electronics program staff office in Building 4, Room 121, and the Applied Technologies office in Building 20,
Robotics Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $3,472; class fees, $756; universal fee, $2,448, equipment and materials $300. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 102 credit hours with a grade of “C” or better in all courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Term</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Term 1</td>
<td>CAM105 Precision Measurement</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAM110 Benchwork and Manual Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ELT100 Electronics Fundamentals for Non-Majors</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ELT111 Electronics Orientation</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MT105 Introduction to Robotics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MTH081 Technical Mathematics 1+</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MTH111 College Algebra+</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Term 2</td>
<td>CAM115 Geometric Dimensioning and Tolerances</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DRF130 CAD1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ELT151 Digital Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MTH082 Technical Mathematics 2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MTH112 Trigonometry</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WR121 Academic Composition+</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Term 3</td>
<td>CAM120 Manual Milling Processes</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DRF210 Parametric Design with SolidWorks</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FE205B Resumes and Job Search Correspondence</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MT211 Sensors and Control Elements 1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MT231 Programmable Logic Controllers 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WR227 Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Term 4</td>
<td>ELT121 Programming Concepts 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MT212 Sensors and Control Elements 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MT232 Programmable Logic Controllers 2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PH121 Applied Physics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WLD105 Introduction to Welding</td>
<td>3</td>
</tr>
</tbody>
</table>

Term 5

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>COMM111 Fundamentals of Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MT130 Motors, Pumps, and Generators</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MT227A Pneumatics and Hydraulics Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MT260 Factory Floor Networks</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MT291 Robotic Capstone Preparation</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>PH122 Applied Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

Term 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ELT293 Flexible Manufacturing Systems and Processes</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MT216 Statistical Process Control</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MT235 Human Machine Interfaces</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MT292 Robotic Capstone</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>PSY104 Workplace Psychology+</td>
<td>4</td>
</tr>
</tbody>
</table>

+S+Meets related instruction requirement, see page 48. For subject areas, see page 64.

Sociology

For discipline outcomes, see General Education Outcomes—Social Science on page 55.

Chemeketa offers a number of sociology courses. Some of these courses can be used to fulfill the Social Science requirements of the Associate of Arts Oregon Transfer degree and the Associate of Science Transfer degrees in Business and Computer Science. See pages 58, 60, and 62 for a complete listing.

Oregon’s state universities offering Bachelor of Arts and/or Bachelor of Science degrees in Sociology are Oregon State University, Portland State University, Southern Oregon University, University of Oregon, and Western Oregon University. Eastern Oregon University offers an Anthropology/Sociology degree with emphasis in Sociology.

As a student, you are responsible for learning the departmental requirements of the school to which you plan to transfer. Consult with Chemeketa’s Advising and First Year Programs staff or a Chemeketa Sociology faculty advisor. Also, you should make early contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Speech-Language Pathology Assistant Program

speechpathology.chemeketa.edu

Program courses delivered entirely online.

The Speech-Language Pathology Assistant (SLPA) program is a comprehensive certificate and degree program of both theory and practical experience designed to prepare students to become certified speech-language pathology assistants.

An SLPA is a certified support person who works under the supervision of a licensed speech-language pathologist. The SLPA performs specific therapy-related tasks that are prescribed and directed by their supervising speech-language pathologist. The SLPA works closely with others in a variety of settings, including schools, hospitals, rehabilitation centers,
and in private practice. As a member of a speech-language therapy team, the SLPA helps children and adults with communication disorders improve their ability to speak, listen, and interact with others. SLPAs are responsible for following the directed treatment plan of the supervising SLP while working independently to deliver therapy services to children and adults, taking and tracking data, and various other roles and responsibilities within their scope of practice.

The SLPA program heavily assesses communication skills in the areas of speaking and writing. Students who are ESOL speakers must have a satisfactory TOEFL score or ESOL level. Students applying to the SLPA program will be required to communicate clearly in English with strong articulation skills, use writing skills to take data, communicate clearly in chart notes, and use written discourse in taking descriptive therapy data and dialogue.

Students from other states have successfully completed Chemeketa's SLPA program. Interested students are encouraged to contact their state licensing board for speech-language pathology to ensure that this program will meet their state licensing requirements. Chemeketa's SLPA program website has more information on licensing for various states.

Oregon residents may contact the Oregon State Board of Examiners for Speech Pathology and Audiology at 971.673.0220 or through their website at www.oregon.gov/bspa/Pages/index.aspx to review the educational and practicum requirements necessary to be certified as a speech-language pathology assistant.

Program Outcomes

Students completing the SPLA certificate or degree should be able to:

- Conduct individual and small group speech and language therapy services as directed by supervising speech-language pathologist.
- Accurately record and organize data taken from the therapy sessions and communicate findings to supervising speech-language pathologist.

This SLPA program is a limited-enrollment program with special admission requirements. An SLPA application packet is required to apply for admission to this program. This is a separate step in addition to the placement testing and advising that may be required through Advising and First Year Programs. Applications are available on the program website. Application deadline is June 1 for Fall term entry. Once admitted, students are required to follow the prescribed outline of the courses throughout the program. For those students who are taking only the SLPA program courses, a course load of nine credits is typical and considered part-time. The program usually takes five terms to complete attending part-time. Students are typically admitted as a cohort beginning Fall term after being admitted to the program. Coursework for the program is divided over 5 terms; Fall 1, Winter 1, Spring 1, Fall 2 (practicum+ coursework), Winter 2 (practicum+ coursework).

Students enrolled in the SLPA program are required to complete two terms of practicum coursework and 100 clinical interaction hours under the supervision of a speech-language pathologist. SLPA students must work with program staff to identify a suitable practicum supervisor and site. SLPA program students are required to submit and pass a criminal background check at their own expense in order to be admitted to the program. Practicum sites may require students to complete fingerprinting at their own expense.

The first step to entering the SLPA program is to obtain the current SLPA program application from the SLPA program website: speechpathology.chemeketa.edu. Students are strongly encouraged to meet with the designated advisor for the SLPA program within Chemeketa's Advising and First Year Programs to formulate an individualized program of study.

If you have any questions about the requirements, contact SLPA program staff at 503.589.7815.

Speech-Language Pathology Assistant Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $1,400; universal fee, $1,368; online fee, $750-$900. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn a certificate of completion by successfully completing these required 57 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH070</td>
<td>Elementary Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY101</td>
<td>Psychology of Human Relations+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>SLP180</td>
<td>Survey of Speech and Language Disorders</td>
<td></td>
</tr>
<tr>
<td>SLP181</td>
<td>Phonetics for Language</td>
<td></td>
</tr>
<tr>
<td>SLP182</td>
<td>Intervention Strategies for SLP Assistants</td>
<td></td>
</tr>
<tr>
<td>SLP183</td>
<td>Introduction to Language Development</td>
<td></td>
</tr>
<tr>
<td>SLP284</td>
<td>Language Therapy</td>
<td></td>
</tr>
<tr>
<td>SLP285</td>
<td>Anatomy and Physiology of Speech and Language</td>
<td></td>
</tr>
<tr>
<td>SLP286</td>
<td>Speech Intervention with Children, Adolescents, and Adults</td>
<td></td>
</tr>
<tr>
<td>SLP287</td>
<td>Clinical Documentation and Materials Management for the SLPA</td>
<td></td>
</tr>
<tr>
<td>SLP288</td>
<td>Communication Disorders in Low Incidence Populations</td>
<td></td>
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<tr>
<td>SLP289</td>
<td>SLPA Practicum 1</td>
<td></td>
</tr>
<tr>
<td>SLP290</td>
<td>SLPA Practicum 2</td>
<td></td>
</tr>
<tr>
<td>SLP291</td>
<td>Ethical and Legal Considerations in Speech-Language Pathology</td>
<td></td>
</tr>
<tr>
<td>SLP292</td>
<td>Augmentative and Alternative Communication</td>
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<tr>
<td>SLP293</td>
<td>Adult Communication Disorders</td>
<td></td>
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<tr>
<td>SLP294</td>
<td>Language, Culture and Society: Cross-Cultural Communication</td>
<td></td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+ (or higher)</td>
<td></td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.

Speech-Language Pathology Assistant Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $2,350; universal fee, $2,280; online fee, $900-$1,400. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.
You may earn an associate of applied science degree by successfully completing 95 credit hours (57 credits for the certificate, and an additional 38 general education credits) with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education requirements (38 credit hours):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CJIS101</td>
<td>Computing Concepts (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>COMM100</td>
<td>Introduction to Communication (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Arts and Letters electives</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Physical Education or Health electives</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Science/Applied Science electives</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Social Science electives</td>
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<td>8</td>
</tr>
</tbody>
</table>

**Visual Communications Program**

vc.chemeketa.edu

The Visual Communications program offers three associate of applied science degrees: Graphic Design, Interactive Media, and Multimedia Arts. These degrees give students a platform from which to launch a creative career. While both Graphic Design and Interactive Media share much of the same curriculum, the Multimedia Arts degree has a separate focus with only some shared courses and electives.

**Graphic Design and Interactive Media Degrees**

For Graphic Design and Interactive Media degrees, students share a common course of study during the first two quarters, which includes required program as well as general education classes. As part of the program, all students develop skills in graphic design, web design, layout, typography, and digital media, as well as the teamwork, creative problem solving, and life-long learning skills essential to a successful creative career. Graphic Design students have additional course work in page layout and illustration, while Interactive Media students focus on learning front-end Web design (HTML and CSS). By spring term of their first year, students determine which degree path (Graphic Design or Interactive Media) they will pursue. Students completing the program over a three-year period have the option of earning both of these degrees. (Check with the Financial Aid Office to see if this will work for you.)

During the second year, students take either the required graphic design or interactive media courses and then come together during their final term for the capstone portfolio class and show. Students work closely together in all classes, sharing common studio space and computer lab facilities. Opportunities to work in traditional media alongside new media abound in both required and elective classes. Students produce a print and/or digital portfolio of work, including a personal brand, résumé, and website in preparation for entering the job market.

**Multimedia Arts Degree**

Students opting for an AAS degree in Multimedia Arts have a unique path of study that is mostly separate from the other degrees within Visual Communications. This includes different entrance portfolio requirements and an academic focus on photography, motion graphics/animation, and filmmaking. Beginning the degree track with a cohort of other students in the fall, all Multimedia Arts students take introductory software classes (joined by Graphic Design and Interactive Media students) before diverging into time-based media and photography during their first year. The second year of study includes additional study of motion graphics, filmmaking, and portfolio-building courses that culminate in a demo reel and exhibition that ranges in form and media depending on the student's choice of focus. The purchase of a multi-terabyte hard drive and digital camera that provides manual controls and capable of high definition video is required of all students by the second term of their first year.

**Common Features**

Visual Communications is a limited enrollment program, and students, regardless of the degree they are seeking, must apply in spring for entry the following fall term. All degrees take a minimum of two full years to complete, and students must begin the program fall term. Some students choose to spread their coursework over three years which allows for more in-depth study and often culminates in the completion of one or more degrees. Students interested in completing a bachelor's degree have several transfer options and should meet with the program chair before beginning the program. For more information, visit the program website at vc.chemeketa.edu.

During their studies, students have a number of opportunities to work on live jobs, collaborate with other students within the other degree tracks, and experience a range of cutting-edge media equipment, facilities, and techniques. Visual Communications students meet with faculty for regular advising meetings to assist in successfully completing the degree in two years (as a full-time student), or three years (as a part-time student taking less than the full load).

**Getting started**

The program has special admission requirements and enrollment limits. Attending a program overview session is required in order to learn all current program information and application procedures. Sessions are scheduled throughout the year, and dates are posted on the program website at cccvc.com/howtoapply. You will also find a digital application on the website detailed information about the application process.

The Visual Communications program accepts digital applications for fall entry from mid-April through the end of June (visit the website for exact dates). Students may apply for the program while completing the prerequisite courses listed above. If you have questions about program requirements, contact the Visual Communications program at 503.399.6475 or email vc@chemeketa.edu.

**Program Outcomes**

Students completing the Graphic Design and Interactive Media degrees should be able to:

- Work with others in the creation and production of original ideas and graphic design and/or interactive media.
- Research and present design solutions to communication projects.

2019–2020 Chemeketa Community College Catalog
• Use current and evolving industry standard methods and processes in the production and crafting of graphic design and/or interactive communications.

• Articulate and apply the trade practices, ethics, and copyright laws related to graphic arts.

• Participate in a client-designer relationship in the implementation and evaluation of projects.

• Organize and present a portfolio of work that gives evidence of the skills, knowledge, and abilities to begin a graphic design and/or interactive media career or transfer to a four-year college for additional study.

Students completing the Multimedia Arts Associate of Applied Science Degree should be able to:

• Work with others in the creation and production of original ideas and graphic design, interactive media, or multimedia arts.

• Research and present design solutions to communication projects.

• Use current and evolving industry standard methods and processes in the production and crafting of graphic design, interactive media, or works of multimedia, including photography, filmmaking, and motion graphics.

• Articulate and apply the trade practices, ethics, and copyright laws related to graphic and/or multimedia arts.

• Participate in a client-designer relationship in the implementation and evaluation of projects.

• Organize and present a portfolio of work that gives evidence of the skills, knowledge, and abilities to begin a graphic design, interactive media, or multimedia arts career or transfer to a four-year college for additional study.

Graphic Design Associate of Applied Science Degree

In addition to tuition, estimated costs for the students who complete the entire Graphic Design program average $645 per term. Costs include photographic supplies, books, printing, presentation supplies, tracing paper, sketchbooks, and digital media. A portfolio, at a cost of up to $250, is required for graduation. Class, universal, and differential fees for Graphic Design total $4,364 for required courses. Although not required, a home computer greatly enhances the student’s ability to successfully complete coursework and learn new software. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by maintaining a grade point average of 2.00 and successfully completing the required 106 credit hours with a grade of “C” or better in all courses.

### Course Title Credit Hours

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART115</td>
<td>Basic Design: Black and White</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>ART131</td>
<td>Introduction to Drawing</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>VC111</td>
<td>Introduction to Visual Communications</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>VC114</td>
<td>Introduction to Digital Graphics</td>
<td>4</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Term 2</th>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ART207</td>
<td>Graphic Design Literacy</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>ART225</td>
<td>Type Design 1</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>VC115</td>
<td>Introduction to Digital Layout</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>WR121</td>
<td>Academic Composition+</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Graphic Design electives (select one course):

*ART120 | Digital Media Time Design | 4 |
*ART237 | Photo Illustration | 4 |
*ART238 | Introduction to Illustration | 3 |
*ART243 | Advanced Illustration | 3 |
*ART265 | Photography 1 | 4 |
*ART266 | Photography 2 | 4 |
*ART267 | Portrait Photography | 4 |
*ART268 | Documentary Photography | 4 |
*ART289 | The Medium and the Message | 4 |
*VC130 | Photoshop 1 | 2 |
*VC133A | InDesign 1 | 2 |
*VC134 | Dreamweaver 1 | 2 |
*VC139 | Illustrator 1 | 2 |
*VC147 | Cascading Style Sheets | 2 |
*VC237 | Web Design 1 | 4 |

Interactive Media Associate of Applied Science Degree Option

In addition to tuition, estimated costs for the students who complete the entire Interactive Media program average $547 per term. Costs include books, printing, presentation supplies, tracing paper, sketchbooks, and digital media. Class, universal, and differential fees for the Interactive Media option total $4,261 for required courses. Although not required, a home computer greatly enhances the student’s ability to successfully complete coursework and learn new software. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by maintaining a grade point average of 2.00 and successfully completing the required 106 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Term 3</th>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART118</td>
<td>Digital Design and Color</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>ART225</td>
<td>Type Design 2</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>ART234</td>
<td>Figure Drawing</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>COMM112</td>
<td>Persuasive Speaking</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>VC224</td>
<td>Layout 1: Page Design</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Term 4</th>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART221</td>
<td>Graphic Design 1: Icons and Symbols</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>ART238</td>
<td>Introduction to Illustration</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>or ART265</td>
<td>Photography 1</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>VC225</td>
<td>Layout 2: Intermediate Page Design</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>VC246</td>
<td>File Prep</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>VC272A</td>
<td>Design Studio</td>
<td>2</td>
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</table>

<table>
<thead>
<tr>
<th>Term 5</th>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART222</td>
<td>Graphic Design 2: Logo Design</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>ART239</td>
<td>Introduction to Digital Illustration</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra+ (or higher)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>VC226</td>
<td>Layout 3: Publication Design</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>VC235</td>
<td>Interface Design</td>
<td>3</td>
<td></td>
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<table>
<thead>
<tr>
<th>Term 6</th>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ART223</td>
<td>Graphic Design 3: Package Design</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PSY104</td>
<td>Workplace Psychology+</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>VC283</td>
<td>Business of Graphic Arts</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>VC284</td>
<td>Portfolio</td>
<td>4</td>
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</tr>
<tr>
<td>VC285A</td>
<td>Design Portfolio Preparation</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 48. For subject areas, see page 64.
completing the required 105 credit hours with a grade of “C” or better in all courses.

### Course Title Credit Hours
#### Term 1
- ART115 Basic Design: Black and White .............................. 4
- ART131 Introduction to Drawing ................................. 4
- VC111 Introduction to Visual Communications ................. 4
- VC114 Introduction to Digital Graphics ......................... 4

#### Term 2
- ART207 Graphic Design Literacy ...................................... 4
- ART224 Type Design 1 .................................................. 4
- VC115 Introduction to Digital Layout ............................ 4
- WR121 Academic Composition+ .................................... 4

#### Term 3
- ART118 Digital Design and Color .................................... 4
- ART225 Type Design 2 ................................................. 4
- VC224 Layout 1: Page Design ......................................... 4
- VC237 Web Design 1 .................................................... 4

#### Term 4
- ART221 Graphic Design 1: Icons and Symbols ................. 4
- CIS121 Introduction to Programming Concepts ............... 4
- COMM112 Persuasive Speaking ....................................... 4
- VC238 Web Design 2 ................................................... 4
- VC272B Web Studio ..................................................... 2

#### Term 5
- ART222 Graphic Design 2: Logo Design .......................... 4
- CIS133SC Fundamentals of Scripting Languages ............... 4
- PSY104 Workplace Psychology+ .................................... 4
- VC235 Interface Design ............................................... 3
- VC239 Web Design 3 .................................................... 4

#### Term 6
- MTH060 Introductory Algebra+ (or higher) ...................... 4
- VC241 Interactive Media ............................................... 4
- VC283 Business of Graphic Arts .................................... 4
- VC284 Portfolio .......................................................... 4
- VC285B Web Portfolio Preparation .................................. 2

*Interactive Media electives (select one course):
- ART120 Digital Media Time Design .................................... 4
- ART223 Graphic Design 3: Package Design ....................... 4
- ART237 Photo Illustration ............................................. 4
- ART238 Introduction to Illustration ................................. 3
- ART265 Photography 1 ............................................... 4
- VC130 Photoshop 1 ..................................................... 2
- VC133A InDesign 1 ....................................................... 2
- VC134 Dreamweaver 1 ................................................... 2
- VC139 Illustrator 1 ...................................................... 2
- VC147 Cascading Style Sheets ........................................ 2
- FLM265 Documentary Filmmaking .................................... 3

#### Multimedia Arts Associate of Applied Science Degree

In addition to tuition, estimated costs for the students who complete the entire Multimedia Arts degree average $440 per term. Costs include photographic supplies, hard drives, books, printing, presentation supplies, sketchbooks, and digital media. Class, universal, and differential fees for the Interactive Media option total $3,707 for required courses. Although not required, a home computer greatly enhances the student’s ability to successfully complete coursework and learn new software. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by maintaining a grade point average of 2.00 and successfully completing the required 94 credits.

### Course Title Credit Hours
#### Term 1
- ART115 Basic Design: Black and White .............................. 4
- ART265 Photography 1 .................................................. 4
- ART203 New Media Art .................................................. 4
- VC114 Introduction to Digital Graphics ......................... 4

#### Term 2
- ART120 Digital Media Time Design .................................... 4
- ART202 History of Photography ...................................... 4
- FMS201 Introduction to Film .......................................... 4
- ART237 Photo Illustration ............................................. 4
- ART131 Introduction to Drawing ...................................... 4

#### Term 3
- ART224 Type Design 3 .................................................. 4
- FLM230 Audio Production and Sound Design .................... 4
- JNL240 Multimedia Journalism ...................................... 3
- WR121 Academic Composition ....................................... 4

#### Term 4
- ART222 Graphic Design 2: Logo Design .......................... 4
- FLM265 Documentary Filmmaking .................................... 3
- VC243 Animation and Motion Graphics 1 ......................... 4
- VC272D Multimedia Arts Studio ..................................... 2
- ART267 Portrait Photography ......................................... 4

#### Term 5
- ART268 Documentary Photography ................................... 4
- FLM266 Narrative Filmmaking ........................................ 3
- VC244 Animation and Motion Graphics 2 ......................... 4
- PSY104 Workplace Psychology+ .................................... 4
- Multimedia Arts Elective* ............................................ 4

#### Term 6
- FLM268 Independent Filmmaking ..................................... 3
- ART249 Emerging Multimedia Arts and Technology ............ 4
- VC286 Multimedia Arts Portfolio .................................... 4
- MTH060 Introductory Algebra+ (or higher) ...................... 4

*Multimedia Arts electives (select one course):
- ART234 Figure Drawing ................................................. 4
- ART261 Darkroom and Film Photography ......................... 4
- ART267 Portrait Photography ........................................ 4
- ART268 Documentary Photography ................................ 4
- WR262 Screenwriting: Feature Films ................................. 4
Welding Technology
Program
go.chemeketa.edu/welding

The Welding Technology program offers several options: two career pathway certificates, a three-term Welding certificate, and the six-term Welding Fabrication AAS degree. The Arc Welding certificate and the MIG Welding certificate focus on two specialized types of welding; the Welding certificate combines training with classes in the background knowledge needed by workers in welding occupations. You practice and develop your welding skills in the laboratory and may take an examination for certification in plate welding. The Welding Fabrication degree program is for those who want to acquire the technical knowledge and skills required for workers in welding, fabrication, and related occupations.

Welding fabrication technicians are skilled in the use of oxyacetylene welding and cutting equipment, manual arc, tungsten inert gas (TIG), and metallic inert gas (MIG) processes and have a working knowledge of shop blueprints and welding symbols, jig fabrication, and assembly processes.

The certificates have been designed to be completed in one year or less and the degree program in less than two years if you attend full time. However, there are entry-level expectations for skill levels in reading, writing, and mathematics. The length of time you take to complete the program will depend on your skills in these areas. To assess the time you will need to complete the program, please meet with the program chair.

Program Outcomes

Students completing the Arc Welding certificate or the MIG Welding certificate should be able to:

• Set up and operate shielded metal arc welding (SMAW) equipment used in the welding/metal fabrication industry.
• Perform basic layout and fabrication skills to produce welded metal parts and products.
• Read and interpret engineering drawings to American Welding Society standards.

In addition to the Arc or MIG Welding certificate outcomes, students completing the Welding certificate should be able to:

• Set up and operate manual and semi-automatic welding and cutting equipment used in the metal fabrication industry.
• Use welding process and procedure applications.
• Apply basic metallurgy knowledge to fabrication processes.
• Perform as a team member and practice skills that reflect professional and ethical behavior in the workplace.

In addition to the certificate outcomes, students completing the Welding Fabrication degree should be able to:

• Perform basic set-ups and operations for manual and computer numeric controlled machining equipment.
• Design and carry out planning procedures for welding purposes.

• Select and use tools and equipment to manufacture, measure, and inspect parts in a welding environment.

If you have questions about the requirements, contact Mike Myers at 503.399.6066 or email mike.myers@chemeketa.edu.

For admission to the program, an application is required. This is a separate step from the testing and assessment steps. Applications are available at www.chemeketa.edu/programs-classes/program finder/welding.

Enrollment in this program is limited, and there is an early deadline for applications. All applicants must attend the Welding Technology Orientation as a requirement for acceptance into the program. We recommend that you contact Chemeketa’s Advising and First Year Programs at 503.399.5120 or the Welding Technology program chair at 503.399.6066 for details if you are considering the Welding certificate or the Welding Fabrication degree.

Arc Welding Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $344; class fees, $603; universal fee, $528; equipment and supplies, $500; and certification test, $200 (optional). Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

This program combines hands-on training in the use of SMAW welding equipment with the associated coursework needed for success in the field. The program assists students in meeting the entry-level qualifications of the welding industry and prepares them to take the American Society of Welding’s D1.1 Structural Welding Code Performance Qualification examination. This certificate is wholly contained within the Welding Fabrication AAS degree program and may serve as the first step in a career pathway toward the degree.

You may earn a certificate of completion by successfully completing the required 22 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course Term</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>WLD151 Basic Arc Welding ......................</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>WLD156 Blueprint Reading and Sketching ......</td>
<td>5</td>
</tr>
<tr>
<td>Term 2</td>
<td>WLD152 Intermediate Arc Welding .............</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>WLD157 Introduction to Layout and Fabrication</td>
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</tr>
<tr>
<td>Term 3</td>
<td>WLD153 Advanced Arc Welding .................</td>
<td>4</td>
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</table>

MIG Welding Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $122; class fees, $396; universal fee, $336; equipment and supplies, $550; and certification test, $200 (optional). Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

This program combines hands-on training in the use of GMAW welding equipment with the associated coursework to develop the skill sets needed for success in the field. The program assists students in meeting the entry-level qualifications of the welding industry and prepares them to take the
Welding Fabrication Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $826; class fees, $2,115; universal fee, $2,160; equipment and supplies, $900; and certification test, $400 (optional). Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

As a graduate of the Welding Fabrication program, you may qualify for positions in business and industry such as machinery fabrication, structural fabrication, welding fitting and layout, automatic and semiautomatic welding, automatic flame cutter operation, millwright welding, plant maintenance, and quality control and development.

The program offers you a background in manufacturing materials, processes, and systems, including shear and press brake operation, blueprint reading, and shop drawing and layout. The curriculum includes written and oral communications and general education classes and emphasizes related scientific, mathematical, and general mechanical principles.

At the end of the third term, you may take a plate certification test. The fee for this test is determined by the number of students involved and the type of test.

You may earn an associate of applied science degree by successfully completing the required 90 credit hours with a grade of “C” or better in all courses.

American Society of Welding’s D1.1 Structural Welding Code Performance Qualification examination. This certificate is wholly contained within the Welding Fabrication AAS degree program and may serve as the first step in a career pathway toward the degree.

You may earn a certificate of completion by successfully completing the required 14 credit hours with a grade of “C” or better in all courses.

### Welding Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $562; class fees, $1,315; universal fee, $1,272; equipment and supplies, $750; and certification test, $400 (optional). Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

This program prepares you for a variety of positions in job specialty production and maintenance shops. Graduates may find work as MIG welders, arc welders, oxyacetylene welders, semiautomatic welding equipment operators, and TIG welders.

You may earn a certificate of completion by successfully completing the required 53 credit hours with a grade of “C” or better in all courses.
Wine Hospitality Operations Program

The program is designed to prepare students for supervisory positions in winery tasting rooms. Tasting rooms have emerged as a critical sales channel for local wineries seeking to maximize revenues by creating loyal clientele. Candidates for this certificate may have relevant experience in viticulture, winemaking, hospitality, and beverage management, and are seeking additional skills to fill the gap in their experience. This independent course of study was created by combining courses from both the Hospitality and Tourism Management (HTM) program and the Wine Studies (VMW) program.

Due to the diverse backgrounds of potential candidates, the program will have two flexible components allowing students to tailor their credential to their skill gaps. First, a cooperative work experience component of 6 credits will allow a student to select a worksite and to craft an internship specific to their learning objective. Second, the remainder of the credential can be complied from an extensive approved electives list that includes courses from both programs.

Students will learn about the history of wine, viticulture and wine-making techniques, local and international varietals, sensory evaluation of wine components and varietals, wine selling and marketing strategies, food and beverage operations management, special event planning, crafting memorable guest experiences, and wine appreciation.

For more information about this program, contact Eric Aebi 503.589.7994 eric.aebi@chemeketa.edu.

Program Outcomes

Students completing the Wine Hospitality Operations certificate should be able to:

• Demonstrate important skills for successful wine selling and marketing.
• Discuss the modern wine industry’s emergence from its historical antecedents.
• Identify food and wine combinations to maximize sensory experience.
• Explain the management processes in the hospitality industry under which profitability and return on investment are maximized.

Wine Hospitality Operations Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below (depending on elective choices) are books, up to $750; class fees, up to $1,500; universal fee, $846. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs. Students are responsible for costs related to CWE travel.

You may earn a certificate of completion by successfully completing the required 36 credit hours with a grade of “C” or better in all courses:

Course | Title | Credit Hours
--- | --- | ---
VMW280F | Wine Studies Internship | 6
| Wine Hospitality Operations Electives* | 30

*Wine Hospitality Operations electives (select 30 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTM105</td>
<td>Restaurant Operations</td>
<td>4</td>
</tr>
<tr>
<td>HTM107</td>
<td>Hospitality Cost Control</td>
<td>4</td>
</tr>
<tr>
<td>HTM125</td>
<td>Special Events Planning</td>
<td>4</td>
</tr>
<tr>
<td>HTM131</td>
<td>Customer Services</td>
<td>3</td>
</tr>
<tr>
<td>HTM138</td>
<td>Foods and Beverages: Gastronomy</td>
<td>4</td>
</tr>
<tr>
<td>HTM224</td>
<td>Catering and Banquets</td>
<td>5</td>
</tr>
<tr>
<td>VMW101</td>
<td>General Viticulture</td>
<td>3</td>
</tr>
<tr>
<td>VMW121</td>
<td>Introduction to Winemaking</td>
<td>3</td>
</tr>
<tr>
<td>VMW131</td>
<td>Wine Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>VMW132</td>
<td>Wines of the World</td>
<td>3</td>
</tr>
<tr>
<td>VMW134</td>
<td>Wines of the Pacific NW</td>
<td>3</td>
</tr>
<tr>
<td>VMW170</td>
<td>Selling and Marketing Wine</td>
<td>3</td>
</tr>
<tr>
<td>VMW232</td>
<td>Sensory Evaluation of Wine Varietals</td>
<td>3</td>
</tr>
<tr>
<td>VMW233</td>
<td>Sensory Evaluation of Wine Components</td>
<td>3</td>
</tr>
</tbody>
</table>

Wine Studies Program

go.chemeketa.edu/ag

Career opportunities in the wine industry are diverse, exciting, and rewarding. Chemeketa’s Wine Studies department offers one certificate and two AAS degrees to meet the present and future needs of the wine industry: Vineyard Management and Winemaking.

The College’s Wine Studies Program is located at Chemeketa Eola, and provides students with a unique hands-on education facilitated by the on-site vineyard, laboratory classroom, commercial winery, and tasting room.

For additional information about the Wine Studies program, contact the Megan Jensen at 503.584.7254

Within the Wine Studies program, students may achieve a certificate in Vineyard Operations or an Associates of Applied Science degree in Vineyard Management and/or Winemaking.

Program Outcomes

Students completing the Vineyard Operations certificate should be able to:

• Evaluate the potential of a site for vineyard development through soil and environmental analysis.

Program Outcomes

Students completing the Wine Hospitality Operations certificate should be able to:

• Demonstrate important skills for successful wine selling and marketing.
• Discuss the modern wine industry’s emergence from its historical antecedents.
• Identify food and wine combinations to maximize sensory experience.
• Explain the management processes in the hospitality industry under which profitability and return on investment are maximized.
• Perform skills necessary for the seasonal vineyard operations of pruning, disease and pest control, grapevine canopy management, and crop regulation.

• Prepare reports to track ripening data, vineyard pesticide applications, fertilizer requirements, and canopy measurements.

In addition to the certificate outcomes, students completing the Vineyard Management degree should be able to:

• Project timing of vineyard operations and make correct decisions on relevant grapevine management choices.

• Use knowledge of government regulations related to vineyard operations, OSHA rules, employment requirements, pesticide application postings, and field sanitation requirements.

• Use computer skills to track vineyard operations; prepare and use budget information.

• Research and develop a vineyard business management plan.

Students completing the Winemaking degree should be able to:

• Evaluate wine grape maturity and make harvest decisions for quality wine production, including sensory and chemical analysis of juice, and must and chemical adjustments.

• Perform wine grape processing, fermentation management, and wine processing practices, including operating and maintaining winery equipment from primary processing through bottling.

• Use chemical and sensory quality control analysis techniques and appropriate winery processing practices for the chemical, microbial, and physical stability of wines.

• Research and develop a winery facility, including winery design, layout, operational systems, process calculations, and equipment selection.

• Comply with government regulations for wine production, including licensing, operating a winery premise, recordkeeping, regulatory compliance, and health and safety programs.

For more information, contact the Megan Jensen at 503.584.7254

Vineyard Operations Certificate of Completion

In addition to tuition, estimated costs for students who complete the courses listed below are books, $1,500; class fees, $444; universal fee, $1008; differential fee, $420. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

Coursework for the Vineyard Operations certificate includes instruction and hands-on training in the Wine Studies program's on-site vineyard planted with cool climate grapes. Students will gain the basic knowledge and practical skills required for successful employment as a vineyard technician or for those wanting to establish a vineyard. Students must begin this program winter term.

For more information about this program, contact Megan Jensen at 503.584.7254.

You may earn a certificate of completion by successfully completing the required 42 credit hours with a grade of “C” or better in all courses.

Course Title Credit Hours
Winter Term
MTH095 Intermediate Algebra+ (or higher) ..........................4
VMW101 General Viticulture...............................................3
VMW114 Winter Vineyard Practices .................................4

Spring Term
VMW115 Spring Vineyard Practices..................................4
VMW261 Vine Physiology ....................................................4
VMW262 Vineyard Pest Management ...............................4

Summer Term
VMW116 Summer Vineyard Practices.................................4
VMW260 Vineyard Nutrition and Irrigation Management ...3
WR121 Academic Composition+ (or higher) .......................4

Fall Term
PSY101 Psychology of Human Relations+ (or higher) ........4
VMW117 Fall Vineyard Practices ......................................4

Vineyard Management Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $3,362; class fees, $743; universal fee, $2,184; differential fee, $10. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

Rapid growth in the region’s wine industry, as well as national demand for qualified vineyard managers, has created a need for a wine industry workforce that is grounded in basic principles and creative in tackling challenges.

Students in this program take classes in chemistry, plant science along with a variety of electives, to create a solid educational foundation from which to begin a career in the Wine Industry.

For more information about this program, contact Megan Jensen 503.584.7254.

You may earn an associate of applied science degree by successfully completing required 91 credit hours with a grade of “C” or better in all courses.

Course Title Credit Hours
Term 1
CIS101 Computing Concepts (or higher) ............................3
MTH095 Intermediate Algebra+ (or higher) .........................4
VMW101 General Viticulture............................................3
VMW122 Introduction to Winemaking ................................3

Term 2
SOIL205 Soil Science .................................................4
VMW114 Winter Vineyard Practices ..................................4
VMW222 Science of Winemaking ....................................4

Term 3
VMW115 Spring Vineyard Practices ..................................4
VMW233 Sensory Analysis of Wine Components ................3
VMW261 Vine Physiology ....................................................4
VMW262 Vineyard Pest Management ................................4

Term 4
COMM111 Fundamentals of Oral Communication (or higher) ........3
VMW116 Summer Vineyard Practices ..................................4
VMW260 Vineyard Nutrition and Irrigation Management ...3
VMW280C Wine Studies Internship .....................................3
Students in the Winemaking program take classes in chemistry, employment in this field is only expected to grow. with the specific training and skillset required for successful is growing at a double-digit rate. The need for workers Oregon’s 1,000+ vineyards and 725 wineries, and the industry has really come into its own over the past 50 years. in Oregon can be traced back to before statehood, the industry has really come into its own over the past 50 years. The Northwest section of Oregon wine country is celebrated for its cool-climate grape varieties, including Pinot Gris, Chardonnay, and especially, Pinot Noir. Though winemaking in Oregon can be traced back to before statehood, the industry has really come into its own over the past 50 years. Presently, there are approximately 14,000 wine-related jobs at Oregon’s 1,000+ vineyards and 725 wineries, and the industry is growing at a double-digit rate. The need for workers with the specific training and skillset required for successful employment in this field is only expected to grow. Students in the Winemaking program take classes in chemistry, biology, and viticulture, along with instruction and hands-on training in the basic knowledge and technical skills of wine production. Students also participate a wine related internship where they have the opportunity to work at a work-site to gain specific skills and strengthen their professional network.

For more information about this program, contact Megan Jensen at 503.584.7254.

You may earn an associate of applied science degree by successfully completing the required 90 credit hours with a grade of “C” or better in all courses.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Term 1</td>
<td></td>
</tr>
<tr>
<td>CIS101</td>
<td>Computing Concepts (or higher) .......... 3</td>
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<td>or</td>
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<tr>
<td>CA100</td>
<td>Beginning Computing  .......... 3</td>
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<td>or</td>
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<tr>
<td>MTH095</td>
<td>Intermediate Algebra+ (or higher) .......... 4</td>
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<td>or</td>
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<tr>
<td>VMW122</td>
<td>Introduction to Winemaking  .......... 3</td>
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<td>or</td>
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<tr>
<td>VWM131</td>
<td>Wine Appreciation  .......... 3</td>
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<tr>
<td>Term 2</td>
<td></td>
</tr>
<tr>
<td>CH110</td>
<td>Foundations of General, Organic, and Biochemistry  .......... 5</td>
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<td>or</td>
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<tr>
<td>CH121/122</td>
<td>College Chemistry 1/2  .......... 5</td>
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<td>or</td>
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<tr>
<td>CH123</td>
<td>College Chemistry 3  .......... 5</td>
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<td>or</td>
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<tr>
<td>VMW223</td>
<td>Fundamentals of Chemistry for Winemaking  .......... 5</td>
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<td>or</td>
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<tr>
<td>BI230</td>
<td>Introduction to Microbiology  .......... 4</td>
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<tr>
<td>Term 3</td>
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<tr>
<td>PSY101</td>
<td>Psychology of Human Relations+ (or higher) .......... 4</td>
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<tr>
<td>WR121</td>
<td>Academic Composition+ (or higher) .......... 4</td>
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<tr>
<td>Term 4</td>
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<tr>
<td>VWM134</td>
<td>Wines of the Pacific Northwest  .......... 3</td>
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<td>or</td>
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<tr>
<td>VWM222</td>
<td>Science of Winemaking  .......... 4</td>
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<td>or</td>
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<tr>
<td>VMS244</td>
<td>Wine Production  .......... 6</td>
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<tr>
<td>Term 5</td>
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<tr>
<td>VWM224</td>
<td>Chemical Analysis of Must and Wine  .......... 4</td>
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<td>or</td>
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<tr>
<td>VWM233</td>
<td>Sensory Evaluation of Wine Components  .......... 3</td>
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<td>or</td>
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<tr>
<td>VWM245</td>
<td>Wine Clarification and Stabilization  .......... 4</td>
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<td>or</td>
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<tr>
<td>Winemaking Elective*  .......... 3</td>
<td></td>
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<tr>
<td>Term 6</td>
<td></td>
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<tr>
<td>VWM170</td>
<td>Selling and Marketing Wine  .......... 3</td>
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<tr>
<td>or</td>
<td></td>
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<tr>
<td>VWM213</td>
<td>Selling and Marketing Wine  .......... 3</td>
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<tr>
<td>or</td>
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<tr>
<td>VWM246</td>
<td>Aging, Filtration and Bottling  .......... 4</td>
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<td>or</td>
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<tr>
<td>VWM254</td>
<td>Winery Process Planning and Design  .......... 3</td>
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<tr>
<td>Term 7</td>
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<tr>
<td>VWM280</td>
<td>Wine Studies Internship  .......... 9</td>
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<td>or</td>
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<tr>
<td>VWM290</td>
<td>Wine Studies Capstone  .......... 4</td>
</tr>
<tr>
<td>+Meets related instruction requirement, see page 48. For subject areas, see page 64.</td>
<td></td>
</tr>
</tbody>
</table>

*Vineyard Management electives (select 6 credit hours):

- BA223 Principles of Marketing (or higher) .......... 4  
- BI101 General Biology: Ecology and Diversity (or higher) .......... 4  
- BI131 Environmental Science 1 (or higher) .......... 4  
- CA122 QuickBooks-Computerized Bookkeeping  .......... 3          
- CH112 College Chemistry 3 (or higher) .......... 5          
- CIS125A Access - Database  .......... 3          
- CIS125E Excel-Workbooks  .......... 4          
- CIS178I Internet and World-Wide Web  .......... 3          
- HOR218 Plant Propagation  .......... 4          
- SPN101 First Year Spanish, Term 1 (or higher) .......... 4          
- VWM102 Wine Industry Exploration  .......... 3          
- VWM132 Wines of the World  .......... 3          
- VWM134 Wines of the Pacific Northwest  .......... 3          
- VWM170 Selling and Marketing Wine  .......... 3          
- VWM198A-D Independent Studies  .......... 1-4          
- VWM232 Sensory Evaluation of Wine Varietals  .......... 3          
- VWM244 Wine Production  .......... 6          
- VWM245 Wine Clarification and Stabilization  .......... 4          
- VWM246 Wine Aging, Filtration, and Bottling  .......... 4          
- VWM254 Winery Process Planning and Design  .......... 3          
- WLD151 Basic Arc Welding  .......... 5          

Winemaking Associate of Applied Science Degree

In addition to tuition, estimated costs for students who complete the courses listed below are books, $3,141; class fees, $1,004; universal fee, $2,160; differential fee, $900. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

The Northwest section of Oregon wine country is celebrated for its cool-climate grape varieties, including Pinot Gris, Chardonnay, and especially, Pinot Noir. Though winemaking in Oregon can be traced back to before statehood, the industry has really come into its own over the past 50 years. Presently, there are approximately 14,000 wine-related jobs at Oregon’s 1,000+ vineyards and 725 wineries, and the industry is growing at a double-digit rate. The need for workers with the specific training and skillset required for successful employment in this field is only expected to grow.
*Winemaking electives (select 3 credit hours):

- BA101 Introduction to Business (or higher) ................. 4
- BA223 Principles of Marketing .................................. 4
- BI101 General Biology: Ecology and Diversity (or higher) ............................................................... 4
- CA220 QuickBooks-Computerized Bookkeeping .......... 3
- CH117 Chemistry in the Kitchen ................................. 4
- CH121 College Chemistry 1 (or higher) ....................... 5
- CH122 College Chemistry 2 (or higher) ....................... 5
- CH123 College Chemistry 3 (or higher) ....................... 5
- CIS125A Access - Database ........................................ 3
- CIS125E Excel-Workbooks ............................................. 4
- CJ178I Internet and World-Wide Web ......................... 3
- SPN101 First Year Spanish, Term 1 ......................... 4
- SPN102 First Year Spanish, Term 2 ......................... 4
- SPN103 First Year Spanish, Term 3 ......................... 4
- VMW102 Wine Industry ............................................. 3
- VMW105 Spanish in the Vineyard ............................. 3
- VMW114 Winter Vineyard Practices ............................ 4
- VMW115 Spring Vineyard Practices ............................ 4
- VMW116 Summer Vineyard Practices ........................... 4
- VMW117 Fall Vineyard Practices .................................. 4
- VMW132 Wines of the World ....................................... 3
- VMW134 Wines of the Pacific Northwest .................... 3
- VMW198A-D Independent Studies ............................. 1–4
- VMW232 Sensory Evaluation of Wine Varietals ............... 3
- VMW260 Vineyard Nutrition and Irrigation Management .... 3
- VMW261 Vine Physiology ............................................. 4
About these course descriptions

This list of course descriptions reflects the diversity and scope of the many credit courses Chemeketa currently offers. Some of our current courses may not be included here as the college may add classes after this catalog is published.

The courses are listed alphabetically by prefix.

You will find prerequisites specified in many of these course descriptions. You must meet these conditions before you enroll in a course. It is your responsibility as a student to fulfill the prerequisite.

Some prerequisites indicate that you must complete certain preparatory courses or must have the consent of the course instructor. To gain consent, meet with the instructor. Consent is based on the instructor’s assessment of your readiness to enroll in the course.

Consult with Chemeketa’s Advising and First Year Programs department or a faculty program advisor for transfer information.

Note 1: The letters, F, W, Sp, and Su near the end of a course description indicate the term (fall, winter, spring, summer) the course is usually offered. For information on when and where classes meet, consult the Schedule of Classes available each term at chemeketa.edu/classes, or access through your MyChemeketa account if you are a registered student.

Note 2: Courses indicating “Offered as needed” - Contact Advising and First Year Programs department for assistance.

Note 3: The letters IL and CL at the end of a course description indicate courses which meet the AAOT requirements for information literacy and cultural literacy.

Course textbook information

Please check with the Bookstore to determine required textbooks and cost (information required for financial aid).

The online searchable schedule of classes designates classes with course materials that are low cost, $40 or less, or no cost. Low-cost or no-cost course material designations will be displayed in class search with a symbol in the next to last column. Low cost and no cost. Currently these designations will not appear in the printed schedule.

How courses are listed

The following course prefixes describe the primary intent of the courses offered:

Developmental Courses

Developmental courses numbered less than 50 do not meet the requirements of the AA/OT, AAS, AS/OT-BUS, AS/OT-CS, or AGS degrees.

MTH: Mathematics
RD: Reading
SSP: Study Skills Program
WR: Writing

Career and Technical Courses (CTE)

Many career and technical courses are applicable to the baccalaureate degree. Please contact your school of choice for additional information.

AH: Allied Health
ANES Anesthesia Technology
APR: Apprenticeship
AUM: Automotive Technology
BA: Business Administration (Accounting, Business Management, and Business Technology)
BLD: Building Inspection Technology
BT: Business Technology
CA: Computer Applications
CAM: Computer-Aided Manufacturing
CIS: Computer Information Systems
CJ: Criminal Justice, Corrections, and Law Enforcement
CVL: Civil Technology
DEN: Dental Assisting
DRF: Drafting Technology
DSL Diesel Technology
ECE: Early Childhood Education
ELT: Electronics Technologies/Robotics
EMT: Emergency Medical Technology
ES: Emergency Services
FE: Field Experiences
FRP: Fire Protection Technology
HDF: Human Development and Family Studies
HEM: Hemodialysis Technician
HM: Health Information Management
HOR: Horticulture
HS: Human Services
HTM: Hospitality and Tourism Management
MED: Medical Assisting
MT: Industrial Technology
NUR: Nursing
PHM: Pharmacy Technician/Pharmacy Management
PLP: Portfolio for Prior Learning
RNW: Renewable Energy Management
SLP: Speech-Language Pathology Assistant
SOIL: Soil
ST: Skills Training (Occupational)
VC: Visual Communications
VMW: Vineyard Management/Winemaking
WFB: Welding Fabrication
WHO: Wine Hospitality Operations
WLD: Welding

**Lower Division Collegiate Courses**

A number below 100 indicates a support course, which is usually not transferable to a BA-granting institution.

ART: Art
ASL: American Sign Language
ATH: Anthropology
BA: Business Administration (ASOT-Business: BA101, BA211, BA212, BA213)
BI: Biology
CG: Counseling and Guidance
CH: Chemistry
CHN: Chinese
CIS: Computer Information Systems
CLA: Chicano/Latino Studies
COMM: Communication
CS: Computer Science
EC: Economics
ED: Education
EGR: Engineering
ENG: English
ENL: English as a Non-Native Language
ENT: Entrepreneurship
FA: Film Arts
FLM: Filmmaking
FR: French
FYE: First Year Experience
GE: General Engineering
GEG: Geography
GEO: Geology
GS: General Science
HE: Health Education
HPE: Health and Physical Education
HST: History
HUM: Humanities
JNL: Journalism
JPN: Japanese
LING: Linguistics
MTH: Mathematics
MUP: Musical Performance
MUS: Music
NFM: Nutrition and Food Management
PE: Physical Education
PH: Physics
PHE: Physical Education
PFL: Philosophy
PS: Political Science
PSY: Psychology
RD: Reading
REL: Religious Studies
RUS: Russian
SLD: Student Leadership Development
SOC: Sociology
SPN: Spanish
SSC: Social Science
TA: Theatre Appreciation
WR: Writing
WS: Women’s Studies
ANES102 Anesthesia Equipment: Principles and Application 4 class hr/wk, 4 cr.
Learn and handle basic and complex anesthesia equipment and airway management devices. Create algorithms and strategies for preparation and use. Practice set up and troubleshoot routine and complex equipment. Prerequisite: ANES104 with a grade of C or better; and concurrent enrollment in ANES130 and ANES105; or consent of instructor. Sp
ANES103 Anesthesia Technology Lab 1 9 lab hr/wk, 3 cr.
Learn and put into practice basic anesthesia competencies including but not limited to: basic airway management, anesthesia machine daily checkout and troubleshooting, basic anesthesia equipment set up maintenance and troubleshooting. Includes patient care skills of positioning and dialogue IV set up and placement, placement and troubleshooting, basic physiological monitoring, assisting the anesthesiologist, intubation strategies, and rapid response to airway management crisis. Demonstrate anesthesia machine checkout, working in the operating room (OR) environment including appropriate wear, personal protective equipment, interpersonal skills, ergonomics, and basic pharmacology. Draw up drugs and sharps safety, the OR turn over, equipment identification handling and use, and regional anesthesia theory and practice. Corequisite: concurrent enrollment ANES101, ANSE112, and PHM243; or consent of instructor. F
ANES104 Anesthesia Technology Lab 2 12 lab hr/wk, 4 cr.
Build on competencies learned during Anesthesia Lab 1 and practice advanced Anesthesia competencies. Including but not limited to: advanced airway management, advanced anesthesia machine troubleshooting, advanced anesthesia equipment set up maintenance and troubleshooting, advanced physiological monitoring including arterial lines, central and pulmonary artery lines, and assisting the anesthesiologist. Demand strategies for intubation and rapid response to airway management crisis, and care and use of emergency airway management devices. Set up maintenance and troubleshooting of hemodynamic monitoring equipment. Prerequisite: ANES103 with a grade of C or better; or consent of instructor. Corequisite: BI234 and PHM244. W
ANES105 Anesthesia Technology Lab 3 12 lab hr/wk, 4 cr.
Builds on competencies learned during Anesthesia Lab 2 and practice advanced anesthesia competencies. Includes but not limited to: advanced airway algorithms, advanced troubleshooting, advanced anesthesia equipment set up maintenance and troubleshooting, advanced rapid response to airway management crisis, care and use of emergency airway management devices, and hemodynamic monitoring equipment set up maintenance and troubleshooting. Prerequisite: ANES104 with a grade of C or better; and concurrent enrollment in ANES130 and ANES102; or consent of instructor. W
ANES112 Operating Room Environments 2 class hr/wk, 2 cr.
Understand the layout and ergonomics of the operating room. Demonstrate operating room attire and protocols with regard to hand hygiene and infection control. Demonstrate the physiology of patient positioning and operating table equipment. Corequisite: ANES101, ANES103, and PHM243; or consent of instructor. F
ANES130 ACLS/PALS with EKG Analysis 4 class hr/wk, 4 cr.
Enhance skills in treating adult victims of cardiac arrest or other cardiopulmonary emergencies, while earning their American Heart Association ACLS (AHA ACLS) for Healthcare Providers Course Completion Card. Enables Anesthesia Technology students to develop the knowledge and skills necessary to better recognize and treat critically ill infants and children. Corequisite: ANES105 and ANES102. Sp
ANES203 Anesthesia Technology Lab 4 12 lab hr/wk, 4 cr.
Builds on competencies learned during Anesthesia Technology Lab 3 and practice advanced anesthesia competencies. Including but not limited to: blood management, cell salvage, balloon pump management and care, advanced rapid response to airway management crisis, care and use of emergency airway management devices, and hemodynamic monitoring equipment set up maintenance and troubleshooting. Prerequisite: ANES105 with a grade of C or better; and concurrent enrollment in ANES102. Corequisite: ANES210. F
ANES204 Anesthesia Technology Lab 5 12 lab hr/wk, 4 cr.
Build on competencies learned during all previous Anesthesia Labs and practice advanced anesthesia competencies. Prerequisite: ANES203 with a grade of C or better; or consent of instructor. Corequisite: ANES211. W
ANES210 Anesthesia Technology Clinical Practicum 1
24 lab hr/wk, 8 cr.
Demonstrate practical applications of their knowledge and skills by application of clinical skills and work ethic during the anesthesia technologist clinical rotation. Practice job search skills for an entry-level position as an anesthesia technologist. **Prerequisite:** ANES105 with a grade of C or better; and concurrent enrollment in ANES203; or consent of instructor. F

ANES211 Anesthesia Technology Clinical Practicum 2
24 lab hr/wk, 8 cr.
Second course of a three course practicum. Demonstrate the practical applications of their knowledge and skills by application of clinical skills and work ethic during the anesthesia technologist clinical rotation. Practice job search skills for an entry-level position as an anesthesia technologist. **Prerequisite:** ANES210 with a grade of C or better; and consent of instructor. Corequisite: ANES203. W

ANES212 Anesthesia Technology Clinical Practicum 3
27 lab hr/wk, 9 cr.
Third course of a three course sequence. Apply knowledge of clinical skills and work ethic during the anesthesia technologist clinical rotation. Practice job search skills for an entry-level position as an anesthesia technologist. **Prerequisite:** ANES211 with a grade of C or better; or consent of instructor. Corequisite: ANES215. Sp

ANES215 Anesthesia Technology Certification Exam Prep
3 class hr/wk, 3 cr.
Review the core concepts of the Anesthesia Technician program with an emphasis on preparation and strategies for success in the national certification exam. Participate in mock exams and consider relevant content and concepts. Prepare study and revision guides. **Prerequisite:** ANES211 with a grade of C or better; and concurrently enrolled in ANES212; or consent of instructor. Sp

**Apprenticeship**

APR101 Trade Skills Fundamentals
3 class and 3 lab hr/wk, 4 cr.
Introduces the apprenticeship industry and the requirements necessary to enter an apprenticeship program. Includes employment and industry opportunities, and base construction and maintenance skills used in various crafts. Examines concepts in safety, Covers use of trade vocabulary, math, hand and power tools, blueprint reading, basic rigging, and basic principles of resume writing. **Offered as needed.**

APR116A Millwright Apprenticeship-Basic Electricity 1A
4 class and 2 lab hr/wk, 5 cr.
Covers basic electrical theory, safety procedures, electrical equipment, installation, electrical schematics, electricity measurements, and the industrial application of AC/DC motors. **Offered as needed.**

APR153A Electrician Apprenticeship Fundamentals
4 class and 2 lab hr/wk, 5 cr.
Provides training for the inside wire electrician apprentice. Includes trade history and concepts, trade math, basic electrical DC theory, and an introduction to the National Electrical Code. **Prerequisite:** MTH070 with a grade of C or better; or consent of instructor. F

APR153B Electrician Apprenticeship AC/DC Circuits
4 class and 2 lab hr/wk, 5 cr.
Provides training for the inside wire electrician apprentice. Covers mathematical formulas of equations, basic AC theory, use of test equipment, and applicable National Electrical Code. Includes safety procedures, first aid, and CPR. **Prerequisite:** APR153A with a grade of C or better; or consent of instructor. W

APR153C Electrician Apprenticeship Measurements
2 class and 1 lab hr/wk, 3 cr.
Covers first year, Area II, of the inside wireman apprenticeship-related training. Includes direct current (DC) and alternating current (AC) electrical theory, practical residential wiring, and related National Electrical Code study. **Prerequisite:** APR153B with a grade of C or better; or consent of instructor. Sp

APR153D Electrician Apprenticeship Theory
4 class and 2 lab hr/wk, 5 cr.
Provides training for the inside wire electrician apprentice. Includes requirements for wiring and installation of electrical devices, auxiliary gutters, raceways, fuses and over-current devices, and wire devices. Covers hazardous locations, busways, residential calculation, and applicable National Electrical Code. **Prerequisite:** APR153C or consent of instructor. F

APR153E Electrician Apprenticeship Wiring and Print Reading
4 class and 2 lab hr/wk, 5 cr.
Provides training for the inside wire electrical apprentice. Includes requirements for wiring and installation of electrical devices, auxiliary gutters, raceways, fuses and over-current devices, and wire devices. Covers hazardous locations, busways, residential calculation, and applicable National Electrical Code. **Prerequisite:** APR153D with a grade “C” or better; or consent of instructor. W

APR153F Electrician Apprenticeship Residential Installation
2 class and 1 lab hr/wk, 3 cr.
Includes requirements for wiring and installation of electrical devices, auxiliary gutters, raceways, fuses, and over-current devices. Covers hazardous locations, busways, residential calculation, and application of National Electrical Code sections for inside wire electrician apprentices. **Prerequisite:** APR153E with a grade “C” or better; or consent of instructor. Sp

APR156A HVAC/R Apprenticeship Fundamentals 1
4 class and 2 lab hr/wk, 5 cr.
Focuses on general construction safety, use of hand and power tools, and construction math using whole numbers, common fractions, decimals, ratio proportion, percent, geometry, and math applications in measurement. Introduces basic electricity concepts. Designed for Oregon State recognized apprentices working in the HVAC/R trade. F

APR156B HVAC/R Apprenticeships Fundamentals 2
4 class and 2 lab hr/wk, 5 cr.
Focuses on developing a basic understanding of heating, cooling, and associated piping. Designed for Oregon State recognized apprentices working in the HVAC/R trade. **Prerequisite:** APR156A with a grade “C” or better; or consent of instructor. W

APR156C HVAC/R Apprenticeship Fundamentals 3
4 class and 2 lab hr/wk, 5 cr.
Focuses on soldering and brazing, bending and flaring tubing, and steel piping. Designed for Oregon State recognized apprentices working in the HVAC/R trade. **Prerequisite:** APR156B with a grade “C” or better; or consent of instructor. Sp

**Allied Health**

See also CH—Chemistry, and HM—Health Information Management

AH115 Healthcare Career Strategies
2 class hr/wk, 2 cr.
Presents an applied approach to the introduction of health careers. Includes health career options and preparation requirements, professional and ethical behavior, teamwork and leadership, customer service, health promotion, and wellness. Integrates academic success strategies with healthcare applications. Recognize life-threatening emergencies and provide basic life support. F, W, Sp, Su
APR156D HVAC/R Apprenticeship Intermediate 1
4 class and 2 lab hr/wk, 5 cr.
Focuses on the principals of AC power, functionality of refrigeration compressors, characteristics and use of refrigerants and oils, leak detection, evacuation, recovery, and charging refrigerant systems. Designed for Oregon State recognized apprentices working in the HVAC/R trade. Prerequisite: APR156C with a grade of C or better; or consent of instructor. W

APR156E HVAC/R Apprenticeship Intermediate 2
4 class and 2 lab hr/wk, 5 cr.
Focuses on various types of metering devices and their effects, operation fundamentals of heat pumps, inspection and maintenance of HVAC/R systems, principles of combustion, and various venting types and designs. Designed for Oregon State recognized apprentices working in the HVAC/R trade. Prerequisite: APR156E with a grade of C or better; or consent of instructor. W

APR156F HVAC/R Apprenticeship Intermediate 3
4 class and 2 lab hr/wk, 5 cr.
Focuses on HVAC ducting types and principles; various types and designs of commercial airstide systems, indoor air quality design and application, and hydronic systems. Designed for Oregon State recognized apprentices working in the HVAC/R trade. Prerequisite: APR156D with a grade of C or better; or consent of instructor. W

APR158A Plumber Apprenticeship Fundamentals
4 class and 2 lab hr/wk, 5 cr.
Introduces related training for the plumber apprentice in trade theory and practices. Includes an introduction to the trade, basic math, related science, 2017 Oregon Plumbing Specialty Code (OPSC), blueprint reading, and safety. Prerequisite: Registered apprentice; or consent of instructor. F

APR158B Plumber Apprenticeship Math and Print Reading
4 class and 2 lab hr/wk, 5 cr.
Continues related training for the plumber apprentice to study theory and trade practices. Includes mathematics, installation practices, print reading, related 2017 Oregon Plumbing Specialty Code (OPSC), health and safety, sanitary drainage, and venting. Prerequisite: APR158A with a grade of C or better; or consent of instructor. W

APR158C Plumber Apprenticeship Pipe Sizing
3 class hr/wk, 3 cr.
Continues related training for the plumber apprentice to study theory and trade practices. Includes mathematics, installation practices, related 2017 Oregon Plumbing Specialty Code (OPSC), health and safety, blueprint reading, and gas piping. Prerequisite: APR158B with a grade of C or better; or consent of instructor. Sp

APR158D Plumber Apprenticeship Basic Installation
4 class and 2 lab hr/wk, 5 cr.
Continues related training and trade practices for the plumber apprentice. Includes installation and related 2017 Oregon Plumbing Specialty Code (OPSC), safety, rigging and hoisting, welding and brazing, and blueprint reading. Prerequisite: APR158C with a grade of C or better; or consent of instructor. F

APR158E Plumber Apprenticeship Occupancy
4 class and 2 lab hr/wk, 5 cr.
Continues theory and trade practices for the plumber apprentice. Includes single occupancy installation and Oregon Plumbing Specialty Code (OPSC), trade math calculations and related sources, properties of water, pressure and testing, and single occupancy. Prerequisite: APR158D with a grade of C or better; or consent of instructor. W

APR158F Plumber Apprenticeship Advanced Waste Water Systems
3 class hr/wk, 3 cr.
Covers theory and trade practices for the plumber apprentice. Includes installation standards (I.S.) and reviews. Focuses on 2017 Oregon Plumbing Specialty Code (OPSC). Prerequisite: APR158E with a grade of C or better; or consent of instructor. Sp

APR166A Sheet Metal Apprenticeship Fundamentals of Layout
4 class and 2 lab hr/wk, 5 cr.
Provides training for the inside wire electrical apprentice. Covers applied electrical theory, residential and commercial wiring practices, busways, motor fundamentals application, and the National Electrical Code. Prerequisite: APR153F with a grade of C or better; or consent of instructor. F

APR166B Sheet Metal Apprenticeship Fundamentals of Drawings
4 class and 2 lab hr/wk, 5 cr.
Focuses on HVAC ducting types and principles; various types and designs of commercial airstide systems, indoor air quality design and application, and hydronic systems. Designed for Oregon State recognized apprentices working in the HVAC/R trade. Prerequisite: APR156D with a grade of C or better; or consent of instructor. W
APR253I Electrician Apprenticeship Fiber Optics
2 class and 1 lab hr/wk, 3 cr.
Covers applied electrical theory, residential and commercial wiring practices, busways, and motor fundamentals. Applies National Electrical Code for inside wire electrician apprentices. **Prerequisite:** APR253H with a grade of C or better; or consent of instructor. F

APR253J Electrician Apprenticeship Math/Test Equipment
4 class and 2 lab hr/wk, 5 cr.
Offers related training for the inside wire electrical apprentice. Includes trade history, safety and first aid, blueprint reading, commercial and residential calculations, wiring methods, related theory, and applicable National Electrical Code. **Prerequisite:** APR253J with a grade of C or better; or consent of instructor. F

APR253K Electrician Apprenticeship Voltage
4 class and 2 lab hr/wk, 5 cr.
Offers training for the inside wire electrical apprentice. Includes a thorough review of the National Electrical Code publications. Focuses on theory and application of motor controls, solid state fundamentals, special termination, layout, hazardous locations, and transformer locations. **Prerequisite:** APR253K with a grade of C or better; or consent of instructor. W

APR253L Electrician Apprenticeship Code and Test Preparation
2 class and 1 lab hr/wk, 3 cr.
Covers a thorough review of the National Electrical Code books for the inside wire electrician apprentice. Includes theory and application of motor controls, solid state fundamentals, special termination, layout, hazardous locations, and transformer locations. **Prerequisite:** APR253L with a grade of C or better; or consent of instructor. Sp

APR256G HVAC/R Apprenticeship Intermediate 4
4 class and 2 lab hr/wk, 5 cr.
Focuses on operational sequences of HVAC controls, basic refrigeration concepts, and compressor replacement. Designed for Oregon State recognized apprentices working in the HVAC/R trade. **Prerequisite:** APR156F with a grade of C or better; or consent of instructor. F

APR256H HVAC/R Apprenticeship Intermediate 5
4 class and 2 lab hr/wk, 5 cr.
Focuses on understanding the sequence of operations for heat pumps, gas and oil furnaces, and HVAC accessories. Designed for Oregon State recognized apprentices working in the HVAC/R trade. **Prerequisite:** APR256G with a grade of C or better; or consent of instructor. W

APR256I HVAC/R Apprenticeship Welding
4 class and 2 lab hr/wk, 5 cr.
Focuses on identifying variable refrigerant flow, hydronic and steam heating systems; troubleshooting retail refrigeration systems; and the importance of appropriate customer relation skills. Designed for Oregon State recognized apprentices working in the HVAC/R trade. **Prerequisite:** APR256I with a grade of C or better; or consent of instructor. Sp

APR256J HVAC/R Apprenticeship Advanced 1
4 class and 2 lab hr/wk, 5 cr.
Focuses on energy conservation methods and building management equipment, as well as indoor air quality and water treatment. Designed for Oregon State recognized apprentices working in the HVAC/R trade. **Prerequisite:** APR256J with a grade of C or better; or consent of instructor. F

APR256K HVAC/R Apprenticeship Advanced 2
4 class and 2 lab hr/wk, 5 cr.
Focuses on air balancing; procedures for system startup and shutdown; interpreting industry drawings and specifications; system design; and LEB test prep. Designed for Oregon State recognized apprentices working in the HVAC/R trade. **Prerequisite:** APR256K with a grade of C or better; or consent of instructor. W

APR256L HVAC/R Apprenticeship Advanced 3
4 class and 2 lab hr/wk, 5 cr.
Focuses on commercial and industrial refrigeration; alternative heating and cooling systems; and crew leadership. Designed for Oregon State recognized apprentices working in the HVAC/R trade. **Prerequisite:** APR255K with a grade of C or better; or consent of instructor. Sp

APR258G Plumber Apprenticeship Residential Installation
4 class and 2 lab hr/wk, 5 cr.
Continues training for the plumber apprentice in trade theory and practices. Includes installation of residential and commercial fixtures and appliances, use of mathematics related to gas and pipe sizing, 2017 Oregon Plumbing Specialty Codes (OPSC), related science, and blueprint reading. **Prerequisite:** APR158F with a grade of C or better; or consent of instructor. F

APR258H Plumber Apprenticeship Commercial Installation
4 class and 2 lab hr/wk, 5 cr.
Continues related training for the plumber apprentice in trade theory and practices. Includes commercial installation practices, related applied math and science, OSHA, and 2017 Oregon Plumbing Specialty Code (OPSC). **Prerequisite:** APR258H with a grade of C or better; or consent of instructor. W

APR258I Plumber Apprenticeship Code
3 class hr/wk, 3 cr.
Covers theory and trade practices for the plumber apprentice. Focuses on 2017 Oregon Plumbing Specialty Code (OPSC). Includes installing fixtures and appliances, reading blueprints, and interpreting plumbing code. **Prerequisite:** APR258I with a grade of C or better; or consent of instructor. Sp

APR258J Plumber Apprenticeship Industrial Installation
4 class and 2 lab hr/wk, 5 cr.
Continues training for the plumber apprentice in trade theory and practices. Includes installation practices emphasizing industrial and institutional systems and service, blueprints of drainage and venting and special waste systems, mathematics of volume and pipe sizing, safety and sanitation, and applicable 2017 Oregon Plumbing Specialty Code (OPSC). **Prerequisite:** APR258J with a grade of C or better; or consent of instructor. F

APR258K Plumber Apprenticeship Basic Waste Water Systems
4 class and 2 lab hr/wk, 5 cr.
Continues training for the plumber apprentice in trade theory and practices. Covers water supply protection, breaker valve assembly, heating systems, science of hydraulics, pumps and system performance and maintenance, shop and isometric drawings of systems and special components, and 2017 Oregon Plumbing Specialty Code (OPSC). Includes an examination review. **Prerequisite:** APR258K with a grade of C or better; or consent of instructor. W
APR258L Plumber Apprenticeship Code and Test Prep
3 class hr/wk, 3 cr.
Prerequisite: APR258K with a grade of C or better; or consent of instructor. Sp

APR266F Sheet Metal Apprenticeship Applied Math
4 class and 2 lab hr/wk, 5 cr.
Provides related training materials and skill development consistent with the minimum requirements of the sheet metal trade. Includes shop production and organization, estimating, duct and fitting design, field measuring and making fittings, and blow pipe principles. Prerequisite: APR166E with a grade of C or better; or consent of instructor. W

APR266G Sheet Metal Apprenticeship Triangulation and Fiberglass
4 class and 2 lab hr/wk, 5 cr.
Examines concepts of HVAC fittings. Includes shop production and organization, estimating, duct and fitting design, field measuring and making fittings, and blow pipe principles. Prerequisite: APR266F with a grade of C or better; or consent of instructor. W

APR266H Sheet Metal Apprenticeship Calculator Layout
4 class and 2 lab hr/wk, 5 cr.
Focuses on the use of the hand-held calculator to perform mathematical operations. Prerequisite: APR266F with a grade of C or better; or consent of instructor. Sp

APR266J Sheet Metal Apprenticeship Duct Sizing
4 class and 2 lab hr/wk, 5 cr.
Examines concepts of HVAC fitting size. Includes shop production and organization, estimating, duct and fitting design, field measuring and making fittings, and blow pipe principles. Prerequisite: APR266J with a grade of C or better; or consent of instructor. W

APR266K Sheet Metal Apprenticeship Job Site Management
4 class and 2 lab hr/wk, 5 cr.
Examines concepts of HVAC fitting size. Includes shop production and organization, estimating, duct and fitting design, field measuring and making fittings, and blow pipe principles. Prerequisite: APR266J with a grade of C or better; or consent of instructor. Sp

ART116 Basic Design: Color
2 class and 4 lab hr/wk, 4 cr.
Examines concepts of HVAC fitting size. Includes shop production and organization, estimating, duct and fitting design, field measuring and making fittings, and blow pipe principles. Prerequisite: APR266J with a grade of C or better; or consent of instructor. F, W, Sp, Su

ART117 3D Design: Construct + Recycle
2 class and 4 lab hr/wk, 4 cr.
Examines concepts of HVAC fitting size. Includes shop production and organization, estimating, duct and fitting design, field measuring and making fittings, and blow pipe principles. Prerequisite: APR266J with a grade of C or better; or consent of instructor. F, W, Sp, Su

ART118 Digital Design and Color
2 class and 4 lab hr/wk, 4 cr.
Examines concepts of HVAC fitting size. Includes shop production and organization, estimating, duct and fitting design, field measuring and making fittings, and blow pipe principles. Prerequisite: APR266J with a grade of C or better; or consent of instructor. F, W, Sp, Su

ART120 Digital Media Time Design
2 class and 4 lab hr/wk, 4 cr.
Examines concepts of HVAC fitting size. Includes shop production and organization, estimating, duct and fitting design, field measuring and making fittings, and blow pipe principles. Prerequisite: APR266J with a grade of C or better; or consent of instructor. F, W, Sp, Su

ART101 Understanding Art
4 class hr/wk, 4 cr.
Examines concepts of HVAC fitting size. Includes shop production and organization, estimating, duct and fitting design, field measuring and making fittings, and blow pipe principles. Prerequisite: Placement into WR125 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

ART102 The Creativity Class
2 class and 2 lab hr/wk, 3 cr.
Examines concepts of HVAC fitting size. Includes shop production and organization, estimating, duct and fitting design, field measuring and making fittings, and blow pipe principles. Prerequisite: Placement into WR115 (or higher); and completion of ART115 and VC114; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp
ART121 Introduction to Digital Arts
2 class and 4 lab hr/wk, 4 cr.
Introduces the basics in digital imaging and layout skills using industry standard software and devices through digital imaging, image manipulation, layout, typography, and digital output. Focuses on the computer as both technical and creative tool in art and design. Introduces students to both raster and vector based software with focus on both the technical and creative use of the computer. Includes discussion of formal design concepts, design process, image appropriation and creative solutions.
Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of ART115; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F

ART131 Introduction to Drawing 1
2 class and 4 lab hr/wk, 4 cr.
Provides instruction in objective observational drawing skills designed for the beginner. Offers lectures, demonstrations, training in traditional problem-solving techniques, composition, and media. Introduces art concepts, vocabulary, and skills to critically analyze drawings.
Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

ART132 Introduction to Drawing 2
2 class and 4 lab hr/wk, 4 cr.
Provides lectures, demonstrations, and continued individualized training in objective drawing begun in ART131, and introduces subjective drawing. Emphasizes composition, and introduces additional drawing media and image sources. Discusses art concepts, vocabulary, and skills to critically analyze drawings.
Prerequisite: Placement in WR115 (or higher), or completion of WR090 (or higher); and completion of ART131; or consent of instructor based on portfolio review. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

ART142 Introduction to Digital Photography
2 class and 2 lab hr/wk, 3 cr.
Introduces digital photography camera handling and editing, and the printing of digital images. Covers important photographic themes and composition.
Prerequisite: Placement in WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; consent of instructor. Offered as needed

ART201 Intro to Arts of East Asia
4 class hr/wk, 4 cr.
Introduces the arts of India and Southeast Asia, China, and Japan. Emphasizes art and architecture as both constructive and reflective of religious, political, and social structures. Traces continuity and change in India: Indus Valley Civilization to the Delhi Sultanate (1206); China: Xia Dynasty to the invasion of the Mongols (1276); and Japan: Jomon Culture to the Kamakura Shogunate (ca. 1300). Prerequisite: Placement into WR121; or completion of WR115 (or higher) with a grade of C or better; or consent of instructor. W

ART202 History of Photography
4 class hr/wk, 4 cr.
Explores the history of photography from its beginning to the present. Includes technical, artistic, commercial, cultural, and social development of photography as a form of visual communication and artistic expression. Prerequisite/Corequisite: WR115 with a grade of C or better; or consent of instructor. Offered as needed

ART203 New Media Art
4 class hr/wk, 4 cr.
Introduces aesthetic, historical, and critical issues of new media arts and design. Presents aspects of printmaking, photography, graphic design, video, film, performance, installation, and other forms of time-based art in terms of experiencing, appreciating, and understanding its role in our lives. Prerequisite: Placement into WR115; or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, CL

ART204 Introduction to Art History
4 class hr/wk, 4 cr.
Explores visual art in the Western tradition: Prehistoric to Early Byzantine period (40,000 BCE to 726 CE). Prerequisite: Placement into WR121; or completion of WR115 (or higher), with a grade of C or better; or consent of instructor. F, W, Su

ART205 Introduction to Art History
4 class hr/wk, 4 cr.
Explores visual art in the Western tradition: Early Medieval through Rococo (500-1789 CE). Prerequisite: Placement into WR121; or completion of WR115 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

ART206 Introduction to Art History
4 class hr/wk, 4 cr.
Explores visual art in the Western tradition from Neo-Classicism to the Twentieth Century. Prerequisite: Placement into WR121; or completion of WR115 (or higher) with a grade of C or better, or consent of instructor. W, Sp

ART207 Graphic Design Literacy
4 class hr/wk, 4 cr.
Explores the historical and cultural underpinnings of graphic art and design and brings a holistic presentation of graphic design history from the pre-historic to the present. Examines how culturally based assumptions influence perceptions, behaviors, and issues. Recommended: WR121 with a grade of C or better. W, Su; CL

ART221 Graphic Design 1: Icons and Symbols
2 class and 4 lab hr/wk, 4 cr.
Applies the principles and elements of design to the process of creating solutions to graphic design challenges with an emphasis on icons and symbols. Prerequisite: ART118 and ART131, each with a grade of C or better; and demonstrated ability to work with vector graphic software, or consent of instructor. F

ART222 Graphic Design 2: Logo Design
2 class and 4 lab hr/wk, 4 cr.
Builds on the concepts learned in ART221 with an emphasis on logo design and branding. Prerequisite: ART221 with a grade of C or better; or consent of instructor. W

ART223 Graphic Design 3: Package Design
2 class and 4 lab hr/wk, 4 cr.
Builds on the concepts in ART222. Continues exploration of graphic design with advanced projects emphasizing package design. Prerequisite: ART222 with a grade of C or better; or consent of instructor. Sp

ART224 Type Design 1
2 class and 4 lab hr/wk, 4 cr.
Introduces the study of typography and its importance in contemporary culture and in the design of visual communications. Prerequisite: VC111 and VC114, each with a grade of C or better; or consent of instructor. W

ART225 Type Design 2
2 class and 4 lab hr/wk, 4 cr.
Continues the study of typography as a design element in visual communications. Prerequisite: ART224 with a grade of C or better; or consent of instructor. Sp
ART234 Figure Drawing
2 class and 4 lab hr/wk, 4 cr.
Offers lectures, demonstrations, and individualized training in representational drawing of the human figure. Continues skills development begun in ART131 applying them to the challenges of drawing the human form. Emphasizes analytical problem solving techniques, drawing methods, anatomy, proportion, and composition. Discusses art concepts, vocabulary, and skills to critically analyze drawings. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and ART131; or consent of instructor based on portfolio review. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

ART235 Figure Drawing: Adv. Topics
2 class and 4 lab/hr/wk, 4 cr.
Continues figure drawing skill development increasing focus on intention, media, anatomy, expression, and accuracy. Offers lectures, demonstrations, and continued individualized training in representational figure drawing skills begun in ART131 and ART234. Emphasize anatomy, proportion, composition, and analytical skills. Introduces additional media, subjective or expressive drawing approaches, and vocabulary that build skills in critically analyzing drawings. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of ART131 and ART234; or consent of instructor based on portfolio review. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

ART237 Photo Illustration
2 class and 4 lab/hr/wk, 4 cr.
Adds digital imaging and manipulation to traditional photographic skills in the study of photo illustration for print or web design. Prerequisite: ART142, ART265, VC114, or VC130; or demonstrated experience in Adobe Photoshop; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

ART238 Introduction to Illustration
2 class and 2 lab/hr/wk, 3 cr.
Introduces traditional illustration techniques. Course may be repeated for a maximum of six credits. Recommended: ART115 and ART131, both with a grade of C or better; or consent of instructor. Offered as needed

ART239 Introduction to Digital Illustration
2 class and 2 lab/hr/wk, 3 cr.
Explores the elements of successful illustration as visual communication through the use of digital tools. Introduces the importance of concept, color, and composition, which students will apply to create thoughtful and visually strong digital imagery. Prerequisite: VC114 or VC139, either with a grade of C or better; or demonstrated experience in vector and raster graphics software; or consent of instructor. W

ART240 Advanced Digital Illustration
2 class and 2 lab/hr/wk, 3 cr.
Offers advanced instruction in techniques and content of digital illustration. Course may be repeated for a total of six credits. Prerequisite: ART239 with a grade of C or better; or consent of instructor. Offered as needed

ART243 Advanced Illustration
2 class and 2 lab/hr/wk, 3 cr.
Continues professional instruction in concept development, process, and techniques for illustration. Course content may be mastered with traditional media (paint, pencil, ink, etc.) or digital illustration software, or a combination of techniques. Course may be repeated for a total of six credits. Prerequisite: ART237, ART238, or ART239; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

ART247 Glass Fusing and Slumping
1 class and 4 lab/hr/wk, 4 cr.
Introduces technical issues in flat fusing and forming for using an electric kiln and refractory molds. Emphasizes design approaches, drawing on historical and contemporary examples. Uses principles of design to create and critically analyze works. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of either ART115 or ART116; or consent of instructor with a portfolio review. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

ART247B Fusing, Slumping: Advanced Topics
1 class and 4 lab/hr/wk, 3 cr.
Explores advanced skills and technical information on using an electric kiln and high-temperature molds to flat-fuse and form glass. Explores using glass as the primary material of expression using techniques such as Basque relief, mold making, inclusions, pattern bars, glass raking and color layering. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of ART247; and at least one of the following studio art classes: ART115, ART116, ART117, ART258, or ART291; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

ART247C Glass Fusing and Slumping – Advanced
1 class and 4 lab/hr/wk, 3 cr.
Explores using glass as the primary material of expression through the use of electric kilns and molds. Incorporates techniques such as Basque relief, mold making, inclusions, pattern bars, glass raking, and color layering. Prerequisite: ART247B with a grade of C or better; or consent of instructor. F, W, Sp, Su

ART249 Emerging Multimedia Arts and Technology
2 class and 4 lab/hr/wk, 4 cr.
Explores cutting-edge creative technologies and techniques within the field of film/video, photography, motion graphics, and immersive mediums. Topics for this class may include photogrammetry for photography, motion tracking for motion graphics, virtual and augmented reality technologies, and other immersive formats that may be professionally used within the quickly evolving creative industry. Offered as needed

ART257 Photography as a Profession
4 class/hr/wk, 4 cr.
Develops the professional skills necessary to succeed in a photography business. Covers business records, marketing, promotion, employment skills, and education-related topics to establish an understanding of the career and business aspects involved in being a successful photographer. Prerequisite: Previous photography coursework; or experience as determined by instructor. Offered as needed
ART258 Introduction to Ceramics
2 class and 4 lab hr/wk, 4 cr.
Introduction to clay; using handbuilding and wheel throwing skills to create ceramic forms. Includes basic form and 3-D design considerations as well as pinch, coil, slab, basic throwing and trimming, decoration, and glazing techniques. Emphasizes craftsmanship through slide lectures, demonstrations, and studio projects. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of Instructor. F, W, Sp, Su

Art 259 Pottery: Wheel Throwing
2 class and 4 lab hr/wk, 4 cr.
Introduces producing pottery using the potter’s wheel. Includes forming, trimming, decorating, glazing, and firing processes, as well as visual and functional form considerations. Emphasizes craftsmanship through slide lectures, demonstrations, and studio projects. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

ART261 Darkroom and Film Photography
2 class and 4 lab hr/wk, 4 cr.
Introduces 35mm black and white photography. Includes the history of contemporary photography, use of camera equipment, correct exposure calibrations, film processing, darkroom techniques, printing enlargements, and presentation of prints. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

ART265 Photography 1
2 class and 4 lab hr/wk, 4 cr.
Introduces traditional approaches to and techniques of representational painting. Includes introduction to materials, color theory, historical perspectives, demonstrations, critiques, slide lectures, field trips, research, reading, and studio time for beginning painters who have strong fundamental drawing skills. Recommended: ART115 and ART116, each with a grade of C or better. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better. Prerequisite/Corequisite: ART131 with a grade of C or better; or consent of instructor based upon demonstration of drawing skills. F

ART266 Photography 2
2 class and 4 lab hr/wk, 4 cr.
Introduces studio lighting for portraits and product photography, color correction, and asset management. Includes the role of the photographer in the graphic communications industry. Prerequisite: ART142 or ART265, either with a grade of C or better; or consent of instructor. Sp

ART267 Portrait Photography
4 class hr/wk, 4 cr.
Explores a variety of techniques and approaches to portraiture. Includes making formal, informal, environmental, and group portraits using studio lighting, location lighting, and available light. Incorporates digital printing and professional practices. Prerequisite: ART265 with a grade of C or better; or consent of instructor. Offered as needed

ART268 Documentary Photography
4 class hr/wk, 4 cr.
Covers photographic concepts and aesthetics of documentary photography. Includes the development of a photo essay: story-telling through an edited series of images with effectively-captioned images; and well-crafted written essays that support and enhance documentary photo projects. Prerequisite: ART265 with a grade of C or better; or consent of instructor. Offered as needed

ART281 Painting 1
2 class and 4 lab hr/wk, 4 cr.
Introduces traditional approaches to and techniques of representational painting. Includes introduction to materials, color theory, historical perspectives, demonstrations, critiques, slide lectures, field trips, research, reading, and studio time for beginning painters who have strong fundamental drawing skills. Recommended: ART115 and ART116, each with a grade of C or better. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better. Prerequisite/Corequisite: ART131 with a grade of C or better; or consent of instructor based upon demonstration of drawing skills. Sp

ART281B Painting 2
2 class and 4 lab hr/wk, 4 cr.
Emphasizes further skill development as paintings are executed with a greater degree of intention, gracefulness, and accuracy. Focuses on discovering inventive solutions through content development and disciplined studio practice. Stresses critical analysis and revision. Explores historical and contemporary approaches in relation to personal work. Includes demonstrations, critiques, slide lectures, field trips, video, research, readings, and studio time. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) and completion of ART281; or consent of instructor based upon demonstration of fundamental painting and drawing skills. (All prerequisite courses must be completed with a grade of C or better) Sp

ART291 Beginning Sculpture
2 class and 4 lab hr/wk, 4 cr.
Introduces the basic materials, processes and concepts fundamental to sculpture. Develops skills through hands-on, concept-driven projects that explore three-dimensional form and its potential for personal expression. Examines both historic and contemporary sculpture through lectures and readings. Learn mold making, casting, carving, construction, and assemblage. Materials include sculpture clay, plaster, wood, found objects, everyday materials and mixed media. Apply principles of design and practice critical analysis of work through written and oral critiques. Encourages creative risk taking and mindfulness of sustainability issues. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); ART115 (or higher), except for ART201 through ART207; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

ART292 Sculpture: The Figure
2 class and 4 lab hr/wk, 4 cr.
Introduces the human figure as a springboard for creative study. Materials include sculpture modeling clay and mixed media, discovering inherent potential and limitations of these materials. Covers basic anatomy, human proportions, and the power of gesture in communicating an idea. Explores realism and abstraction. Apply principles of design and practice critical analysis of work through written and oral critiques. Includes skill-building exercises with materials, research of the figure and its role in art history and contemporary art, and final projects that demonstrate the synthesis of course content. Recommended: ART115, or ART117, or ART131 with a grade of C or better; or consent of Instructor. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Sp, Offered as needed

ART293 Wax to Bronze Sculpture
1 class and 4 lab hr/wk, 3 cr.
Introduces the casting and finishing of bronze sculpture through the lost wax process using ceramic shell technologies. Recommended: ART117 with a grade of C or better. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Sp
American Sign Language

ASL111 American Sign Language 1
4 class hr/wk, 4 cr.
Introduces the fundamentals of American Sign Language (ASL) used by the Deaf Community, including basic vocabulary, syntax, fingerspelling and grammatical non-manual signals. Develops gestural skills as a foundation for ASL enhancement. ASL questions, commands, and other simple sentence structures are introduced to develop rudimentary conversational skills in ASL short signed or video-recorded. Instructor and students use ASL as the primary language of the class. Course has an online component that requires students to use Internet resources for coursework.

Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better.; Internet skills. F, W, Offered as needed

ASL112 American Sign Language 2
4 class hr/wk, 4 cr.
Continues study in American Sign Language (ASL), supported by vocabulary, grammar, and guided conversation. Introduces various sign systems and methods of communication used by deaf, deaf-blind, non-signing deaf, hard-of-hearing and late-deafened individuals. Discusses information about various perspectives of these community members. Presents Deaf Culture and community as well as historical aspects through reading, writing, and short signed or video-recorded conversations/presentations. Course has an online component that requires students to use internet resources for coursework.

Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of ASL111 within the past year; and internet skills; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, Sp

ASL113 American Sign Language 3
4 class hr/wk, 4 cr.
Continues development of expressive and receptive skills learned in ASL111 and ASL112. Expands vocabulary and introduces forms of ASL narrative and dialogue. Advances study in complex grammatical structures. Describes people and things in clothing, including sentence translations and appropriate behaviors in greetings and leaving-takings. Makes requests and asks for advice, using agreement verbs and conjunction. Describes places in the neighborhood and suggests a place to eat by giving directions. Expands signing numbers and finger-spelling with appropriate productions. Rehearses different narrative elements and presents a coherent story. Uses total immersion of ASL for classroom interaction and instruction.

Course has an online component that requires students to use internet for coursework and workbook assignments.

Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of ASL112 within the past year; and internet skills; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, Sp, Su

ASL211 American Sign Language 4
4 class hr/wk, 4 cr.
Continues development of expressive and receptive skills learned in American Sign Language (ASL) first year. Expands vocabulary and introduces forms of ASL narrative and dialogue. Advances study in complex grammatical structures. Explores issues pertaining to the Deaf Community with appropriate behaviors to interrupt and resume conversations and to interact in environment. Discusses personal goals and plans including subject broach and conclusion. Gives opinions about tendencies, personal qualities, knowledge, and abilities. Increases signing numbers and fingerspelling with appropriate productions. Uses total immersion of ASL for classroom interaction and instruction. Course has an online component that requires students to use internet for coursework and workbook assignments.

Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of ASL111 within the past year; and internet skills; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, Offered as needed

ASL212 American Sign Language 5
4 class hr/wk, 4 cr.
Continues development of expressive and receptive skills learned in ASL 211. Expands vocabulary and continues study in forms of ASL narrative and dialogue and complex grammatical structures. Shares stories to develop and maintain relationships in the Deaf community. Develops strategies for explaining rules while playing games and discuss general rules in driving and culture. Describes physical arrangements requiring skills to visualize the room and to use the interplay of both hands to show where objects are located. Creates a coherent narrative that contains an introduction, a series of activities in chronological order and a closing. Uses ASL for classroom interaction and instruction. Course has an online component that requires students to use internet coursework and workbook assignments.

Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of ASL211 within the past year; and internet skills; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, Offered as needed

ASL213 American Sign Language 6
4 class hr/wk, 4 cr.
Continues development of expressive and receptive skills learned in ASL212 and the completion of the second year courses. Expands vocabulary and introduces forms of ASL narrative and dialogue. Advances study in complex grammatical structures. Shares personal experiences with other people about misadventures and childhood incidents. Talks about shopping for bargains and how to save, spend, and make investments. Prepares for future decisions that may impact student’s lives. Discusses complaints about health or on-going personal problem. Demonstrates how to describe an object fluently by visualizing the object, choosing appropriate classifiers, and using the interplay of the weak and dominant hands. Uses total immersion of ASL for classroom interaction and instruction. Course has an online component that requires students to use internet for coursework and workbook assignments.

Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of ASL212 within the past year; and internet skills; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp, Offered as needed
Anthropology

ATH101 Human Evolution
4 class hr/wk, 4 cr.
Studies the processes of the bio-cultural evolution of humans with an emphasis on the evolutionary theory from several belief systems. Includes Mendelian and population genetics, classification of primates (human and non-human), fossil evidence for human evolution, the study of biological diversity in contemporary human populations, and the biological and cultural definition of race. **Prerequisite:** Placement into WR115 (or higher); or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL

ATH102 Archaeology
4 class hr/wk, 4 cr.
Covers basic archaeological method and theory and reviews the techniques used for investigating the past. Focuses on the interpretation and assessment of archaeological data. Includes the development of technology and food production, the origins of complex societies and the resulting social inequalities, and the evolution of cultural systems. Includes some of the major contributions of archaeology and discusses the relevance of archaeology to everyday life. Selection of specific societies and sites for study may vary according to each instructor’s expertise. **Prerequisite:** Placement into WR115 (or higher); or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL

ATH103 Introduction to Cultural Anthropology
4 class hr/wk, 4 cr.
Surveys the field of cultural anthropology and its focus on the human patterns of behaviors, thoughts, and feelings. Introduces a methodology for studying human sociocultural adaptations. Includes the topics of major cross-cultural studies with a focus on language, adaptation, economics, marriage, kinship, gender, political organization, stratification, and religion. Examines the process of culture change and the application of cultural anthropology to practical society problems. **Prerequisite:** Placement into WR115 (or higher); or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL

ATH180 The Nature of Language
3 class hr/wk, 3 cr.
Introduces anthropological linguistics. Includes the history of linguistics and written language, descriptive linguistics, sociolinguistics, language and thought, language acquisition and the biology and physiology of language development. Also includes bilingualism and multiculturalism and written language development in both the old and new world. **Prerequisite:** Placement into WR115 (or higher); or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

ATH212 Mexican Prehistory
4 class hr/wk, 4 cr.
Explores the development of Mexican culture from the early hunter gatherers of the Archaic to the formation of cultivators, ceramics, settlements, and the establishment of traditional Mesoamerican cultural traits and cosmologies. The innovations of the Pre-classic, Classic, Epi-classic, and Post-classic Periods, and the rise and fall of the Aztec state are examined through archaeological, ethnographic, and ethnohistoric evidence. Major Mexican and Mayan archaeological sites of Mesoamerica are discussed with an emphasis on change through time. **Prerequisite:** Placement into WR115 (or higher); or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

ATH214 Contemporary Mexican Culture
4 class hr/wk, 4 cr.
Provides a look at key situations and events throughout the prehistoric and historic periods which significantly shaped or contributed to Mexican culture and ethnic identity. Emphasis is placed on the modern historic era. Explores the development and characteristics of Mexican culture from the early hunter gatherers of the Archaic to the establishment of traditional Mesoamerican cultural traits and cosmologies. Major Mexican and Mayan archaeological sites of Mesoamerica are initially discussed, as well as specific cultural innovations of the Classic, Epi- and Post-classic periods. **Prerequisite:** Placement into WR115 (or higher); or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

ATH231 Native American Studies
4 class hr/wk, 4 cr.
Focuses on Native American cultures and their ancestors in prehistoric, historic, and contemporary contexts. Presents the history of anthropological research and surveys languages and culture areas of Native North America. Evaluates differences in tribal strategies adapting to Europeans while struggling to retain tribal sovereignty. Covers native identity, intertribal culture, and contemporary issues. **Prerequisite:** Placement into WR115 (or higher); or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

Automotive Technology

AUM151 Basic Automotive Engines
3 class and 6 lab hr/wk, 5 cr.
Covers construction, working principles, and methods of servicing a gasoline and diesel internal combustion engine. Stresses proper use of tools, torque wrenches, micrometers and equipment. Discusses theory and operation of the makeup of simple and complex machines involving levers, cams, inertia and momentum. F

AUM152 Automotive Machine Shop
2 class and 6 lab hr/wk, 4 cr.
Covers the methods, technical aspects, theory, checks, and procedures used to recondition internal combustion engines and related components. Introduces the precision measuring tools, torque wrenches, fasteners, and machining equipment used daily by automotive machinists. Discusses procedures, precision measuring devices, and special tools, as well as theories of leverage, pressure/volume, expansion, momentum, inertia, and work related to engines. **Prerequisite:** AUM151 and AUM158, each with a grade of C or better; or consent of instructor. W

AUM157 Automotive Brake Systems
3 class and 7 lab hr/wk, 6 cr.
Covers the theory and principles of automotive brake systems. Includes service diagnosis and repair of disc and drum brakes, manual and power brakes; brake system controls, indicating devices, safety, and A.B.S. and traction control system diagnosis. **Prerequisite:** AUM151 and AUM158, each with a grade of C or better; or consent of instructor. F

AUM158 Automotive Steering and Suspension
3 class and 6 lab hr/wk, 5 cr.
Presents the principles of automotive wheel, steering, and suspension systems. Includes front and rear suspension alignment, theory of suspension operation, and wheel service and balance. Applies accepted repair procedures on automotive suspension. W
AUM159 Automotive Chassis Systems
2 class and 7 lab hr/wk, 5 cr.
Prepares the theory, operation, and service of automotive chassis systems, including steering, suspension, and brakes. Sp

AUM161 Manual Drive Train and Axles 1
3 class and 6 lab hr/wk, 5 cr.
Introduces the theory and service of automotive power trains including clutches and clutch linkage, drive shafts and universal joints, front-wheel drive axles, manual transmissions, manual transaxles, rear axles and differentials, including open and limited slip. Examines friction, gear reduction, and torque multiplication through use of gear sets, inertia, and momentum, as they apply to power train components. Prerequisite: AUM152, AUM157, and AUM168; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

AUM168 Automotive Electrical Systems 1
3 class and 6 lab hr/wk, 5 cr.
Introduces automotive electricity and electronics systems. Includes an overview of automotive circuits. Prerequisite: AUM151 and AUM158, each with a grade of C or better; or consent of instructor. W, Sp

AUM176 Automotive Electrical Systems 2
3 class and 6 lab hr/wk, 5 cr.
Continues DC electrical systems for the repair and service of automotive vehicles. Focuses on body electrical systems and troubleshooting of individual systems. Prerequisite: AUM152, AUM168, and AUM157; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

AUM184 Automotive Materials and Resources
2 class/hr/wk, 2 cr.
Covers various service manuals, service information, labor calculation and electronic manual systems. Focuses on the use of computerized manual systems commonly used in the automotive repair industry. F, W, Sp

AUM185A Automotive Machining Fundamentals
2 class and 3 lab hr/wk, 3 cr.
Introduces the fundamentals of automotive machine processes and automotive fasteners, presses, pedestal grinders, arbor presses, and basic layout and tool sharpening. Includes use of appropriate charts and tables including decimal equivalent and drill and tap selection with speed and feed calculations. F

AUM186A Automotive Lathe Fundamentals
2 class and 3 lab hr/wk, 3 cr.
Introduces turning operations as related to automotive machining with emphasis on work and tool holding methods. Covers related hole-making process, facing, tapping, grooving, and parting. Prerequisite: AUM187A with a grade of C or better; or consent of instructor. Sp

AUM187A Automotive Milling Machine Processes
2 class and 3 lab hr/wk, 3 cr.
Covers basic milling processes, work-holding methods, cutter identification, selection and use, speeds and feeds, adapters, tool holders and application. Includes operation of milling machines as applied to typical automotive machining operations. Prerequisite: AUM185A with a grade of C or better; or consent of instructor. W

AUM188 Automotive Machine Shop—Upper Engine
1 class and 4 lab hr/wk, 3 cr.
Introduces theory and application used in automotive machining procedures. Includes use of precision measuring tools, torque wrenches, valve and seat grinding, valve guide and seat repairs, resurfacing, valve springs and cylinder head assembly. F

AUM189 Automotive Machine Shop—Lower Engine
1 class and 4 lab hr/wk, 3 cr.
Introduces the theory and application used in automotive machining procedures. Emphasizes precision measuring tools, torque wrenches, cylinder block boring and honing, cylinder block resurfacing, mainline checks and repairs, and connecting rod reconditioning. W

AUM190 Automotive Machine Shop—Engine Assembly
2 class and 3 lab hr/wk, 3 cr.
Covers theory and application in automotive machining procedures. Includes use of precision measuring tools, torque wrenches, camshaft timing checks, clearance checks, blueprint measurement, and engine assembly and sealing techniques. Prerequisite: AUM188 and/or AUM189, either with a grade of C or better; or consent of instructor. Sp

AUM253 Automotive Engines 2
1 class and 8 lab hr/wk, 4 cr.
Focuses on repair and service of automotive internal combustion engines. Stresses speed and accuracy of diagnosis and repair. Builds on prior training. Prerequisite: AUM251, AUM252, and AUM286; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

AUM262 Manual Drive Train and Axles 2
2 class and 6 lab hr/wk, 4 cr.
Continues the theory and service of automotive drive trains, concentrating on the diagnosis and repair of all components. Includes practical application of diagnosis, service, and repair on clutches, drive shafts, universal joints, front-wheel drive axles, manual transmissions, manual transaxles, rear axles, differentials, and four-wheel drive transfer cases. Prerequisite: AUM161 and AUM176, each with a grade of C or better; or consent of instructor. F

AUM263 Automatic Transmissions and Transaxles 1
3 class and 6 lab hr/wk, 5 cr.
Introduces the fundamentals of automatic transmission operation. Explains methods of gear change, power flows, and basic hydraulic principles used in automatic transmissions. Emphasizes the service and overhaul of automatic transmissions. Prerequisite: AUM161 and AUM176, each with a grade of C or better; or consent of instructor. F

AUM266 Engine Performance 1
3 class and 6 lab hr/wk, 5 cr.
Covers basic principles of fuel and induction systems. Includes the basics of pressure differential, the Venturi principle, and fuel systems for gasoline and diesel engines. Examines basic carburetor overhaul, service, and adjustment. Introduces fuel injection operation and testing, both gas and diesel. Explores basic emission controls and testing. Prerequisite: AUM161 and AUM176, each with a grade of C or better; or consent of instructor. F

AUM267 Engine Performance 2
3 class and 6 lab hr/wk, 5 cr.
Focuses on automotive fuel injection and ignition systems involving computer functions, inputs, commands, system diagnosis, causes of emissions, and testing of related systems. Covers turbocharging and supercharging. Prerequisite: AUM262, AUM263, AUM266, and AUM277; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

AUM273 Automatic Transmissions and Transaxles 2
1 class and 8 lab hr/wk, 4 cr.
Focuses on diagnosis, repair, and service of a vehicles powertrain with emphasis on automatic transmission and automotive transaxles. Includes electronic transmission diagnostics. Emphasizes speed and accuracy in diagnosis and repair. Builds on prior training. Prerequisite: AUM267, AUM282, and AUM286; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp
AUM277 Electronic Vehicle Controls 1
3 class and 6 lab hr/wk, 5 cr.
Emphasizes testing, diagnosis, and the theory of automotive electrical and electronic systems. Includes computer controlled systems and sub-systems, networks, and diagnostic equipment. **Prerequisite:** AUM161 and AUM176, each with a grade of C or better; or consent of instructor. F

AUM280B-L Cooperative Work Experience
See CWE—Cooperative Work Experience.

AUM281 Engine Performance 3
3 class and 6 lab hr/wk, 5 cr.
Covers theory and diagnosis of electronically controlled gasoline and diesel internal combustion engines and related emission control systems. Emphasizes use of diagnostic equipment and repair of computer controlled vehicles. **Prerequisite:** AUM267, AUM277, AUM282, and AUM286; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

AUM282 Electronic Vehicle Controls 2
3 class and 5 lab hr/wk, 5 cr.
Provides advanced training in the operation and testing of automotive electronic control and alternative propulsion systems with emphasis on diagnostic approach and procedure. **Prerequisite:** AUM262, AUM263, AUM266, and AUM277; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

AUM284 Rechargeable Energy Storage Systems
3 class and 3 lab hrs/wk, 4 cr.
Prepares students for future industry and environmental needs by providing advanced training in the operation and testing of RESS (rechargeable energy storage systems) and related sub systems currently used in the automotive industry and a variety of other green industries. **Prerequisite:** AUM282 with a grade of C or better; or consent of instructor. **Offered as needed**

AUM286 Auto Heating and Air Conditioning
3 class and 6 lab hr/wk, 5 cr.
Present the theory and operation of automotive heating and air-conditioning systems. Covers methods for service, repair, and troubleshooting heating and air-conditioning systems. **Prerequisite:** AUM262, AUM263, AUM266, and AUM277; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

Business Administration
See also ENT—Entrepreneurship

BA100 Business Career Exploration
3 class hr/wk, 3 cr.
First step in becoming a student of business. Provides a broad introduction to the many different business industries and job opportunities represented within Oregon. Examines the educational requirements, as well as the job experiences needed to enter and advance within the different industries. Covers the earning capacities of specific positions to establish clear expectations of future career goals. Through additional course readings students will be exposed to local business success examples. **Offered as needed**

BA101 Introduction to Business 4 class hr/wk, 4 cr.
Introduces the inter-relationships of business, government, and society. Examines the defined and/or established roles of the business community. Looks at various aspects of business including emphasis on ethics and social responsibility. **Recommended:** Placement into RD090 and WR121. F, W, Sp, Su

BA104 Business Applications Using Mathematics
4 class hr/wk, 4 cr.
Covers application of mathematics to personal finance and the world of business. Includes applications involving banking, payroll, the mathematics of buying and selling, simple interest, compound interest, annuities, stocks and bonds, business and consumer loans, taxes and insurance, depreciation, financial statement analysis, frequency graphing and calculating mean, median and mode. Uses spreadsheet computational tools and manual, hand-held calculator. **Prerequisite:** Placement into MTH070 or higher; or completion of MTH060 or higher; and computer literacy; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

BA115 Introduction to Accounting 4 class hr/wk, 4 cr.
Covers basic accounting principles and procedures to provide familiarity with financial records and current accounting terminology. Includes processing techniques for handling information: special journals, controlling accounts, worksheets used in preparation of account statements, purchases, sales, and end-of-the-period procedures. F, W, Sp, Su

BA131 Business Computing 4 class hr/wk, 4 cr.
Covers computer concepts and the use of information technology in business organizations, including the use of word processing, spreadsheet, and presentation software. Includes introduction to hardware, software, databases, system development, and tools that businesses use for communication and collaboration. Includes appreciating the value of ethical conduct in a business/computer environment and the impact of technology on industry and society. F, W, Sp, Su

BA177 Payroll 4 class hr/wk, 4 cr.
Provides a comprehensive overview to federal and State payroll practices and procedures. Includes computing and recording gross wages, withholding amounts, and net wages. Introduces computerized and manual systems to create and maintain employee earnings records and payroll registers; compute employers’ taxes and other payroll-related costs; make payroll tax deposits; complete payroll reports and W-2s; and make general journal entries for all payroll transactions. **Prerequisite:** BA115 or BA211, either with a grade of C or better; and computer literacy; or consent of instructor. F, W, Sp, Su

BA202 Personal Effectiveness in Business 3 class hr/wk, 3 cr.
Emphasizes individual and small group exercises to improve skills in self-awareness, communication, values clarification, individual/group problem-solving and strategies to assist the student in maintaining employment, and demonstrating a professional image and work behavior. **Recommended:** Placement into RD090 and WR121. F, W, Sp, Su

BA204 Diversity in the Workplace 3 class hr/wk, 3 cr.
Introduces an understanding of cultural differences and managing diversity as a competitive advantage in the work environment. Covers perspectives on race, national origin, gender, age, religion and spirituality, disabilities, and sexual orientation. **Recommended:** Placement into RD090 and WR121. F, W, Sp, Su

BA206 Business Management Principles 4 class hr/wk, 4 cr.
Analyzes and synthesizes historical and current theories in leadership, group processes, organizational structures, personnel policies, motivation and training that allow an individual to plan, organize, control, staff and direct subordinates in an organization. **Recommended:** Placement into RD090 and WR121; and completion of BA101 with a grade of C or better. F, W, Sp, Su
BA209 Introduction to Social Media Marketing
4 class hr/wk, 4 cr.  
Introduces the impact and benefits of social media in businesses and organizations. Explores the components and trends of social media. Researches best practices of social networks across organizations. Develops a social media marketing plan for implementation in a business.  
Recommended: Placement into RD090 and WR121; and completion of BA101 with a grade of C or better; and computer literacy.  
F, Offered as needed

BA211 Financial Accounting 1
4 class hr/wk, 4 cr.  
Covers the complete accounting cycle for service and merchandising firms including recording transactions, adjustments, financial statements, worksheets, closing entries, cash and accounts receivable, notes and interest, and accounting for inventories.  
F, W, Sp, Su

BA212 Financial Accounting 2
4 class hr/wk, 4 cr.  
Covers accounting theory, capital assets and depreciation, current and long-term liabilities, partnerships, corporations, investments, cash flow statements and ratio analysis. Prerequisite: BA211 with a grade of C or better; or consent of instructor.  
F, W, Sp, Su

BA213 Managerial Accounting
4 class hr/wk, 4 cr.  
Covers managers use of accounting. Includes job order and process costing, activity-based costing, cost-volume profit analyses, short term business decisions, capital investments, time-value-of-money concepts, master budgeting, and flexible budgets and standard costs. Prerequisite: BA212 with a grade of C or better; or consent of instructor.  
F, W, Sp, Su

BA214 Business Communications
3 class hr/wk, 3 cr.  
Applies principles of written, oral, and non-verbal communication. Covers preparation of good news, bad news, and persuasive messages in applied situations using properly formatted letters, memoranda, and reports. Includes development of resumes, job application letters, and job interviews. Emphasizes written and oral assignments that require individual and group work. Prerequisite: BT210 or WR121, either with a grade of C or better; touch keyboarding at 30 wpm; or consent of instructor.  
F, W, Sp, Su

BA216 Small Business Financial Management
4 class hr/wk, 4 cr.  
Explores the financial processes necessary to manage a new or continuing small business. Includes tax, cash management, financial planning, funding, reporting, community resources, and financial responsibility. Recommended: Placement into RD090 and WR122; and completion of BA101 with a grade of C or better.  
W, Offered as needed

BA218 Personal Finance
4 class hr/wk, 4 cr.  
Examines the principles and concepts of personal finance. Reviews personal financial planning in the areas of money management, budgeting, career planning, taxes, consumer credit, housing decisions, legal protection, insurance, investments, retirement, and estate planning.  
W, S, Offered as needed

BA222 Financial Management
4 class hr/wk, 4 cr.  
Explores principles of planning, acquiring, and using funds in an organization. Includes investment analysis, budgeting, ratio analysis, capital investments (using present and internal rate of return), cost of capital, cash and credit management. Recommended: Placement into RD090 and WR121; and completion of BA212 and MTH070 or higher.  
(W with a grade of C or better) F, W, Sp

BA223 Principles of Marketing
4 class hr/wk, 4 cr.  
Surveys all functions of marketing from research and product development to the sale of a product or service and feedback regarding consumer acceptance. Emphasizes marketing planning and strategy as dictated by the consumer through marketing research. Recommended: Placement into RD090 and WR121; and completion of BA212 and MTH070 or higher.  
(With a grade of C or better) F, W, Sp

BA224 Human Resource Management
4 class hr/wk, 4 cr.  
Studies the principles and functions of the human resource department as it specifically relates to supervision. Includes policy formulation, employee selection and placement, interviewing and counseling, discipline, labor-management relations, wage and salary administration, human resource development, and employee health and safety. Recommended: Placement into RD090 and WR121; and completion of BA101 with a grade of C or better.  
F, W, Sp, Su

BA225 Excel for Accounting
4 class hr/wk, 4 cr.  
Presents the use of basic and advanced functions of electronic spreadsheets as they relate to the accounting profession and to financial applications. Includes review of Excel formulas and formatting using templates and using spreadsheet applications to compute financial outcomes. Relates spreadsheet applications to financial accounting, managerial accounting, budgeting, and audit activities. Prerequisite: Placement into MTH070 or higher; or completion of MTH060 or higher; and BA211; and computer literacy; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

BA226 Business Law 1
4 class hr/wk, 4 cr.  
Introduces the nature and function of the law in society. Covers common law and basic legal requirements, and constitutional, tort, criminal, employment, and contract law. Recommended: Placement into RD090 and WR121; and completion of BA101 with a grade of C or better.  
F, W, Sp, Su

BA227 Business Law 2
3 class hr/wk, 3 cr.  
Covers legal aspects of Uniform Commercial Code (UCC), property, business entities, and agency and partnership law. Recommended: Placement into RD090 and WR121; and completion of BA101 and BA226, each with a grade of C or better.  
W, Sp

BA228 Computerized Accounting
1 4 class hr/wk, 4 cr.  
Introduces computer-based accounting for small businesses and provides hands-on experience with business applications including general ledger, accounts receivable, accounts payable, payroll, inventory management processing, sales invoicing, check reconciliation, financial statements, budgeting, analysis, and reports. Prerequisite: BA115 or BA211, either with a grade of C or better; and computer literacy; or consent of instructor.  
F, W, Sp, Su

BA231 Fundamentals of Transportation and Logistics Management
4 class hr/wk, 4 cr.  
Examines logistics as a key part of supply chain management that plans, implements, and controls the flow and storage of goods, services, and related information between points of origin and points of consumption. Prerequisite: BA234 and BA236, each with a grade of C or better; or consent of instructor.  
F
BA234 Fundamentals of Supply Chain Management
4 class hr/wk, 4 cr.
Provides the fundamentals of purchasing. Covers the purchasing function, purchasing policies, procedures and manuals, legal aspects of purchasing, public relations and purchasing ethics, supply quality and sources, storekeeping, and personnel. Recommended: Placement into RD090 and WR121; and completion of BA101 with a grade of C or better. F, Offered as needed

BA235 Procurement for State and Local Governments
4 class hr/wk, 4 cr.
Provides a basic understanding of pertinent topics and influences that shape the public procurement profession. Includes fundamentals of public procurement: competition, impartiality and openness, effective use of public funds, innovation, and flexibility. Recommended: Placement into RD090 and WR121; and completion of BA101 with a grade of C or better. F, Offered as needed

BA236 Contract Management
4 class hr/wk, 4 cr.
Introduces administration and management of contracts developed and established through the procurement process. Covers administration of contract activities, ethics in contract administration, inspection and acceptance of goods and services, delays in contract process, contract disputes and appeals, and termination of contracts. Recommended: Placement in RD090 and WR121; and completion of BA101 with a grade of C or better. Sp

BA237 Financial Records Management
4 class hr/wk, 4 cr.
Covers establishing policies and procedures for maintaining, archiving, and appropriate retention and disposal of financial records for accounting departments in accordance with industry and legal standards and guidelines. Includes proper document handling according to governing bodies and information confidentiality. Includes converting a traditional accounting document management system to an electronic paperless system. Sp, Offered as needed

BA240 Governmental/Non-Profit Accounting 1
4 class hr/wk, 4 cr.
Considers budgets, accounting for general funds, special revenue funds, revenue accounting, expenditure accounting, capital projects funds, debt service funds, special assessment funds, enterprise funds, capital assets, and summary of funds and groups. Includes comprehensive study of accounting for state and local governmental and non-profit entities. Prerequisite: BA212 with a grade of C or better; or consent of instructor. W, Offered as needed

BA249 Principles of Retailing
3 class hr/wk, 3 cr.
Introduces retailing and provides an understanding of the types of businesses, strategies, operation, formats, and environments through which retailing is carried out. Covers planning, research, consumers' behavior, store design, and strategies for merchandising, management, promotion, and pricing. Stresses the global dimensions of retailing as well as the relationship between retailing and society. Recommended: Placement into RD090 and WR121; and completion of BA101 with a grade of C or better. W

BA250 Small Business and Entrepreneurship
4 class hr/wk, 4 cr.
Covers fundamentals of entrepreneurship and small business management. Explores challenges facing entrepreneurship and small business today, business management strategies, financing, various forms of business ownership, opportunity assessment, business plan, and feasibility analysis. Recommended: Placement into RD090 and WR121; and completion of BA101 with a grade of C or better. F

BA251 Office Management
3 class hr/wk, 3 cr.
Presents the broad scope of responsibilities of the administrative office manager. Includes planning, organizing, and controlling of business services, systems, and procedures. Identifies and explains how issues of difference and power occur in the workplace and management process. F

BA256 Income Tax 1
4 class hr/wk, 4 cr.
Presents the first of two courses in preparing Federal and Oregon individual income tax returns. Completing BA256 and BA257 meets the educational requirements to take the Oregon Licensed Tax Preparer's exam and the IRS Registered Tax Return Preparer exam. F, W, Su

BA257 Income Tax 2
4 class hr/wk, 4 cr.
Presents the second of two courses in preparing Federal and Oregon individual income tax returns. Completing BA256 and BA257 meets the educational requirements to take the Oregon Licensed Tax Preparer's exam. F, W, Su, Offered as needed

BA276 Advanced Payroll
4 class hr/wk, 4 cr.
Expands student's current knowledge of payroll to include advanced payroll accounting, internal controls, and ethics. Prerequisite: BA177 with a grade of C or better; or consent of instructor. Sp, Offered as needed

BA277 Business Ethics
3 class hr/wk, 3 cr.
A comparative study of ethical and economic systems designed to increase decision-making capabilities. Emphasizes issues and policy formation in varied business settings. Recommended: Placement into RD090 and WR121; and completion of BA101 with a grade of C or better. F, W, Sp, Su

BA279 Computerized Accounting 2
4 class hr/wk, 4 cr.
Continues computer-based accounting for small businesses using QuickBooks Online version. Includes start-up of a new company, building a chart of accounts, completing the accounting cycle, processing payroll, reconciling accounts, preparing financial statements, and preparing a financial analysis of a company using spreadsheet software. Prerequisite: BA212 and BA228 with a grade of C or better; and computer literacy; or consent of instructor. F, Offered as needed

BA280B-L Cooperative Work Experience
See CWE–Cooperative Work Experience.

BA282 Applied Accounting Capstone
4 class hr/wk, 4 cr.
Serves as a capstone assessment course for review and application of accounting skills previously studied in the Accounting program. Includes: completion of a year-end closing and analysis using accounting software, the preparation of a business tax return, and analyzing accounting best practices. Designed to prepare the student for the professional practice in an accounting career. Prerequisite: BA256; and BA279, or BA240, or BA276; and computer literacy; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp, Offered as needed

BA285 Organizational Behavior
4 class hr/wk, 4 cr.
Explores interpersonal relations in an organizational setting. Topics include: interpersonal communications, individual and group behavior, leadership, forms and sources of power, organizational politics, organizational culture, conflict management, and change management. Recommended: Placement into RD090 and WR121; and BA101 with a grade of C or better. F, W, Sp, Su
BA286 Negotiations
4 class hr/wk, 4 cr.
Introduces the fundamentals and phases of negotiations, tools to use during negotiations, and ways to find win-win solutions. Covers preparing for negotiations, developing a negotiation style, building trust and relationships, and bargaining strategies. Addresses use of power and persuasion; the role of ethics; and the dynamics of multiple parties, coalitions, and teams in negotiations. Introduces cross-cultural negotiations and use of technology. **Recommended:** Placement into RD090 and WR121; and completion of BA101 and COMM115, each with a grade of C or better. W

BA287 Principles of Project Management
4 class hr/wk, 4 cr.
Explores the various facets of project management. Covers the fundamentals, core concepts, techniques, and skills needed for success. Identifies the management skills needed for projects, goals, activities, resources, team development, risks, budgets, and controls from start to finish. **Recommended:** Placement into RD090 and WR121; and completion of BA101, and MTH095 or higher. (All recommended courses must be completed with a grade of C or better.) F, Sp

BA288 Principles of Responsible Management
4 class hr/wk, 4 cr.
Introduces the three areas of management: sustainability, responsibility, and ethics as they relate to business, government, and society as a whole. Provides an understanding of the triple bottom line (ecologic performance, social performance, and economic performance) utilizing the four functions (planning, organizing, leading, and controlling) of management. **Recommended:** Placement into RD090 and WR121; and completion of BA101 with a grade of C or better. W

**Biology**

B1060 Basic Science for Dental Assistants
2 class and 2 lab hr/wk, 3 cr.
Designed especially for Dental Assisting program students. Presents introductory concepts of chemistry, cell biology, anatomy and physiology, microbiology and oral histology and embryology. Includes practical application of problem solving, scientific observation laboratory techniques. **W, Sp, Offered as needed**

B101 General Biology: Ecology and Diversity
3 class and 3 lab hr/wk, 4 cr.
Introductory biology course designed for students not majoring in biology or a biology-related field. Investigates the diversity of life forms on Earth, the basic principles of ecology and the consequences of ecosystem alteration by human beings (emphasizing issues relevant to living in the Pacific Northwest). Includes two mandatory field trips. (B110, B1102, and B1103 may be taken in any order.) **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. **F, Sp, Offered summer as needed**

B102 General Biology: Cell Biology, Genetics, and Evolution
3 class and 3 lab hr/wk, 4 cr.
Introductory biology course designed for students not majoring in biology or biology-related fields. Investigates cell structure, cell division, Mendelian genetics, and principles of evolution. Introduces modern techniques in biotechnology and discusses their ethical implications. (B1101, 102 and 103 may be taken in any order.) **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. **F, Sp, Offered as needed**

B103 General Biology: Plant and Animal Structure and Function
3 class and 3 lab hr/wk, 4 cr.
Introductory biology course designed for students not majoring in biology or a biology-related field. Includes a mandatory field trip. Investigates plant and animal structure and function. Emphasizes homeostasis, nutrition, and elements of the reproductive, internal transport, gas exchange, and defense systems in both plants and animals. (B1101, B1102, and B1103 may be taken in any order.) **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. **F, Sp, Offered as needed**

B111 Introduction to Anatomy and Physiology 1
2 class and 2 lab hr/wk, 3 cr.
Survey of the human body in the first term of a two-term sequence. Focuses on anatomical terminology, basic chemistry, cells, tissues, and the following systems: integumentary, skeletal, muscular, nervous, and endocrine. Includes lectures, labs, and dissections. **Prerequisite:** Placement into, or completion of, RD115 (or higher), and WR115 (or higher); or consent of instructor. (Prerequisite courses must be completed with a grade of C or better.) **F, W, Offered as needed**

B112 Introduction to Anatomy and Physiology 2
2 class and 2 lab hr/wk, 3 cr.
Survey of the human body in the second term of a two-term sequence. Focuses on structure and function of the following systems: circulatory, lymphatic, immune, respiratory, digestive, urinary, and reproductive. Provides topics on nutrition, pregnancy, and genetics. Includes lectures, labs, and dissections. **Prerequisite:** Placement into, or completion of, WR115 (or higher); and completion of B112; or consent of instructor. (Prerequisite courses must be completed with a grade of C or better.) **W, Sp, Offered as needed**

B113 Environmental Science 1
3 class and 3 lab hr/wk, 4 cr.
Introduces basic principles of ecology and environmental science and examines environmental problems and issues concerning human population growth. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. **F, Sp, Offered as needed**

B114 Environmental Science 2
3 class and 3 lab hr/wk, 4 cr.
Examines environmental problems and issues related to resource uses, including agriculture, soils, wildlife, forests, fisheries, and water. Loss of biodiversity and global climate change are emphasized. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of B1131 or B1101; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **W

B115 Environmental Science 3
3 class and 3 lab hr/wk, 4 cr.
Examines environmental problems and issues related to energy supply and use, environmental contamination waste management and land use. Explores relationships between environmental science and society. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of B1132; or consent of instructor. (All prerequisites must be completed with a grade of C or better.) **Sp

B116 Marine Biology
3 class and 3 lab hr/wk, 4 cr.
Investigates a variety of marine ecosystems, including rocky intertidal, estuaries, beaches, coastal waters of the continental shelf (neritic), the open ocean, deep ocean, hydrothermal vents and other marine environments. Evaluates marine life found along Oregon’s coastal environments and the adaptations to a marine existence; particular emphasis on the biology, ecology, physiology, and morphology of marine plants and animals. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. **Sp
BI153 Fundamentals of Plant Biology
3 class and 3 lab hr/wk, 4 cr.
Introduction to the anatomy and basic metabolic processes (cellular and organisnal) of plants. Includes a survey of the evolution of plant diversity and discusses plant life cycles and inheritance. Meets a science with lab requirement for non-science majors. Serves as background for students in the Horticulture programs. Prerequisite: Placement into WR115 (or higher); or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

BI200 Principles of Ecology – Field Biology
3 class and 3 lab hr/wk, 4 cr.
Emphasizes the broad concepts of ecology in a field setting using natural ecosystems as a model. Introduces concepts in the classroom and then examines them in detail using student-collected field data. Course may be repeated for a maximum of eight lecture and laboratory credits. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of BI101 or BI131, or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Su

BI211 Principles of Biology 1
4 class and 3 lab hr/wk, 5 cr.
Surveys of biodiversity including the major groups of organisms, their classification, and evolutionary origins and relationships. Provides first of a three-term sequence for students majoring in sciences and allied health professions (i.e. botany, zoology, molecular biology, marine biology, pre-veterinary, pre-medical, pre-dental, pharmacy, and related fields). Prerequisite/ Corequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of, or concurrent enrollment in, CH104, or CH121, or CH221; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, Offered as needed

BI212 Principles of Biology 2
4 class and 3 lab hr/wk, 5 cr.
Focuses on cell structure, metabolism and comparative plant and animal anatomy and physiology. Offers second term of a three-term sequence for students majoring in sciences and allied health professions (i.e. botany, zoology, molecular biology, marine biology, pre-veterinary, pre-medical, pre-dental, pharmacy, and related fields). Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of BI211; and CH104, or CH121, or CH221; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, Offered as needed

BI213 Principles of Biology 3
4 class and 3 lab hr/wk, 5 cr.
Focuses on the cell cycle, classical and molecular genetics, DNA structure and function, biotechnology, evolution and ecology. Offers third of a three-term sequence for students majoring in sciences and allied health professions (i.e. botany, zoology, molecular biology, marine biology, pre-veterinary, pre-medical, pre-dental, pharmacy, and related fields). Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of BI212; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp, Offered as needed

BI230 Introductory Microbiology
3 class and 3 lab hr/wk, 4 cr.
Surveys the history, anatomy and physiology of microorganisms emphasizing their impact on society. Examines microbe anatomy, metabolism, growth, genetics, taxonomy, selected diseases affecting humans and plants, immunity, and microbial control. Covers food microbiology, industrial microbiology, agricultural microbiology and environmental microbiology with applications to grape growing and winemaking and standard microbiological laboratory techniques. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. W, Offered as needed

BI231 Human Anatomy and Physiology 1
3 class and 3 lab hr/wk, 4 cr.
Presents an in-depth examination of the structure and function of the human body in the first of a three-term sequence. Includes a review of chemical principles, the study of cells, tissues and the integumentary, skeletal and nervous systems. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of CH110; or CH104 and concurrent enrollment in CH105; or CH121 and concurrent enrollment in CH122; or a score of 70% in the Chemistry Proficiency Exam; or one year of accelerated college chemistry within the last seven years. Examines the structure of the human body in the third of a three-term sequence. Includes the study of the endocrine, digestive, urinary and reproductive systems. Also includes an examination of metabolism, body fluids, electrolytes, pH balance, and medical genetics. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of BI232 within the last seven years; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

BI232 Human Anatomy and Physiology 2
3 class and 3 lab hr/wk, 4 cr.
Covers an in-depth examination of the structure and function of the human body in the second of a three-term sequence. Includes the study of the muscular, cardiovascular, lymphatic, immune, and respiratory systems. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of BI231 within the last seven years each with a grade of C or better; and concurrent enrollment in CH106 or CH123 if taking as a chemistry sequence; or completion of CH110; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

BI233 Human Anatomy and Physiology 3
3 class and 3 lab hr/wk, 4 cr.
Covers an in-depth examination of the structure of the human body in the third of a three-term sequence. Includes the study of the endocrine, digestive, urinary and reproductive systems. Also includes an examination of metabolism, body fluids, electrolytes, pH balance, and medical genetics. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of BI232 within the last seven years; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

BI234 Microbiology
3 class and 3 lab hr/wk, 4 cr.
Presents a survey of bacteria and other microorganisms, emphasizing their impact upon human health. Includes discussion of infection, immunity, common pathogens, and mechanisms of control. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of BI231 within last seven years; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

BI235 Human Dissection
1 class and 3 lab hr/wk, 2 cr.
Examines the structure of the human body through cadaver dissection. Provides a review of human anatomy and physiology and trains students in dissection technique and care of preserved tissues. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of BI232; and submission of the human dissection class application; and consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Su
Building Inspection Technology
BLD141 International Residential Codes 1
3 class hr/wk, 3 cr.
Covers the administrative, definitions, building planning, and foundation portions of the International Residential Specialty Code (Chapters 4 through 11) as it relates to residential construction and other applicable codes. F

BLD142 International Residential Codes 2
3 class hr/wk, 3 cr.
Covers the floor, wall, roof, chimney, and energy conservation provisions of the International Residential Specialty Code (Chapters 5 through 11) as it relates to residential construction and other applicable codes. Emphasis placed on lateral bracing provisions and preparation to take the ICC Residential Building Inspector Certification Exam. Prerequisite: BLD141 with a grade of C or better; or consent of instructor. W

BLD151 Building Codes 1
3 class hr/wk, 3 cr.
Studies the scope, meaning, and use of the Model International Residential Building Code including occupancy classifications, building area, height and location limitations, types of construction, exits, and fire resistive standards. Focuses on one- and two-family structures. F

BLD152 Building Codes 2
3 class hr/wk, 3 cr.
Studies the scope, meaning, and use of the Model International Building Code concerning areas that present hazards in building construction such as vertical shafts, treatment of exterior and interior surfaces, detailed exit requirements, fire protection systems, public property and weather protection. Prerequisite: BLD151 with a grade of C or better; or consent of instructor. W

BLD153 Building Codes 3
3 class hr/wk, 3 cr.
Provides a comprehensive review of the International Building Code including pedestrian protection, permanent occupancy, prefabricated construction, fire systems, energy conservation, and architectural barriers. Prerequisite: BLD152 with a grade of C or better; or consent of instructor. Sp

BLD155 Building Department Administration 1
4 class hr/wk, 4 cr.
Discusses purpose and procedures of building department administration. Explores building department organization and relationships with other departments, leadership of the building official, personnel management of staff, and public and customer relations. W

BLD158 Construction Materials and Blueprints
1 class and 2 lab hr/wk, 2 cr.
Provides instruction in reading civil, architectural, structural, mechanical, plumbing, and electrical construction drawings used in residential and commercial construction. Introduces terminology, abbreviations, symbols, scales and dimensioning, construction notes, and component schedules. Gives an explanation of plan views, elevations, cross-sections, and sectional details. Covers material characteristics common to the different construction trades and regulated by the International Building Code. F

BLD161 Structural Inspection 1
3 class hr/wk, 3 cr.
Introduces basic methods of wood and steel framing. Explores the various uses of conventional sawn lumber, manufactured lumber products, and newly developed materials. Covers allowable stresses, loads, and fundamental design of construction systems. Introduces building inspection principles, safety practices, and technologies used. W

BLD163 Structural Inspection 2
3 class hr/wk, 3 cr.
Introduces concrete and masonry as construction materials and covers the specific code requirements for related types of construction, both structural and nonstructural. Covers physical properties, including mix design, handling, storage, delivery, placement, and their fire-resistive qualities. Sp

BLD170 ADA Accessibility Code
3 class hr/wk, 3 cr.
Provides a comprehensive review of the International Building Code related to ADA accessibility standards in new and remodeled facilities. Sp

BLD171 Mechanical Codes 1
3 class hr/wk, 3 cr.
Introduces the thermodynamics of heat and how it relates to the mechanical appliance. Examines the International Mechanical Codes general code requirements for heating, ventilation, and air conditioning equipment. Studies the fuel gas piping system from the gas meter to the appliance, and the combustion air requirements for appliances that burn gas fuel. Stresses evaluation of appliances and equipment for its listing and installation instruction for residential applications and commercial applications. W

BLD181 Mechanical Codes 2
3 class hr/wk, 3 cr.
Examines the mechanical code requirements for chimneys and vents serving fuel burning appliances and equipment; special solid fuel and fuel gas burning appliances and equipment; kitchen hoods, grease ducts, hazardous exhaust ducts, and product conveying ducts; refrigerants, refrigeration systems, and refrigeration mechanical rooms; boilers, hot water heaters, and pressure vessels; hydronic piping and solar heating systems; and fuel oil piping and storage tanks. Prerequisite: BLD181 with a grade of C or better; or consent of instructor. Sp

BLD193A Building Inspection Lab
6 lab hr/wk, 2 cr.
Provides code standards and conditions typical of building inspection work for inspectors in the following areas: mechanical inspection, structural inspection, and one- and two-family dwelling codes. Stresses writing correction notices based upon field observations. Sp

BLD255 Building Department Administration 2
4 class hr/wk, 4 cr.
Discusses building department administration roles and responsibilities. Examines laws and principles that affect building department records management, budgeting, information technology, and legal aspects. Prerequisite: BLD155 with a grade of C or better; or consent of instructor. Sp

BLD260 Fire Protection for Buildings
4 class hr/wk, 4 cr.
Covers the installation, function, location, and purpose of sprinkler systems. Sp

BLD266 Structural Plan Review
2 class and 2 lab hr/wk, 3 cr.
Covers the fundamentals of structural plan review. Includes analysis of beams, columns, and connections. Prerequisite: BLD269 with a grade of C or better; or consent of instructor. W, Sp
BLD267 Non-Structural Plan Review 2 class and 2 lab hr/wk, 3 cr. Examines the techniques and processes of non-structural plans. Includes familiarization with plan and construction documents, specifications, and the application of fire, life and safety code requirements. Prerequisite: BLD 269 with a grade of C or better; or consent of instructor. W, Sp

BLD268 Foundations, Excavation, and Grading 3 class hr/wk, 3 cr. Covers the fundamentals of and the code requirements for regulating excavations and fills for any building or structure, construction of foundation and retaining structures, and general grading. Presents code requirements and emphasizes application to plan review and inspection functions. Uses grading and building plans and soil reports to complement the codes. Prerequisite: MTH052 with a grade of C or better; or consent of instructor. F

BLD269 Engineering for Code Professionals 1 4 class hr/wk, 4 cr. Studies static forces and their effect upon rigid bodies at rest, including a study of stresses and strains that occur in these bodies when subjected to tensile, compressive, and shearing forces. Prerequisite: MTH052 with a grade of C or better; or equivalent course as determined by instructor; or consent of instructor. F

BLD270 Engineering for Code Professionals 2 4 class hr/wk, 4 cr. Studies dynamic wind and seismic loads on structures and their reduction to simplified equivalent static forces used in the design of structures. Covers how to determine the required lateral load path elements: diaphragms, shear walls, and foundations used to resist lateral forces. Emphasizes code requirements of Chapter 16 Section 1609 for wind and Sections 1613 through 1623 of the Oregon Structural Specialty Code (2003 IBC). Uses the Western Woods Use Book related to lateral design. Also studies the design, fabrication, and erection of structural steel for buildings and structures. Emphasizes code requirements of Oregon Structural Specialty code Chapter 22 and the American Institute of Steel Construction Steel Manual. Prerequisite: BLD269 with a grade of C or better; or consent of instructor. W

BLD273 International Fire Codes for Building Departments 3 class hr/wk, 3 cr. Relates the International Fire Code to plan review and inspections for building construction. Correlates the Fire Code with the fire provisions in the International Building Code. Prerequisite: BLD153 with a grade of C or better; or consent of instructor. F, Offered as needed

BLD280A-L Cooperative Work Experience See CWE-Cooperative Work Experience BLD292 is no longer offered. Replaced by BLD141 & BLD142. BLD292 International Residential Code (Structural) 3 class hr/wk, 3 cr. Covers the structural portion of the International Residential Specialty Code as it relates to residential construction and other applicable codes. F

Business Technology

BT104 Business English 1 3 class hr/wk, 3 cr. Emphasizes basic English skills, including parts of speech, sentence patterns, and terminal punctuation. Covers common mistakes with nouns, pronouns, and verbs. Applies these skills to writing and speaking in clear, concise sentences. F, W

BT105 Business English 2 3 class hr/wk, 3 cr. Emphasizes effective business writing by focusing on proper grammar, punctuation, and sentence structure. Covers the writing of business-related paragraphs. Prerequisite: BT104 with a grade of C or better; or consent of instructor. W, Sp

BT112 Proofreading and Editing 3 class hr/wk, 3 cr. Presents effective proofreading techniques emphasizing spelling, word division, capitalization, abbreviations, numbers, grammar, punctuation, and formatting. Includes practical applications and use of an office reference manual while utilizing editing and pre-transcription skills. Prerequisite: BT105 with a grade of C or better; or consent of instructor. Offered as needed

BT112A Proofreading and Editing A 1 class hr/wk, 1 cr. Presents effective proofreading techniques emphasizing spelling, word division, capitalization, abbreviations, numbers, grammar, punctuation, and formatting. Includes practical applications and use of an office reference manual while utilizing editing and pre-transcription skills. Prerequisite: BT105 with a grade of C or better; or consent of instructor. Offered as needed

BT112B Proofreading and Editing B 1 class hr/wk, 1 cr. Presents effective proofreading techniques emphasizing spelling, grammar, punctuation, and formatting. Includes practical applications and use of an office reference manual while utilizing editing and pre-transcription skills. Prerequisite: BT112A with a grade of C or better; or consent of instructor. Offered as needed

BT116 Office Procedures 3 class hr/wk, 3 cr. Introduces administrative support activities. Includes discussion of human relation issues, telephone usage, development of effective listening skills, mailing and shipping services, preparation of financial records, plans for meetings and conferences, travel arrangements, scheduling appointments, office careers, and preparation of a job application and basic resume. F, W

BT123 Minute-Taking, Level 1 2 class hr/wk, 2 cr. Provides instruction for taking minutes at formal and semi-formal meetings. Includes preparation prior to a meeting, tasks involved during the meeting, and duties once the meeting is finished. Prerequisite: BT105 with a grade of C or better; or consent of instructor. Sp

BT128 Records Management 3 class hr/wk, 3 cr. Presents principles and procedures for efficient organization and control of business records. Covers the management of creation, maintenance, storage, and disposition of records. Includes practice in alphabetic and numeric filing systems of correspondence and other papers. Introduces MS Windows operating systems software currently used in business and industry. Includes exploring, organizing, and managing electronic records and files. W, Sp

BT186 Personal and Professional Development 3 class hr/wk, 3 cr. Emphasizes the personal and professional strengths sought by employers in hiring and promoting employees. Promotes individual self-assessment as a tool to compare those traits with the student’s own personal and professional strengths and weaknesses. Offers opportunities to develop step-by-step approaches toward enhancing professional marketability. F, W
Computer Applications

CA100 Beginning Computing
3 class hr/wk, 3 cr.
Explores computer concepts and practical applications for a wide range of uses in both personal and career environments. Covers operating systems, file management, Cloud computing, various applications, Internet/Social Media, and various computer devices. Prerequisite: Touch keyboarding ability; or consent of instructor. F, W, Sp, Su

CA102 Practical Computing
2 class hr/wk, 2 cr.
Covers basic file management, word processing, spreadsheets, and presentations. Focuses on the skills necessary to be productive in both work and personal environments via a variety of computer devices. W, Sp, Su

CA117 Microsoft Publisher
3 class hr/wk, 3 cr.
Introduces Microsoft Publisher publication software. Includes formatting and enhancing text, working with art, using design gallery and drawing tools, as well as using the catalog feature for creating publications. Includes using styles; flowing text into multiple columns; creating drop caps and reversed text; and using Border Art, Word Art, and text wrap. Covers features for improving publications design and creating multiple-page publications. Prerequisite: BA131 or CA100, either with a grade of C or better; or consent of instructor. F, Sp

CA118A Microsoft Windows Basics
1 class hr/wk, 1 cr.
Introduces MS Windows operating systems software currently used in business and industry. Includes exploring and managing disk organization and using apps. Offered as needed

CA118B Excel Basics
3 class hr/wk, 3 cr.
Introduces building and editing worksheets, formatting and printing worksheets, working with formulas and functions, and charting in MS Excel. Introduces sorting, filtering, and analyzing list data; enhancing worksheets and charts; and sharing MS Excel files. Includes what-if analysis, macros, PivotTables and PivotCharts, linking, embedding, and exploring MS Excel options. Prerequisite: CA118B1 with a grade of C or better; or consent of instructor. Offered as needed

CA118B2 Excel Basics 2
1 class hr/wk, 1 cr.
Reinforces basic Excel functions. Introduces sorting, filtering, and analyzing list data; enhancing worksheets and charts; and sharing MS Excel files. Prerequisite/Corequisite: CA118B1 with a grade of C or better; or consent of instructor. Offered as needed

CA118B3 Excel Basics 3
1 class hr/wk, 1 cr.
Continues the reinforcement of Excel functions. Includes what-if analysis, macros, PivotTables and PivotCharts, linking, embedding, and exploring MS Excel options. Prerequisite: CA118B2 with a grade of C or better; or consent of instructor. Offered as needed

CA118C1 Access Basics 1
1 class hr/wk, 1 cr.
Introduces database basics for forms design, data entry, queries, tables, and reports. Prerequisite: BA131 or CA100, either with a grade of C or better; or consent of instructor. W, Sp, Su

CA118C2 Access Basics 2
1 class hr/wk, 1 cr.
Introduces basic database skills. Introduces multiple table and action queries; forms and sub-forms; and importing, exporting, and publishing data. Prerequisite/Corequisite: CA118C1 with a grade of C or better; or consent of instructor. Sp

CA118D Internet for Office Environment
1 class hr/wk, 1 cr.
Introduces the Internet and demonstrates how this resource may be used effectively in a modern office. Emphasizes finding and citing information currently needed by office professionals. Prerequisite: CA118A; and CIS101 or CA100, or consent of instructor. (All prerequisites must be completed with a grade of C or better.) Offered as needed

CA118E Email and Personal Information Manager Basics
1 class hr/wk, 1 cr.
Introduces personal information management software currently used in business and industry. Covers electronic messaging (email management), use of the address book, and calendar and task management. Prerequisite: Computer literacy (prior experience with computer and mouse device) and touch keyboarding ability; or consent of instructor. Offered as needed

CA118F PowerPoint Basics 1
1 class hr/wk, 1 cr.
Introduces MS PowerPoint presentation software with an emphasis on designing and formatting business-related presentations. Prerequisite: BA131 or CA100, either with a grade of C or better; or consent of instructor. Sp
CA119 Office Desktop Publishing
1
4 class hr/wk, 4 cr.
Introduces publication planning, typography, publication design principles, and hands-on desktop publishing preparation of office publications. Includes the features of text threading, layers, frames, kerning, and tracking. Prerequisite: BA131 or CA100; and CA121; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W

CA121 Keyboarding
3 class hr/wk, 3 cr.
Prerequisite: CA121 with a grade of C or better; or touch keyboarding ability of 25 words per minute. CA121 with a grade of C or better; or consent of instructor. Offered as needed

CA122 Keyboarding Skillbuilding A
1 class hr/wk, 1 cr.
Prerequisite/Corequisite: CA122A with a grade of C or better; or consent of instructor. Offered as needed

CA122A Keyboard Skillbuilding A
1 class hr/wk, 1 cr.
Improves keyboarding skill, including keyboard (alphabetic and numeric) proficiency, speed, and accuracy. Focuses on reaches, concentration, frequently used words, punctuation, and pacing drills. Serves as preparation for production keyboarding as well as general skill development. Course may be repeated for a maximum of six (6) credits. Prerequisite/Corequisite: CA121 with a grade of C or better; or consent of instructor. Offered as needed

CA122B Keyboard Skillbuilding B
1 class hr/wk, 1 cr.
Improves keyboarding skill, including keyboard (alphabetic and numeric) proficiency, speed, and accuracy. Focuses on reaches, concentration, frequently used words, punctuation, and pacing drills. Serves as preparation for production keyboarding as well as general skill development. Course may be repeated for a maximum of two (2) credits. Prerequisite/Corequisite: CA122A with a grade of C or better; or consent of instructor. Offered as needed

CA122C Keyboard Skillbuilding C
1 class hr/wk, 1 cr.
Improves keyboarding skill, including keyboard proficiency (alphabetic and numeric), speed, and accuracy. Focuses on numeric, frequently misspelled words, alternate hand, double letter, right and left hand, and pacing drills. Serves as preparation for production keyboarding as well as general skill development. Course may be repeated for a maximum of two (2) credits. Prerequisite/Corequisite: CA122B with a grade of C or better; or consent of instructor. Offered as needed

CA121A Keyboarding A
1 class hr/wk, 1 cr.
Reviews alphabetic keyboarding and emphasizes the development of speed and accuracy in touch keyboarding. Introduces number and symbol keys, including the numeric keypad. Prerequisite/Corequisite: CA121A with a grade of C or better; or touch keyboarding ability of 15 words per minute for two minutes with three or fewer errors; or consent of instructor. Offered as needed

CA121B Keyboarding B
1 class hr/wk, 1 cr.
Covers basic touch keyboarding of the alphabetic keys for the standard microcomputer keyboard. Offered as needed

CA121C Keyboarding C
1 class hr/wk, 1 cr.
Focuses on numeric, frequently misspelled words, alternate hand, double letter, right and left hand, and pacing drills. Serves as preparation for production keyboarding as well as general skill development. Course may be repeated for a maximum of two (2) credits. Prerequisite/Corequisite: CA121B with a grade of C or better; or touch keyboarding ability of 20 words per minute for two minutes with three or fewer errors; or consent of instructor. Offered as needed

CA121D Microsoft Word Processing 1
3 class hr/wk, 3 cr.
Prerequisite/Corequisite: CA121D with a grade of C or better; and touch keyboarding ability of 35 words per minute. CA121D with a grade of C or better; and consent of instructor. Offered as needed

CA121D1-D3 Microsoft Word 1, Parts 1-3
1 class hr/wk, 1 cr. each
3 class hr/wk, 3 cr.
CA121D with a grade of C or better; and touch keyboarding ability of 35 words per minute. CA121D with a grade of C or better; and touch keyboarding ability of 35 words per minute. CA121D with a grade of C or better; and touch keyboarding ability of 35 words per minute. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

CA121E Microsoft Word Processing 2
3 class hr/wk, 3 cr.
Prerequisite/Corequisite: CA121E with a grade of C or better; and touch keyboarding ability of 35 words per minute. CA121E with a grade of C or better; and touch keyboarding ability of 35 words per minute. CA121E with a grade of C or better; and touch keyboarding ability of 35 words per minute. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

CA201D Microsoft Word
3 class hr/wk, 3 cr.
Prerequisite/Corequisite: CA201D with a grade of C or better; and touch keyboarding ability of 35 wpm. CA201D with a grade of C or better; and touch keyboarding ability of 35 wpm. CA201D with a grade of C or better; and touch keyboarding ability of 35 wpm. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

CA201D1-D3 Microsoft Word 1, Parts 1-3
1 class hr/wk, 1 cr. each
3 class hr/wk, 3 cr.
CA201D with a grade of C or better; and touch keyboarding ability of 35 words per minute. CA201D with a grade of C or better; and touch keyboarding ability of 35 words per minute. CA201D with a grade of C or better; and touch keyboarding ability of 35 words per minute. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

CA202D Microsoft Word Processing 2
3 class hr/wk, 3 cr.
Prerequisite/Corequisite: CA202D with a grade of C or better; and touch keyboarding ability of 35 wpm. CA202D with a grade of C or better; and touch keyboarding ability of 35 wpm. CA202D with a grade of C or better; and touch keyboarding ability of 35 wpm. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

CA201D Microsoft Word
3 class hr/wk, 3 cr.
Offers intermediate word processing training using Microsoft Word software for persons with prior basic skills and knowledge of word processing. Prerequisite: BA201D with a grade of C or better; and touch keyboarding ability of 35 wpm; or consent of instructor. W

CA202D1-D3 Microsoft Word 2, Parts 1-3
1 class hr/wk, 1 cr. each
3 class hr/wk, 3 cr.
CA202D1 with a grade of C or better; and touch keyboarding ability of 35 wpm; or consent of instructor. W

CA202E Microsoft Word Processing 2
3 class hr/wk, 3 cr.
Prerequisite/Corequisite: CA202E with a grade of C or better; and touch keyboarding ability of 35 wpm. CA202E with a grade of C or better; and touch keyboarding ability of 35 wpm. CA202E with a grade of C or better; and touch keyboarding ability of 35 wpm. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

CA201E Microsoft Word
3 class hr/wk, 3 cr.
Offers intermediate word processing training using Microsoft Word software for persons with prior basic skills and knowledge of word processing. Prerequisite: BA201E with a grade of C or better; and touch keyboarding ability of 35 wpm; or consent of instructor. W

CA202E1-D3 Microsoft Word 1, Parts 1-3
1 class hr/wk, 1 cr. each
3 class hr/wk, 3 cr.
CA202E1 with a grade of C or better; and touch keyboarding ability of 35 wpm; or consent of instructor. W

CA202E Microsoft Word Processing 2
3 class hr/wk, 3 cr.
Offers intermediate word processing training using Microsoft Word software for persons with prior basic skills and knowledge of word processing. Prerequisite: BA202E with a grade of C or better; and touch keyboarding ability of 35 wpm; or consent of instructor. W

CA201E Microsoft Word
3 class hr/wk, 3 cr.
Offers intermediate word processing training using Microsoft Word software for persons with prior basic skills and knowledge of word processing. Prerequisite: BA201E with a grade of C or better; and touch keyboarding ability of 35 wpm; or consent of instructor. W

CA202E1-D3 Microsoft Word 1, Parts 1-3
1 class hr/wk, 1 cr. each
3 class hr/wk, 3 cr.
CA202E1 with a grade of C or better; and touch keyboarding ability of 35 wpm; or consent of instructor. W

CA201E Microsoft Word
3 class hr/wk, 3 cr.
Offers intermediate word processing training using Microsoft Word software for persons with prior basic skills and knowledge of word processing. Prerequisite: BA201E with a grade of C or better; and touch keyboarding ability of 35 wpm; or consent of instructor. W
CA213 Integrating Office Procedures  
3 class hr/wk, 3 cr.  
Brings together the knowledge, skills, and abilities required of one-year Business Technology students, and serves as a review for students continuing for a degree. Uses a business simulation to reinforce and expand computer and other office skills.  
**Prerequisite:** BT116, CA118B, CA201D; and BA131 or CA100; and BT210 and CA118C1 (or concurrent enrollment in both courses); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

CA219 Office Desktop Publishing 2  
2 class hr/wk, 2 cr.  
Focuses on publication planning, typography, publication design principles, and hands-on desktop publishing preparation of office publications. Includes the features of color, graphics, tables, transparency, books, and exporting to PDF files using Adobe InDesign.  
**Prerequisite:** CA119 with a grade of C or better; or consent of instructor.  
**Offered as needed**

CA220 QuickBooks Computer Bookkeeping  
3 class hr/wk, 3 cr.  
Introduces computerized accounting principles using QuickBooks, including setup, managing revenue and expenses, payroll, bank reconciliation, financial statements, inventory, and file maintenance.  
**Prerequisite:** BA115 or BA211, either with a grade of C or better; or consent of instructor. F, W

CA225 Advanced Document Production  
3 class hr/wk, 3 cr.  
Covers development of correct formats for business reports, letters, memos, tabbed columns, and forms. Uses a variety of input methods, such as dictation and printed rough drafts. Develops basic skill in the transcription of recorded documents. Stress application of language arts skills. Develops the skill to produce documents accurately within specified time.  
**Prerequisite:** BT105, BT112, CA122, and CA201D; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, Sp

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Computer-Aided Manufacturing

CA201D Advanced Document  
3 lab hr/wk, 1 cr.  
Covers basic knowledge of various manufacturing processes and materials. Covers processes involving hand tools, machine tools, measuring, inspection, and blueprints. Includes manufacturing procedures. Provides knowledge of industry standard roles in a manufacturing setting.  
**Offered as needed**

CA205 Orientation to Manufacturing Processes  
1 class and 2 lab hr/wk, 2 cr.  
Provides basic knowledge of various manufacturing processes and materials. Covers processes involving hand tools, machine tools, measuring, inspection, and blueprints. Includes manufacturing procedures. Provides knowledge of industry standard roles in a manufacturing setting.  
**Prerequisite:** Consent of instructor. Offered as needed

CA207 Blueprint Reading and Sketching  
2 class hr/wk, 2 cr.  
Provides instruction and skill development in engineering print reading, sketching, basic drawing techniques, and geometric constructions. F

CA210 Blueprint Reading and Sketching  
2 class and 6 lab hr/wk, 4 cr.  
Introduces the fundamentals of drafting, reading, and interpreting engineering drawings and performing related operational tasks. For students already familiar with blueprint reading and sketching, or those only needing to review these skills. F, W

CA211 Industrial Safety Seminar  
1 class hr/wk, 1 cr.  
Details the joint responsibility of the company and employee in complying with federal and state safety regulations pertaining to health and safety in the workplace.  
**Offered as needed**

CA215 Geometric Dimensioning/ Tolerancing  
2 class hr/wk, 2 cr.  
Covers geometric dimensioning and tolerancing principles based on ANSI/ASME standards. Includes computation of tolerance values required insuring proper fit and function. Emphasizes measurement and inspection required to match design specifications.  
**Prerequisite:** CAM105 or CAM130, either with a grade of C or better; and print reading experience as confirmed by instructor; or consent of instructor. W

CA216 Manual Milling Processes  
3 class hr/wk, 3 cr.  
Covers basic principles of manual milling practices, work-holding methods, cutter identification, selection, and use; speeds and feeds; adapters, and tool holders and application. Includes operation of vertical and horizontal manual milling machines, and applying related operational theory.  
**Prerequisite:** CAM112 with a grade of C or better; or consent of instructor. W

CA218 Industrial Safety Seminar  
1 class hr/wk, 1 cr.  
Details the joint responsibility of the company and employee in complying with federal and state safety regulations pertaining to health and safety in the workplace.  
**Offered as needed**

CA220 Blueprint Reading and Sketching  
2 class and 6 lab hr/wk, 4 cr.  
Provides practical practice in the CAD/CAM program to refine previously learned skills. Includes projects or exercises as determined by student and instructor.  
**Prerequisite:** Consent of instructor. Offered as needed

CA222 Blueprint Reading and Sketching  
2 class and 6 lab hr/wk, 4 cr.  
Includes projects or exercises as determined by student and instructor.  
**Prerequisite:** Consent of instructor. Offered as needed

CA225 Advanced Document Production  
3 class hr/wk, 3 cr.  
Covers development of correct formats for business reports, letters, memos, tabbed columns, and forms. Uses a variety of input methods, such as dictation and printed rough drafts. Develops basic skill in the transcription of recorded documents. Stress application of language arts skills. Develops the skill to produce documents accurately within specified time.  
**Prerequisite:** BT105, BT112, CA122, and CA201D; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, Sp

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CAM050 Orientation to Manufacturing Processes  
1 class and 2 lab hr/wk, 2 cr.  
Provides basic knowledge of various manufacturing processes and materials. Covers processes involving hand tools, machine tools, measuring, inspection, and blueprints. Includes manufacturing procedures. Provides knowledge of industry standard roles in a manufacturing setting.  
**Offered as needed**

CAM051 Manual Machining  
Projects 1  
3 lab hr/wk, 1 cr.  
Provides practice in the manual machine shop to refine previously learned skills. Includes projects or exercises as determined by student and instructor.  
**Su**

CAM052 Manual Machining  
Projects 2  
6 lab hr/wk, 2 cr.  
Provides practice in the manual machine shop to refine previously learned skills. Includes projects or exercises as determined by student and instructor.  
**Su**

CAM053 Manual Machining  
Projects 3  
9 lab hr/wk, 3 cr.  
Provides practice in the manual machine shop to refine previously learned skills. Includes projects or exercises as determined by student and instructor.  
**Su**

CAM054 Manual Machining  
Projects 4  
12 lab hr/wk, 4 cr.  
Provides practice in the manual machine shop to refine previously learned skills. Includes projects or exercises as determined by student and instructor.  
**Su**

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CAM061 Practical Applications 1  
3 class hr/wk, 2 cr.  
Provides practice in the CAD/CAM program to refine previously learned skills. Includes projects or exercises as determined by student and instructor.  
**Prerequisite:** Consent of instructor. F, W, Sp

CAM062 Practical Applications 2  
6 lab hr/wk, 2 cr.  
Provides practice in the CAD/CAM program to refine previously learned skills. Includes projects or exercises as determined by student and instructor.  
**Prerequisite:** Consent of instructor. F, W, Sp

CAM063 Practical Applications 3  
9 lab hr/wk, 3 cr.  
Provides practice in the CAD/CAM program to refine previously learned skills. Includes projects or exercises as determined by student and instructor.  
**Prerequisite:** Consent of instructor. F, W, Sp

CAM064 Practical Applications 4  
12 lab hr/wk, 4 cr.  
Provides practice in the CAD/CAM program to refine previously learned skills. Includes projects or exercises as determined by student and instructor.  
**Prerequisite:** Consent of instructor. Offered as needed
CAM121 Manual Lathe Processes
2 class and 6 lab hr/wk, 4 cr.
Introduces turning operations as related to manual turning machines with emphasis on work holding methods and tool holding/selection methods. Covers related hole-making processes, face cutting, grooving, and parting. Includes operation of manual lathes, and applying related operational theory. Prerequisite: CAM120 with a grade of C or better; or consent of instructor. Sp

CAM130 CNC Machine Setup/Operation
2 class and 6 lab hr/wk, 4 cr.
Focuses on application of the Computer Numerical Control (CNC) systems used in today's manufacturing environment. Includes hands-on experiences with both personal and manufacturing specific (CNC) tools to establish basic operational skills. F

CAM140 Metallurgy for Manufacturing
1 class and 3 lab hr/wk, 2 cr.
Studies basic metallurgy as it relates to manufacturing processes. Covers the identification of ferrous metals and non-ferrous metals and other materials used in industry. Includes mechanical and physical properties, powder metallurgy, heat treatment, alloying, crystalline structures, effects of machining, casting processes, testing processes. W

CAM150 Cutting Tools and Materials
1 class and 6 lab hr/wk, 3 cr.
Provides knowledge and skill development in the selection and application of product materials, tool coatings, and cutting tool materials used in manufacturing. Prerequisite/Corequisite: CAM121 with a grade of C or better; or consent of instructor. Sp

CAM160 Intermediate CNC Mill Operations and Programming
2 class and 6 lab hr/wk, 4 cr.
Introduces Computer Numerical Control (CNC) programming for milling applications and operations related to manufacturing. Prerequisite: CAM130 with a grade of C or better; or consent of instructor. W

CAM190 Intermediate CNC Lathe Operations and Programming
2 class and 6 lab hr/wk, 4 cr.
Introduces Computer Numerical Control (CNC) programming for lathe applications and operations related to manufacturing. Prerequisite: CAM130 and CAM160, each with a grade of C or better; or consent of instructor. Sp

CAM210 Advanced Mill Processes
2 class and 6 lab hr/wk, 4 cr.
Emphasizes production and assembly methods in manufacturing of parts. Includes advanced instruction in vertical milling and basic instruction in horizontal milling. Covers setup, operation, tool selection and application, calculating proper feed, speeds, and depth of cuts in the production of parts. Uses computers and manufacturing equipment to plan for and carry out assigned projects. Prerequisite: CAM120 and CAM121, each with a grade of C or better; or consent of instructor. W

CAM220 Advanced Lathe Processes
2 class and 6 lab hr/wk, 4 cr.
Covers advanced lathe theory and operations. Includes lathe settings, boring, single-point, threading, knurling, calculations, controls, taper attachments, follower rests, steady rests, advanced tooling, safety, and work-holding applications. Uses computers and manufacturing equipment to plan for and carry out assigned projects. Prerequisite: CAM121 with a grade of C or better; or consent of instructor. W

CAM225 Advanced Manual Integration
2 class and 6 lab hr/wk, 4 cr.
Introduces advanced production and assembly methods in manufacturing of parts. Includes advanced instruction on lathes and milling machines. Covers setup, operation, tool selection and application, proper feed, speeds, and depth of cuts in the production of parts. Uses computers and manufacturing equipment to plan and carry out assigned projects. Incudes advanced lathe theory and operations, lathe and mill settings, advanced tooling, safety, and work-holding applications. Prerequisite: CAM210 and CAM220, each with a grade of C or better; or consent of instructor. Sp

CAM230 CAM Programming Mills
1 class and 3 lab hr/wk, 2 cr.
Introduces the concepts and application of Computer Aided Manufacturing (CAM) software programs for creating CNC milling machine part programs. Prerequisite: CAM130, CAM160 or CAM190; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F

CAM235 Advanced CNC Mill Operations and Programming
1 class and 6 lab hr/wk, 3 cr.
Introduces advanced computer numerical control (CNC) programming and machine setups for turning applications and operations related to CNC machining. Prerequisite: CAM190 with a grade of C or better; or consent of instructor. F

CAM260 CAM Programming Lathes
1 class and 3 lab hr/wk, 2 cr.
Introduces the concepts and applications of Computer Aided Manufacturing (CAM) software programs for creating CNC lathe part programs. Prerequisite: CAM130; and CAM160 or CAM190; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

CAM265 Advanced CNC Lathe Operations and Programming
1 class and 6 lab hr/wk, 3 cr.
Introduces advanced computer numerical control (CNC) programming and machine setups for turning applications and operations related to CNC machining. Prerequisite: CAM235 with a grade of C or better; or consent of instructor. W

CAM275 Tool Design
1 class and 6 lab hr/wk, 3 cr.
Introduction to principles of tool design. Focuses on gaging, locating, clamping, and fixture design. Incorporates high production techniques and tooling. Prerequisite: DRF262 with a grade of C or better; or consent of instructor. Sp

CAM280B-L Cooperative Work Experience
See CWE–Cooperative Work Experience

CAM290 Advanced CAD/CAM Integrations
2 class and 6 lab hr/wk, 4 cr.
Emphasizes production and assembly methods in manufacturing of parts utilizing manual and CNC milling/turning machines. Includes setup, including 4th axis rotary tables; operation; tool selection and application; calculating proper feed; speeds; and depth of cuts in the production of parts. Also includes 3-D and 4th axis generated parts and transfer of Computer Aided Design (CAD) generated 2-D drawing solids and parametric models to a Computer Aided Manufacturing (CAM) system for manufacturing purposes. Prerequisite: CAM160, CAM190, CAM230, CAM235, CAM260, and CAM265; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

CAM295 Introduction to Lean Manufacturing
1 class hr/wk, 1 cr.
Introduces Lean concepts and practices present in today's highly advanced manufacturing facilities. Prerequisite: Second year standing in the CAD/CAM degree program; or consent of instructor. Sp
Counseling and Guidance
See also FYE—First Year Experience

CG090 Peer Assistance Training
3 class hr/wk, 3 cr.
Provides training in implementing communication skills, leadership qualities, referral techniques, and assistance in locating college and community-based resources and services as peer assistant. Students serve as resource personnel to refer other students with personal, social or academic concerns. Su

CG102A College Prep: International 1A
1 class hr/wk, 1 cr.
Introduces international students to information, resources, and strategies to be successful in the U.S. educational environment. Designed for beginning and intermediate non-native English speakers attending the Language and Culture Institute. F, W, Sp, Su

CG102B College Prep: International 1B
1 class hr/wk, 1 cr.
Focuses on information, resources and strategies international students need to successfully transition from language study to college study. Designed for advanced non-native English speakers attending the Language and Culture Institute. Prerequisite: CG102A with a grade of C or better; or consent of instructor. F, W, Sp, Su

CG103 College Prep: International 2
2 class hr/wk, 2 cr.
Familiarizes international students with information, resources, and strategies to be successful in the U.S. educational environment. Designed for full-time, first-term college-level students. F, W, Sp, Su

CG104 Your College Experience
3 class hr/wk, 3 cr.
Explores campus resources, links students to academic and social support systems. Identifies college academic expectations, evaluates personal readiness for college challenges, creates personal education plans, and connects students with peers, mentors and key staff/faculty for college success. Prerequisite: High school students registered with the Office of High School Programs. Offered as needed

CG110 Career and Life Planning
2 class hr/wk, 2 cr.
Introduces students to strategies and procedures for effective career decision making. Provides assessment of individual personality style/traits, interests, skills/abilities, expectations, and values. Introduces methods and resources for conducting occupational research. F, W

CG114 Career and Life Development
3 class hr/wk, 3 cr.
Provides strategies to integrate the personal, educational, and occupational elements of career and life development. Introduces the life-long process of career planning and transitions. Includes assessment of experiences, interests, skills, values, and personality, and how these can influence career choice. Covers planning for education and training, decision making, and planning short-, medium-, and long-range career plans. Recommended: Placement into RD090 and WR090, or completion of each with a grade of C or better. F, W, Sp, Su

CG130A Career Exploration and Planning
1 class hr/wk, 1 cr.
Uses an individualized study approach to select and explore career identification and decision-making process. Includes evaluation of individual personality type, interests, skills, values and work-related preferences. Prerequisite: College-level reading and writing skills. F, W, Sp

CG130B Career Exploration and Planning
2 class hr/wk, 2 cr.
Uses an individualized study approach to provide information and resources needed in the careers exploratory process. Explores and assesses how interests, skills, values and personality type influence career choice. Includes career research references as well as on job and labor market trends. Prerequisite: College-level reading and writing skills. F, W, Sp

CG130C Career Exploration and Planning
3 class hr/wk, 3 cr.
Uses an individualized study approach to provide information, instruments, and resources useful in exploring and determining career and life decisions. Offers a personal framework for career or life planning. Includes selection of various career components involving assessment, research, planning, decision-making process and educational or training objectives. F, W, Sp

CG225 Four-Year College Transition
2 class hr/wk, 2 cr.
Identifies criteria to use in selecting a college and major, and the connection between the transfer student’s current college and four-year colleges. Provides strategies and information to assist in the transition to the four-year college systems. F, W

Chemistry

CH104 Chemistry for Allied Health
3 class, 2 lab and 1 recitation hr/wk, 5 cr.
Focuses on general chemistry with emphasis on the applications of chemical principles to the life sciences. Designed for Nursing, Dental Hygiene, EMT, and other Allied Health students who plan to pursue careers in the health science professions. Topics include structure and properties of matter, energy, atomic structure and bonding, gas laws, and chemical reactions. First term of a three-term sequence dealing with the molecular basis for life. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH111 (or higher); or completion of MTH095 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Offered as needed

CH105 Chemistry for Allied Health
3 class, 2 lab and 1 recitation hr/wk, 5 cr.
Covers the molecular basis for life. Designed for Nursing, Dental Hygiene, EMT, and other Allied Health students who plan to pursue careers in the health science professions. Topics include solutions and colloids; reaction rates and equilibrium; acids and bases and their regulation in the body; saturated and unsaturated hydrocarbons; alcohols, ethers, aldehydes, ketones, carboxylic acids and esters, amines and amides. Second term of a three-term sequence. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of CH104; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, Sp

CH106 Chemistry for Allied Health
3 class, 2 lab and 1 recitation hr/wk, 5 cr.
Covers the molecular basis for life. Designed for Nursing, Dental Hygiene, EMT, and other Allied Health students who plan to pursue careers in the health science professions. Topics include carbohydrates; lipids; proteins; enzymes, vitamins, and hormones; pathways of metabolism; and nucleic acids. Third term of a three-term sequence. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and CH105; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp
CH110 Foundations of General, Organic, and Biochemistry
3 class, 2 lab and 1 recitation hr/wk, 5 cr.
Provides an introduction to chemical principles and their applications, with a focus on the role of chemistry in living organisms. Prerequisite: Placement into WR115 (or higher); or completion of WR090 (or higher); or placement into MTH111 (or higher); or completion of MTH095 (or higher, except MTH098 and MTH105); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, S, Su

CH114 Chemistry in Art
3 class and 3 lab hr/wk, 4 cr.
Introduction to chemistry designed specifically for the non-science student. Offers a broad, non-quantitative descriptive survey of scientific principles relevant to art and art-related topics such as light, color, pigments, dyes, solubility, acidity, oxidation, and polymers. Emphasizes an interdisciplinary perspective on chemistry. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

CH115 Chemistry in Society
3 class and 3 lab hr/wk, 4 cr.
Introduces a chemistry survey designed specifically for the non-science student. Emphasizes the history of chemistry, its impact on society, and its connection to other disciplines. Covers topics such as the periodic table of the elements, scientific method, atomic structure and theory, acids and bases, chemical bonding, gases, nomenclature, and chemical reactions. Relates these concepts to history as well as current events. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

CH116 Chemistry in the Environment
3 class and 3 lab hr/wk, 4 cr.
Introduces organic chemistry including aliphatic, aromatics, function groups and their reactions, structure and chemistry of carbohydrates, lipids, proteins, and nucleic acids. Third of a three-term sequence. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

CH117 Chemistry in the Kitchen
3 class and 3 lab hr/wk, 4 cr.
Introduces basic understanding of molecular compound formations, changes of state, solutions and reaction rates. Covers quantitative composition; stoichiometry; the gaseous state; acids, bases and salts; oxidation-reduction reactions; nuclear chemistry; chemical equilibrium; and introduction to organic chemistry. Second of a three-term sequence. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) and completion of CH121; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W

CH121 College Chemistry 1
3 class, 2 lab and 1 recitation hr/wk, 5 cr.
Introduces the fundamentals of chemistry for students majoring in fields other than chemistry. Examines the interrelationships of chemistry to all disciplines of science. Covers scientific method, atomic theory, stoichiometry, energy, periodicity, atomic structure, and bonding. First of a three-term sequence. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH111 (or higher), or completion of MTH095 (or higher, except MTH098 and MTH105); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W

CH122 College Chemistry 2
3 class, 2 lab and 1 recitation hr/wk, 5 cr.
Provides basic understanding of molecular compound formations, changes of state, solutions and reaction rates. Covers quantitative composition; stoichiometry; the gaseous state; acids, bases and salts; oxidation-reduction reactions; nuclear chemistry; chemical equilibrium; and introduction to organic chemistry. Second of a three-term sequence. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) and completion of CH121; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, S

CH123 College Chemistry 3
3 class, 2 lab and 1 recitation hr/wk, 5 cr.
Provides guided study in topics and problem solving skills beyond that provided in CH201. Covers definitions, measurements, atomic nucleus, elements, compounds, binary nomenclature, gas laws, and chemical thermodynamics: heat, work and energy. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH111 (or higher), or completion of MTH095 (or higher, except MTH098 and MTH105); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F

CH201 Chemistry for Engineers 1
3 class and 3 lab hr/wk, 4 cr.
The first course in a two-semester sequence designed for engineering majors who intend to transfer to Oregon State University's engineering program. Covers definitions, measurements, atomic nucleus, elements, compounds, binary nomenclature, bonding models, solutions, redox, gas laws, and chemical thermodynamics: heat, work and energy. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH111 (or higher), or completion of MTH095 (or higher, except MTH098 and MTH105); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Recommended: Co-enrollment in CH211, consult with instructor. F

CH202 Chemistry for Engineers 2
3 class and 3 lab hr/wk, 4 cr.
Provides the second course of a two-semester sequence. Covers Lewis structures, VESPR theory, shapes and polarity of molecules, intermolecular forces, crystal structure, reaction rates, rate laws, reaction mechanisms, acids and bases, chemical equilibrium, spontaneous changes, free energy, voltaic and electrolytic cells, coordination compounds, organic structure, and polymer chemistry. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of CH201; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Recommended: Co-enrollment in CH212, consult with instructor. W

CH211 Chemistry for Engineers Prep 1
1 class hr/wk, 1 cr.
Provides guided study in topics and problem solving skills beyond that provided in CH201. Covers definitions, measurements, atomic nucleus, elements, compounds, binary nomenclature, gas laws, and chemical thermodynamics: heat, work and energy. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH111 (or higher), or completion of MTH095 (or higher, except MTH098 and MTH105); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.)
CH212 Chemistry for Engineers
Prep 2
1 class hr/wk, 1 cr.
Provides guided study in topics and problem solving skills beyond that provided in CH202. Covers Lewis structures, VESPR theory, shapes and polarity of molecules, intermolecular forces, crystal structure, reaction rates, rate laws, reaction mechanisms, acids and bases, chemical equilibrium, spontaneous changes, free energy, voltaic and electrolytic cells, coordination compounds, organic structure, and polymer chemistry. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. W

CH221 General Chemistry 1
3 class, 3 lab and 1 recitation hr/wk, 5 cr.
Introduces chemical concepts and experimental techniques to students majoring in scientific, engineering, and medical fields. Covers the history of chemical developments, measurements and their uncertainty, components of matter, chemical periodicity, chemical calculations using the mole concept, chemical reactions, kinetic-molecular theory of gases, energy flow, experiments on chemical systems, and atomic structure. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH112 (or higher); or completion into MTH111 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F

CH222 General Chemistry 2
3 class, 3 lab and 1 recitation hr/wk, 5 cr.
Covers periodic properties; molecular bonding, hybridization, and resonance; solutions and solids; intermolecular forces; rates of reactions; and organic polymers. Second of a three-term sequence designed for students majoring in scientific, engineering, and medical fields. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion CH221; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

CH223 General Chemistry 3
3 class, 3 lab and 1 recitation hr/wk, 5 cr.
Covers the rates and mechanisms of chemical reactions; fundamentals of chemical equilibrium; acid-base equilibria; ionic equilibria in aqueous systems; free energy concepts; voltaic/electrolytic cells; and metallurgical processes. Third of a three-term sequence designed for students majoring in scientific, engineering and medical fields. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of CH222; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

CH241 Organic Chemistry 1
4 class hr/wk, 4 cr.
Introduces the principles of organic chemistry for students majoring in the physical or life sciences. Emphasizes structure, nomenclature, physical properties and chemical reactivities of organic molecules. Stresses bonding, functional groups, alkanes and cycloalkanes, conformational analysis, stereochemistry, alkenes and alkynes. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of CH123 or CH223; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

CH242B Organic Chemistry Lab 1
3 lab hr/wk, 1 cr.
Offers a laboratory course to accompany CH242 Organic Chemistry for students majoring in physical and life sciences. Emphasizes microscale laboratory experiments related to reaction mechanisms, kinetics, spectroscopy, gas chromatography, and synthetic techniques. Students requiring lecture and lab credit for transfer must take CH242 and CH242B. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of CH241B; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

CH243 Organic Chemistry 3
4 class hr/wk, 4 cr.
Introduces the principles of organic chemistry for students majoring in the physical or life sciences. Emphasizes structure, nomenclature, physical properties and chemical reactivities of organic molecules, mechanisms of reactions, and discussion of their biological or industrial importance. Stresses carboxylic acids and their derivatives, amines, condensation reactions, carboxyls, lipids, amino acids, proteins and nucleic acids. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of CH242; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

CH243B Organic Chemistry Lab 3
3 lab hr/wk, 1 cr.
Offers a laboratory course to accompany CH243 Organic Chemistry for students majoring in physical and life sciences. Emphasizes microscale laboratory synthesis, spectroscopy, biological activity of organic compounds, and qualitative analysis of unknowns. Students requiring lecture and lab credit for transfer must take CH243 and CH243B. Prerequisite: Placement into WR115, or completion of WR090 (or higher); and completion of CH242B; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed
**Chinese**

**CHN101 First Year Chinese 1**  
4 class hr/wk, 4 cr.  
First course of a three-course sequence in introductory Mandarin Chinese language and culture class. Emphasizes effective communicative skills in both the written and spoken language. Includes an understanding of the practices and products of native Chinese culture. Helps the early beginning learner to acquire language proficiency as well as cultural awareness and understanding. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. **F, W, Sp, Su**

**CHN102 First Year Chinese 2**  
4 class hr/wk, 4 cr.  
Second course of a three-course sequence in introductory Mandarin Chinese language and culture class. Continues to emphasize effective communicative skills in both the written and spoken language, as well as an understanding of the practices and products of native Chinese culture. Expands the beginning learner's language proficiency as well as cultural awareness and understanding. **Recommended CHN101 with a grade of C or better. Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of Instructor. **W, Offered as needed**

**CHN103 First Year Chinese 3**  
4 class hr/wk, 4 cr.  
Third course of a three-course sequence in introductory Mandarin Chinese language and culture class. Includes additional expansion on effective communicative skills in both the written and spoken language, as well as the understanding of the practices and products of native Chinese culture. Continues to expand beginning learner's proficiency, as well as cultural awareness and understanding. **Recommended CHN102 with a grade of C or better. Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of Instructor. **Sp, Offered as needed**

**Computer Information Systems**

**CIS101 Computing Concepts**  
3 class hr/wk, 3 cr.  
Introduces the basic microcomputer hardware/software system. Covers the concepts of system software and application software, including word processing, spreadsheet, database, presentation and introduction to Internet and digital security. **Recommended: Placement into RD090 or higher. F, W, Sp, Su**

**CIS102A Cyber Security and Safety**  
4 class hr/wk, 4 cr.  
Provides basic knowledge of the security, political, social issues, and human factors concerning the use of current computer technologies. Covers how people are affected by computer security breaches and technology misuse. Discusses electronic voting, Radio Frequency Identification (RFID) tags, location-based tracking technologies, and the Digital Millennium Copyright Act (DMCA). Explores computer security exploits such as buffer overflow, Denial of Service, spoofing, viruses, Trojan Horses, phishing and pharming scams, and intrusion detection. Includes how to protect yourself from malicious computer activities. **Prerequisite:** CIS101 or CIS120, either with a grade of C or better; or equivalent knowledge as determined by instructor; or consent of instructor. **W, Su**

**CIS1120 Digital Literacy**  
4 class hr/wk, 4 cr.  
Introduces the basic elements of Digital Literacy as they develop the technology proficiency, information literacy, and media literacy necessary for safe use of digital technologies vital for success in today's digital world. Introduces terminology and issues dealing with personal computers and communication devices in a wide variety of settings. Topics include: basic computer concepts and history, computer hardware, operating systems, the Internet, online safety and security, e-mail, computer application software including word processors, spreadsheets, presentation graphics, databases, and the impact of computers on society. **F, W, Sp, Su**

**CIS120A Computer Info Sciences Pathway**  
1 class hr/wk, 1 cr.  
Exposes students to many different career opportunities in computer information sciences and computer technology, and assists with planning an academic pathway at Chemeketa Community College. **F, W, Sp**

**CIS121 Programming Concepts**  
4 class hr/wk, 4 cr.  
Introduces fundamental logic in designing specific algorithms for processing information typified by management information systems and the logical thought process used when programming. Covers structured programming and object-oriented programming concepts that include problem definition, generating a description of its step-by-step solution (the algorithm), writing the program, and finally documenting the program. **Prerequisite:** CIS120 with a grade of C or better; or consent of instructor. **F, W, Sp, Su**

**CIS125A Access—Database**  
3 class hr/wk, 3 cr.  
Provides the tools necessary to create and maintain a basic database using Microsoft Access. Includes navigation through Windows and Access menus; PC relational database concepts; creation and updating of a relational database; simple queries, reports and forms; complex queries, reports and forms. **Prerequisite:** CIS101 or CIS120, either with a grade of C or better; or consent of instructor. **F, W, Sp, Su**

**CIS125E Excel - Workbooks**  
4 class hr/wk, 4 cr.  
Provides the tools necessary to create and use basic spreadsheets presenting them in a multi-worksheet environment using Microsoft Excel. Includes concepts associated with data types; how to build effective workbooks for use in projection; and analysis of typical business situations. Includes workbook applications such as the use of arithmetic formulas, functions, proper formatting, macros, graphics, pivot tables, charts, and other analysis tools available in Microsoft Excel. Extends to Business Intelligence (Power BI) with Microsoft Excel as a database. Includes concepts such as defining data models, queries, and forecast projections using charts and trend analysis. **Prerequisite:** CIS101 or CIS120, either with a grade of C or better; or consent of instructor. **F, W, Sp, Su**

**CIS125G Introduction to Computer Game Development**  
4 class hr/wk, 4 cr.  
Surveys the field of computer game development, including a study of the history and business of computer gaming, computer game categories and platforms, and computer game technologies. Covers an overview of the game development process, and introduces game graphics. Provides complete game development lifecycle using a high-level game development framework to design and develop a computer game. **Recommended: CIS120 or CIS101, either with a grade of C or better. F, Sp**

**CIS133A Android Application Design**  
4 class hr/wk, 4 cr.  
Prepares students to design and build mobile applications for the Android platform. Covers mobile application design process, mobile app best practices for interactive media, the Android Studio IDE, Java programming language, major Android APIs and frameworks, and Android App deployment. **Prerequisite:** CIS121 with a grade of C or better; or consent of instructor. **W**
CIS133I iOS Application Design
4 class hr/wk, 4 cr.
Provides an introduction to developing native iOS applications (apps). Covers RIA (Rich Internet Applications), UI (User Interface) design, and using Swift programming language for iOS mobile apps. Includes resource management for iOS mobile apps and deployment of iOS mobile apps. Presents major Swift topics including views, controllers, animations, localization, and camera, as well as location-based services and sensors. Prerequisite: CIS121 with a grade of C or better; or consent of instructor. Sp

CIS133J Java Programming 1
4 class hr/wk, 4 cr.
Introduces Java programming language. Provides a conceptual understanding of object-oriented programming using Java. Covers the structure of the language, the manipulation of data and arrays, how to handle input and output, and how to create classes, objects, and applications. Prerequisite: MTH060; and CIS101 or CIS120, or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F

CIS133JS JavaScript Web Programming 1
4 class hr/wk, 4 cr.
Covers the fundamentals of JavaScript as a web programming language, including basic programming concepts as they apply to using and writing JavaScript. Focuses on learning to create interactivity using JavaScript with text and graphics. Provides the foundation for continuing with JavaScript in the Intermediate JavaScript course, and features current web-standards compliant techniques for using JavaScript. Prerequisite: CIS122, CIS195, or CIS178I; and any first term programming course including CIS133J, CIS133U, or CIS161; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

CIS133SC Scripting Languages
4 class hr/wk, 4 cr.
Provides the knowledge and skills necessary to write and maintain scripts which automate aspects of web functionality for both client side and server side computers. Covers scripting languages, hosts, and libraries, and Web development tools. Prerequisite: CIS121 with a grade of C or better; of consent of instructor. F, W

CIS133U C++ Language
4 class hr/wk, 4 cr.
Introduces the C++ programming language. Covers the structure of the language, manipulation of data, and arrays. Includes how to manage input and output functions. Prerequisite: CIS121 with a grade of C or better; or consent of instructor. Sp

CIS133VB Visual Basic- Programming
4 class hr/wk, 4 cr.
Continues use of the Visual Basic programming environment. Emphasizes application of event driven and structured problem solving and programming techniques to develop software. Introduces object-oriented programming, Web applications, and database access. Includes the design, coding, testing, and debugging of several problems. Prerequisite: CIS121 with a grade of C or better; or equivalent VB programming experience as determined by the instructor; or consent of instructor. W

CIS135AE Advanced Excel
4 class hr/wk, 4 cr.
Introduces Microsoft Excel 2016 programming concepts to the non-programmer user who is already proficient with the Excel user interface. Covers recording and editing macros, using variables, and constants, writing subroutines and functions, conditional statements, and various methods of coding loops to repeat actions. Introduces using Visual Basic for Applications script in Microsoft Excel 2016. Prerequisite: CIS125E with a grade of C or better; or consent of instructor. Sp, Su

CIS140B Computer Operating Systems
3 class hr/wk, 3 cr.
Studies operating systems currently used on microcomputers. Includes experience in using these operating systems to access files and communicate with other microcomputers. Discusses computer security basics relating to microcomputer operating systems and its users. Prerequisite: CIS101 or CIS120, either with a grade of C or better; or consent of instructor. W, Sp, Su

CIS140U UNIX/Linux
3 class hr/wk, 3 cr.
Covers the Unix operating system using Linux. Includes experience in using the Unix operating system to run a microcomputer, access files, and communicate with other microcomputers. Prerequisite: CIS101 or CIS120, either with a grade of C or better; or consent of instructor. F, Sp, Su

CIS145 Computer Hardware
4 class hr/wk, 4 cr.
Studies the hardware concepts necessary to install and maintain computers and computer peripherals. Explains the interface between software and varied device hardware including desktops, tablets, laptops, and various mobile devices. Prepares students to obtain the CompTIA A+ industry Certification exam. Prerequisite: CIS140B with a grade of C or better; or consent of instructor. Sp

CIS152 Routing and Switching
4 class hr/wk, 4 cr.
Introduces routing and switching technologies, including configuring a switch, a router, and connecting to a WAN and implementing network security. Focus is placed on routing and switching theory including RIP, IGRP, and OSPF routing protocols, distance vector and link state routing theory, routing loop issues and basic router and switch IOS concepts. Includes theory concepts directed towards the OSI model of encapsulation, TCP/IP basics, IP addressing, access lists and router and switch configurations. Demonstrate experience configuring common routers and switches. Builds a student's ability to use common networking devices and prepares them for the following industry certification exams: the current TestOut Switching and TestOut Routing industry exams. Prerequisite: CIS278 with a grade of C or better; or consent of instructor. Sp, Offered as needed

CIS178I Internet/World-Wide Web Design
3 class hr/wk, 3 cr.
Introduces the use and history of the global computer network known as the Internet or information superhighway. Explores the philosophy of the Internet, as well as its use as a tool for research, communication, and entertainment. Covers developing and publishing a simple web page on the World Wide Web. Prerequisite: CIS101 or CIS120, either with a grade of C or better; or consent of instructor. F, W, Sp, Su

CIS178W Fundamentals of Web Design
4 class hr/wk, 4 cr.
Covers fundamentals of responsive web design. Focuses on the overall production processes surrounding web site design. Emphasizes design elements involving layout, navigation, interactivity, usability, and search engine optimization. Prerequisite: CIS101 or CIS120, either with a grade of C or better; or consent of instructor. F, W

CIS179 Client-Server Networks
4 class hr/wk, 4 cr.
Introduces computer networks from an end-user perspective while providing a thorough study of clients in an enterprise environment. Includes hands-on experience installing, administering, and managing desktop software and resources including both local and domain accounts in the client-server network. Prepares students to obtain the Microsoft Certified Solutions Associate (MCTS) Certification. Prerequisite: CIS140B with a grade of C or better; or consent of instructor. Sp
CIS186 Computer Forensics
4 class hr/wk, 4 cr.
This course teaches the basics of computer forensics as it applies to personal computers and workstations, including how to obtain and analyze digital information for use as evidence in civil, criminal, or administrative cases. Prerequisite: CIS102A, CIS120, CIS140B, and CIS179; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, Su

CIS195 Web Site Development
4 class hr/wk, 4 cr.
Covers web site planning, organization, and implementation. Explores web development applications. Discusses HTML, style sheets, and basic scripting. Addresses accessibility, browsers compatibility, and globalization issues. Prerequisite: CIS178I with a grade of C or better; or consent of instructor. F, Sp, Su

CIS233J Java Programming 2
4 class hr/wk, 4 cr.
Continues the Fundamentals of Java Programming 1 course. Provides a conceptual understanding of encapsulation, polymorphism, and inheritance related to the object-oriented programming paradigm and Java. Covers the use of java.lang, java.util, java.applet, java.awt, and java.io packages to create program code. Includes documenting program code using the Javadoc interface and creating a Graphical User Interface (GUI) application using a visual Interface Development Environment (IDE). Prerequisite: CIS133J with a grade of C or better; or consent of instructor. W

CIS234J Java Programming 3
4 class hr/wk, 4 cr.
Continues the Fundamentals of Java Programming 2 course and serves as a capstone project course. Provides an overview of the Abstract Windowing Toolkit (AWT) from the Java platform to create programs with graphical user interface (GUI) components (buttons, checkboxes, text fields, etc.). Presents the mechanics for handling events and exceptions generated by GUI components. Covers a conceptual overview of connecting to a database such as SQL Server, Oracle, etc., and manipulate data from the same databases using the Java database connectivity (JDBC) application programmer interface (API). Prerequisite: CIS233J with a grade of C or better; or consent of instructor. Sp

CIS244 Systems Analysis 1
4 class hr/wk, 4 cr.
Covers basic administrative procedures. Includes the principles of organizing, planning, and administering a procedure program; methods of carrying out individual systems and procedures studies; procedure analysis and improvement techniques; the role of systems and procedures in business management; systems charting; work simplification and measurement. Brings together project elements and milestones using industry best practices to create specifications for an information systems project. Prerequisite: Second-year standing in the Computer Systems and Information Technology program. Sp

CIS275 Database Management
4 class hr/wk, 4 cr.
Designed to be broader than teaching specific database products or fourth generation languages. Addresses database development, a concept which includes data modeling, database design, and database implementation, and basic architecture and administration of Oracle, SQL Server, and MySQL databases. Identifies the entity-relationship and object data modeling techniques, and the importance of normalizing data models. Presents techniques of implementing these models into a relational database scheme. Introduces Structured Query Language (SQL). Prerequisite: CIS101 or CIS120, either with a grade of C or better; or consent of the instructor. F

CIS278 Data Communications
4 class hr/wk, 4 cr.
Examines computer networks and fundamental concepts in data communication including definition of terms, communicating concepts, comparison of voice and data communication, encapsulation and encryption, medium access, elementary data link protocols, topologies, servers, and operating system standards implemented in local area and wide area networks (LAN and WAN). Uses hands-on software activities related to protocols, switching, routing, and peer-to-peer networking. Students use the course materials as resources for preparing for the Network + industry certification exam. Prerequisite: CIS120 with a grade of C or better; or consent of instructor. W

CIS279 Server Management 1
4 class hr/wk, 4 cr.
Focuses on the logical design, construction, operation, maintenance, and management of a network using directory services. Includes installation of network servers, configuring and managing server roles, file and print services, network connectivity, group policies, system updates, and network security. Provides resources that can be used to prepare for the Microsoft Certified Solutions Associate (MCSA) Certification. Prerequisite: CIS179 with a grade of C or better; or consent of instructor. F

CIS280B-L Cooperative Work Experience
See CWE–Cooperative Work Experience

CIS283 Security+
4 class hr/wk, 4 cr.
Provides students with the fundamentals of computer security, and to help prepare for the CompTIA Security+ exam. Covers material related to general computer security concepts, communications security, infrastructure security, basics of cryptography and operational/organizational security. Presents information on capturing, analyzing and generating IP traffic, how to exploit protocol weaknesses and examine defensive solutions. Covers packet filtering, password policies and file integrity checking are also covered. Prerequisite: CIS102A and CIS179, each with a grade of C or better; or consent of instructor. Offered as needed

CIS284 Ethical Hacking
4 class hr/wk, 4 cr.
Demonstrates the ethical use of various “white hat” cyber penetration testing tools and techniques consistent with Ethical Hacking training in an enclosed “sandbox” environment. Analyzes various computer hacking skills through protective measures and their effectiveness. Prerequisite: CIS102A and CIS179, each with a grade of C or better; or consent of instructor. Offered as needed

CIS288 Server Management 2
4 class hr/wk, 4 cr.
Provides hands-on experience, configuring, customizing, administering, maintaining a server, and outlining the various roles in an enterprise environment. Includes installation and administration of DHCP, DNS, remote access, virtualization, domain management, and group policy design. Provides resources that can be used to prepare for the Microsoft Certified Solutions Associate (MCSA) Certification. Prerequisite: CIS279 with a grade of C or better; or consent of instructor. W

CIS289 Network Systems Management
4 class hr/wk, 4 cr.
Provides a project-based centric curriculum directed towards the most current trends in global technology used by both private sector and public enterprises. Includes the ability to use both hands-on and research directed materials to selectively refine studies towards, but not limited to, LAN IT Administration, secure firewall and router implementation, data analytics, and PowerBI for the IW (Information Worker). Includes extended concepts of integrated Cloud implementation, server strategies for a virtualized environment and cross platform code development, and data design-integration required for an IT administrators. Prerequisite: CIS278 and CIS288, each with a grade of C or better; and consent of instructor. Sp
CIS295 Web Application Development
4 class hr/wk, 4 cr.
Covers the development of web applications using various scripting languages. Explains the process of web application development. Stresses proper coding practices and documentation and implementation of databases for dynamic web content. Discusses scalability and security. Prerequisite: CIS178W, or CIS195, or VC237; or consent of instructor. (Prerequisite course must be completed with a grade of C or better.) Sp

Criminal Justice
CJ100 Survey of the Criminal Justice System
3 class hr/wk, 3 cr.
Reviews court systems and procedures from criminal violation to final disposition. Covers six primary functional areas of administration of justice and reviews principles of federal, state, criminal and civil laws as they apply to and affect law enforcement. F, W, Sp, Su

CJ101 Criminology
3 class hr/wk, 3 cr.
Covers the development and conceptualization of crime, including historical perspective, social and legal definitions, and classifications. Includes an overview of criminology, research, data gathering, and analysis. Introduces major theoretical perspectives on the nature of crime, criminals, and victimization. Identifies current trends and patterns of crime typologies as well as societal and institutional responses. F, W, Sp, Su

CJ102 Survey of the Juvenile Justice System
3 class hr/wk, 3 cr.
Reviews the juvenile justice system including juvenile court processes and procedures from criminal violation to final disposition. Identifies juvenile justice administrative functions and reviews the principles of federal, state, and local statutes as they apply to and affect the juvenile offender. F, W, Sp

CJ103 Program Application and Employment Standards
1 class hr/wk, 1 cr.
Introduces information specific to Oregon employment requirements and Department of Public Safety Standards and Training (DPSSST) certification standards. Includes employment disqualifiers as well as desired attributes to assist in selecting the criminal justice career field best suited to specific qualifications. F, W, Sp, Su

CJ104A CJ Personal Defense–Beginning
3 lab hr/wk, 1 cr.
Designed to introduce the knowledge and safety of personal defense to Criminal Justice students. Uses the elements of responding to surprise attacks, principals of leverage, and active movements as key factors in the methods. Develops skills to defend oneself and others, if needed. Prerequisite: CJ103 with a grade of C or better, or consent of instructor. Offered as needed

CJ104B CJ Personal Defense–Intermediate
3 lab hr/wk, 1 cr.
Designed to introduce the knowledge and safety of personal defense to Criminal Justice students. Uses the elements of responding to surprise attacks, principals of leverage, and active movements as key factors in the methods. Develops skills to defend oneself and others, if needed. Prerequisite: CJ103 with a grade of C or better, or consent of instructor. Offered as needed

CJ104C CJ Personal Defense–Advanced
3 lab hr/wk, 1 cr.
Presents specialized training and academic opportunities in the tactics and movement utilized during deadly force encounters. Presents students with training needed by the standard law enforcement professional. Focuses on safe tactics, movement, and decision making during potentially deadly force encounters. Prerequisite: CJ103 with a grade of C or better; or consent of instructor. Su

CJ105 Defense Tactics
3 lec hr/wk, 3 cr.
Introduces the knowledge and safety of personal defense to the criminal justice student. Uses the elements of responding to surprise attacks, principals of leverage, and active movements as key factors in the methods. Develops skills to defend oneself and other, if needed. Focuses on mirroring the skills taught at the Oregon police academy to prepare the students for the rigors of their training once hired. Prerequisite: CJ103 with a grade of C or better; or consent of instructor. Su

CJ106 Deadly Force Tactic and Movement
3 lab hr/wk, 1 cr.
Covers the development and conceptualization of crime, including historical perspective, social and legal definitions, and classifications. Includes an overview of criminology, research, data gathering, and analysis. Introduces major theoretical perspectives on the nature of crime, criminals, and victimization. Identifies current trends and patterns of crime typologies as well as societal and institutional responses. F, W, Sp

CJ107 Law Enforcement Procedures
3 class hr/wk, 3 cr.
Introduces the history and philosophy of law enforcement and the administration of justice. Provides a preview of a professional career in law enforcement and how an agency functions in relation to public relations and professional and political ethics. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W, Sp

CJ110 Field Operations and Patrol Procedures
3 class hr/wk, 3 cr.
Introduces the nature and purpose of patrol activities. Examines routine and emergency procedures and types of patrol. Focuses on force continuum, officer survival, arrest procedures, field interviews, and ethics. Explores methods of safely responding to various calls and individuals. Includes scenarios on occupational exposure to blood borne pathogens. Covers equipment, technology, and vehicle operation. Identifies gangs, drug use indicators, threat groups, and responses to civil disturbances. Emphasizes report documentation, courtroom testimony, and police tactical communications. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Sp

CJ112B Advanced Patrol Procedures
3 class hr/wk, 3 cr.
Focuses on the more advanced skills needed on the street by the basic police officer. Introduces students to high risk building clearing, active shooter situations, hostage negotiation, barricaded subjects, perimeter set-up for bombs/improvised explosive devices or hazardous material spills, riot control, and high risk vehicle stops. Designed for base knowledge and skills to be taught in a classroom then practiced in a real world setting, utilizing scenarios to reinforce the knowledge and skills learned. Prerequisite: CJ103 with a grade of C or better; or consent of instructor. Su
CJ123 Spanish for Law Enforcement
3 class hr/wk, 3 cr.
Offers a practical, learner friendly Spanish language course for law enforcement students and personnel. Emphasizes officer safety, increased community safety, enhanced job performance, and protection from legal liability. Requires no prior knowledge of Spanish. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. Offered as needed

CJ125 Public Safety Communications and Documentation
3 class hr/wk, 3 cr.
Provides students with specific reading and writing skills needed by Public Safety professionals. Emphasizes proper conventions, grammar, and the factual style used by Public Safety professionals, both computer-generated and handwritten reporting methods. Offered as needed

CJ130 Corrections Process
3 class hr/wk, 3 cr.
Introduces the corrections process, including historical development through contemporary issues. Reviews the history, current practices, and future considerations of corrections. Identifies the subcomponents of corrections; variations in correctional institutions, levels of custody, administrative practices, correctional staff roles and responsibilities, institutional policies, procedures, and programs. Covers changing inmate demographics, special needs inmates, safety and security concerns, and current issues. F, Sp, Su

CJ132 Parole and Probation
3 class hr/wk, 3 cr.
Introduces the basic philosophies, principles, and functions of parole, probation, and community corrections. Focuses on the role of community corrections in the administration of justice, community corrections options, techniques and training issues, and current challenges and pressures impacting corrections options. F, W, Sp, Su

CJ134 Search/Contraband/Restraints
2 class hr/wk, 2 cr.
Focuses on the proper forms and processes for conducting searches of persons such as inmates, staff, volunteers, contractors, visitors, those arrested, and suspects detained by police and corrections officers. Includes proper forms and processes for searches of correctional facilities, private homes, other buildings and common areas, and patrol and non-patrol vehicles. Covers practical techniques for the transportation, restraint, and escorting of those in custody within a correctional facility, in the public, and in court proceedings. Promotes the importance of the safety, security, and orderly operation inside and outside a correctional facility. Prerequisite/Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. Offered as needed

CJ138 Security Threat Groups
2 class hr/wk, 2 cr.
Explores the criminal subcultures of security threat groups (STGs) and gangs. Includes the management concepts for individuals at risk of involvement in STGs or gangs, the identifying characteristics of involvement, intervention strategies, and the importance of interagency networking and information-sharing. Outlines concepts of covert communications used by STGs and gangs in communicating within facilities, jail, and on the streets. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W

CJ142A Managing the Mentally Ill Offender
2 class hr/wk, 2 cr.
Focuses on understanding and supervising youthful and adult offenders in confinement by developing an awareness of the dynamics, basic behaviors, and interpersonal interactions commonly found among offenders exhibiting these serious mental disorders: anxiety, dissociative, mood, personality, psychotic (schizophrenia), and mental retardation. Recommended: PSY201 or PSY202, either with a grade of C or better. W

CJ144 Suicide Prevention and Intervention Skills
2 class hr/wk, 2 cr.
Brings a suicide prevention and intervention practice-dominated course. Designed to help individuals, criminal justice, juvenile, and social service caregivers to recognize and review risk and intervene to prevent suicide. F, Sp

CJ145 Managing Long Term Offenders
2 class hr/wk, 2 cr.
Addresses management strategies for long-term offenders. Covers inmate reception about serving longer sentences, their views of establishing relationships, and accountability challenges. Includes management of death row inmates, the elderly inmate population with unique special needs, and the security risk posed by lifers attempting to escape. Prerequisite/Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. Sp

CJ146 Officer Survival Mindset
3 class hr/wk, 3 cr.
Provides the student with a historical review of issues and scenarios related to officer survival and provides insight from lessons learned. Introduces the mistakes in decision-making, personal distancing, or threat assessment of a suspect and/or offender. Provides a brief review of cases where officers were killed in the line of duty. Also describes the survival mindset, confrontations, new intervention pathways, and the courageous spirit. Recommended: CJ110, CJ112, or CJ130. (Courses must be completed with a grade of C or better.) Prerequisite/Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Sp

CJ147 Criminal Personality and Errors in Thinking
2 class hr/wk, 2 cr.
Introduces personality disorders as defined by the Diagnostic and Statistical Manual. Addresses errors in thinking which are uniquely present in criminal behavior. Reviews the foundational work of Yochelson and Samenow on the criminal mind. Prerequisite/Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F

CJ153 Ethical Dilemmas/Decision CJ
3 class hr/wk, 3 cr.
Provides students with an introduction to ethical duties and decision making dilemmas facing criminal justice professionals. Provides the basic foundations of ethical reasoning and the standards for determining sound ethical decision making. Increases the learner's application of ethical reasoning in the face of agency corruption, use of force, gender and race discrimination, due process, and duty towards others. F, W, Sp, Su

CJ155 Science and Law in Use of Force
3 class hr/wk, 3 cr.
Presents specialized training and academic opportunities in the science and law in the use of force. Prerequisite: CJ103 with a grade of C or better; consent of instructor. F, Sp. Offered as needed
CJ170 Juvenile Justice Ethics and Boundaries  
3 class hr/wk, 3 cr.  
Provides students with an introduction to ethical and boundary issues that confront workers in the juvenile justice system. Increases the capacity for the identification and analyses of issues and the development of positions relative to the issues. Focuses on more difficult ethical and boundary issues prevalent in juvenile justice today.  
Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W, Sp, Su

CJ171 Juvenile Sex Offenders  
2 class hr/wk, 2 cr.  
Provides in-depth information related to juvenile sex offenders. Introduces an overview of trends in treatment and covers therapeutic interventions necessary to deter a future of repeated victimization or the development of similar abusive behaviors toward others. Covers professional boundaries when working with juvenile sex offenders. Identifies sex-offending behaviors in juveniles and what to look for. Discusses normal and abnormal adolescent sexual development as it relates to juvenile sex offenders. Identifies paraphilias behaviors as they relate to juvenile sex offenders as described in the Diagnostic and Statistical Manual of Mental Disorders (DSMIV).  
Prerequisite/Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W

CJ200 Family Violence and Deviancy  
3 class hr/wk, 3 cr.  
Discusses the role of criminal justice practitioners in maintaining community relations, networking, and multi-disciplinary approaches to crimes of family violence. Examines the role expectations of involved agencies and covers "red flag" behaviors and detection of family-related crimes and their patterns of escalation.  
Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W

CJ203 Crisis Intervention Seminar  
3 class hr/wk, 3 cr.  
Introduces an overview of the techniques and approaches to crisis intervention for entry-level criminal justice professionals. Covers initial intervention, diffusion and assessment, resolution and/or referral, with emphasis on safety. Includes personal effectiveness, recognition of threat levels, voluntary compliance, verbal and non-verbal communication, active listening, and mediation  
Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W, Sp

CJ206 Crime and Delinquency  
3 class hr/wk, 3 cr.  
Introduces the historical development of childhood and the legal concepts of delinquency. Studies crime and delinquency rates and typologies focusing on data variations impacted by age, sex, race/ethnicity, socio-economic and educational status, urbanization, and other key factors as independent variables. Introduces major theoretical perspectives and their application in the study of juvenile delinquency. Covers key concepts affecting juvenile victimization.  
F, W, Sp

CJ207 CJ Diversity Issues  
3 class hr/wk, 3 cr.  
Introduces the civil rights of citizens related to religion, ethnicity, culture, race, gender, age, disability, and sexual preference. Examines the legal and societal responsibilities of criminal justice professionals to the protection of those rights in the course of public safety duties.  
Involves creative, critical, and solution-oriented thinking throughout the course.  
Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W

CJ208 Criminal Justice Leadership  
3 class hr/wk, 3 cr.  
Surveys the leadership practices as understood in the last 75 years and looks to the twenty-first century for a reconstructed understanding of leadership in the postindustrial era. Offers a definition and paradigm for leadership that distinguishes leadership from management in fundamental ways. Looks at how leadership is implemented and understood within criminal justice agencies.  
Prerequisite: CJ103 with a grade of C or better with a criminal history clearance; current professional in the field; or consent of instructor. Su

CJ209 Introduction to Victimology  
3 class hr/wk, 3 cr.  
Traces the criminal justice system’s historic and current response to crime victims as it relates to their rights. Provides a comprehensive overview of the offender-victim relationship, while addressing victim support policies and programs. Presents a realistic approach to understanding the dynamics of victimization and the broad range of coping mechanisms that victims employ to deal with their particular experiences. Introduces the concept of trauma informed care.  
Offered as needed

CJ210 Criminal Investigations 1: Crimes vs. Persons  
3 class hr/wk, 3 cr.  
Covers historical development of criminalistics. Introduces current basic techniques and components involved in major persons-related crime scene investigations. Includes skills necessary to process the scene. Identifies specialized procedures and technology used to identify, profile, locate, and apprehend offenders. Covers interviewing/interrogation techniques. Stresses importance of field notes and case documentation. Emphasizes escalation-cycling patterns of serious offenders. Includes factual case studies. Focuses on qualities of a successful investigator. Examines development of reliable confidential informants.  
Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W, Sp, Su

CJ211 Property Crimes: Behavior and Evidence  
3 class hr/wk, 3 cr.  
Introduces basic techniques and components involved in major property-related crime scene investigations. Includes skills necessary to process scene. Identifies specialized procedures/technology used to identify, locate, and recover stolen property. Covers methods to identify and apprehend individuals. Emphasizes correlation between property crimes and drug use. Includes preparation of court testimony, and current trends in cyber, terrorism, identity, and narcotic investigations.  
Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Sp

CJ212 Police Report Writing  
3 class hr/wk, 3 cr.  
Provides students with the necessary information to become knowledgeable and successful writers of narrative police reports, documenting both original crimes and follow-up investigations. Utilizes a specialized format to meet different types of investigative activities, e.g., crime scene processing, interviews with suspects and witnesses, undercover operations, and the execution of search warrants. Re-emphasizes basic writing skills and spelling accuracy related to criminal justice terminology.  
Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W, Su
CJ215 Criminal Justice Administration
3 class hr/wk, 3 cr.
Surveys the administrative practices of criminal justice agencies with special emphasis on law enforcement. Covers administration in the public services area including organizational theory and management, personnel management, and policy and procedures formulation. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. Offered as needed

CJ217 Interview and Interrogation in Criminal Justice
3 class hr/wk, 3 cr.
Focuses on becoming a knowledgeable interviewer and interrogator. Introduces Reid technique of interviewing and interrogation, and FBI Perspective techniques. Includes brief review of constitutional constraints and professional ethics specific to interviewing and/or interrogation of suspects, witnesses, complainants, and victims. Covers interview and interrogation objectives, preparation, approaches, and technical aids. Presents the importance of listening and documentation. Includes practical scenarios/role playing. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Sp

CJ220 Substantive Law/Oregon Criminal Code
3 class hr/wk, 3 cr.
Introduces the origin and structure of common-law crimes, case decisions, and the development of statutory crimes. Reviews the amendments of the constitution which protect citizens during criminal inquiries, introduces the elements of a crime, and the types of affirmative defenses presented at a criminal proceeding. Provides distinctions between criminal and civil law. Addresses criminal court procedures, criminal law case reading, federal and state law, and selected Oregon criminal code sections. F, Sp

CJ222 Profiling Serial Killers
3 class hr/wk, 3 cr.
Analyzes a specific offender type, the serial killer. Includes historical perspective, motives, and killer phases. Emphasizes the methodology of profiling, crime scene analysis, and modus operandi as developed by the FBI Investigative Support Unit to assist law enforcement. Covers victimologies, VI-CAP, and Oregon H.I.T.S. systems. Uses individual case studies. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W, Sp, Su

CJ224 Missing and Abducted Children
2 class hr/wk, 2 cr.
Provides specialized training regarding child abductions and missing children. Includes victimology, motives, custodial versus non-custodial, kidnap and cult murder, grooming techniques, crime scene indicators, and forensic evidence. Introduces notification and training systems, including National Center for Missing and Exploited Children, Amber Alert Plan, FBI’s Child Abduction and Serial Murder Investigative Resource Center, Violent Criminal Apprehension Program, K-9 usage, and A Child is Missing plan. Emphasizes the first four hours investigative tasks. Prerequisite/Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Sp

CJ225 Stalking, Predatory Behaviors, and Personal Safety
2 class hr/wk, 2 cr.
Provides information regarding stalking and related behaviors. Covers types of stalkers, current anti-stalking statutes, and personal and professional security measures. Emphasizes the necessity of documenting and reporting this crime. Describes prohibited behavior, threat levels, and the effects of stalking on victims. Discusses current trends in cyberstalking, including the use of electronic communication devices such as the Internet, email, cell phones, fax machines, and pagers. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W

CJ226 Constitutional Law
3 class hr/wk, 3 cr.
Presents an intensive study and analyzes the United States Constitution. Studies court decisions which determine the admissibility of evidence in criminal cases and which affect police procedures. Considers the criminal procedures processes with an emphasis on the role of law enforcement in this process. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W

CJ229 Domestic Terrorism
3 class hr/wk, 3 cr.
Presents the history of terrorism (international and domestic), the causes and methods of terrorism, with an emphasis on contemporary domestic terrorism groups. Covers the basic steps in countering terrorists threat groups, concepts in terrorism, causes, and methods. Assists law enforcement officers, public administrators, security officers, and the general public in recognizing potential terrorist threats. Emphasis on domestic (national) terrorism. Prerequisite: CJ100 and WR121, each with a grade of C or better; or consent of instructor. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Sp

CJ230 Juvenile Corrections
3 class hr/wk, 3 cr.
Introduces the historical and contemporary aspects of juvenile corrections. Identifies and explores the philosophy, functions, and goals of the juvenile justice system. Emphasizes the role of law enforcement, the courts, community-based corrections, and custodial facilities. Includes an overview of the ongoing debate concerning rehabilitation vs. punishment philosophies in the juvenile justice system, especially as it relates to safety and security issues, and public concerns. W, Sp

CJ232 Corrections Casework
3 class hr/wk, 3 cr.
Presents an overview of casework in corrections settings. Includes introduction to behavior modification theories and methods, contemporary counseling methods, assessment processes, and the development of officer-client relations. Emphasizes observation skills, perception issues, information gathering, interpersonal communication skills, and interviewing strategies and techniques as part of corrections casework. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. Offered as needed

CJ235 Youth, Drugs, and Corrections
3 class hr/wk, 3 cr.
Studies current trends, programs and philosophies regarding addiction, treatment options, assessment processes, and related behavioral issues for youthful offenders, specifically in correctional settings and in post-conviction supervision. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Sp

CJ236 Public Safety Leadership and Ethics 1: Philosophy of Leadership
4 class hr/wk, 4 cr.
Introduces philosophies and ethics for public safety leadership. Focuses on core values, ethics, and decision-making. Explores developing a personal leadership philosophy. Includes defining the difference between leadership and management and completing self-assessments in an effort to gain insight into personal leadership styles and characteristics. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Sp
CJ237 Public Safety Leadership and Ethics 2: Leading Others
4 class hr/wk, 4 cr.
Explores the various roles of leadership as they relate to being a team builder, delegator, conflict resolution facilitator, coach, and mentor. Focuses on gaining an understanding of communication processes, empowerment, and leading in a diverse environment. Explores various theories of including situational leadership, transformational leadership, and servant leadership. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. Offered as needed

CJ238 Public Safety Leadership and Ethics 3: Organizational Leadership
4 class hr/wk, 4 cr.
Explores the leadership process and the leader-follower relationship within an organizational setting. Covers the influence of organizational culture, values, and societal issues on leadership effectiveness. Introduces the concepts of learning organizations, organizational health, defenses, and change. Examines how a leader moves an organization from vision to action. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. Offered as needed

CJ239 Public Safety Leadership and Ethics 4: Ethics and the Challenge of Leadership
4 class hr/wk, 4 cr.
Correlates the personal core values and characteristics to ethical decisions and behaviors. Explores ethical and principle-centered leadership, including ethical systems, dilemmas, and decision making. Examines the challenges and develops strategies for leading in public safety organizations serving diverse and dynamic communities. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. Offered as needed

CJ240 Intake, Assessment, and Information Interviewing
3 class hr/wk, 3 cr.
Introduces the concepts of intake, the purpose and types of assessment tools utilized for determining public risk, institutional risk, and personal treatment needs for the development of an effective treatment plan. Covers conducting interviews at every stage of the process, and applying techniques for informational interviewing. Includes the benefits, costs, and process of changing behavior. Explores the techniques for assuring consistency, accountability, and effectiveness for intake operations. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W

CJ241 Group Skills for Correctional Clients
3 class hr/wk, 3 cr.
Introduces group dynamics, group organization, and facility skills for correctional professionals working with clients. Includes an introduction to the various models of group interaction and the principle characteristics and advantages of using group skills with correctional clients. Provides basic concepts for conducting a group and the stages and differential group dynamics. Also presents the basic skills necessary for client selection and development, effective leadership and group management, and techniques for the identification of criminal tactics that disrupt the group process. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Sp, Su

CJ245 Public Safety Telecommunications 1
3 class hr/wk, 3 cr.
Introduces basic public safety and emergency services telecommunication functions, essential duties, responsibilities, training, and career requirements. Covers entry-level customer service, customer tips, confidentiality, how 9-1-1 works, reasons to call 9-1-1, call taker response, liability, and dispatcher actions. Explores cultural differences in communication, and the ability to tactfully and courteously communicate with callers and difficult people in emergency situations, in suicidal and/or altered mental states. Addresses multi-tasking, decision making, and interpersonal relationships with co-workers and supervisors. Introduces students to mutual aid agreements, agency jurisdictions, appropriate agency referrals, and resources. Acquaints students with Willamette Valley Communication Center, Norcom Dispatch, Oregon State Police Dispatch, state 9-1-1 programs, and Oregon Revised Statutes 403.100-403.380. Covers system failure adjustments and new technological advances, as well as next generation 9-1-1. Prerequisite: CJ103 with criminal history clearance and negative drug screen; or consent of instructor. F, Sp, Offered as needed

CJ245 with a grade of C or better; or consent of instructor. W, Su

CJ253 Introduction to Penology
3 class hr/wk, 3 cr.
Introduces the theories and practices of punishment. Includes processes devised and practiced for the repression and prevention of crime. Covers a historical overview of society’s choices of punishment, the evolutionary process of punishment reform in the United States, and the continual dilemma of balancing the punishment of offenders and the expectation of rehabilitation. F, W

CJ255 Oral Boards & Multi-Assessment
2 class hr/wk, 2 cr.
Presents specialized training opportunities for students, municipal and county reserves, and cadets who anticipate applying for full-time employment in the criminal justice field. Reviews basic Department of Public Safety Standards and Training (DPSST) certification requirements. Identifies preparatory steps to be successful in passing oral board interviews and initial phases of a multi-assessment process. Covers stress, voice control, behaviors, appearance, attitude, and dress. Students are photographed, videotaped, and participate in a competitive oral board scored by professionals in the field of law enforcement, corrections, and parole and probation. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Sp
CJ261 Law Enforcement Related Experience 1
9 lab hr/wk, 3 cr.
Introduces Law Enforcement Related Experience (L.E.R.E.) sequence of courses required for the AAS degree in Law Enforcement. Focuses on topics, training, and practical application covered in L.E.R.E. coursework that aligns with the Mid-Valley Reserve Academy curriculum and incorporates specific Department of Public Safety Standards and Training (DPSST) content areas. Involves overview of ORS criminal, juvenile, vehicle code, liquor laws and civil liability; ethics; cultural diversity; Oregon Physical Abilities Test (ORPAT) preparation and testing; CPR/AED practical training; and HazMat/Blood borne pathogens. Recommended: CJ110 or CJ112, either with a grade of C or better. Prerequisite: Admission restricted to the students chosen through an application process; and CJ103 with a grade of C or better, with criminal history clearance specific to DPSST employment standards.

CJ262 Law Enforcement Related Experience 2
9 lab hr/wk, 3 cr.
Introduces basic information and practical application of courtoom testimony, Standard Field Sobriety Tests (SFST) applications, Drug Recognition Expert (DRE) abilities, intoxilyzer technology, and Wet labs. Includes tours of Department of Public Safety Standards and Training (DPSST) academy and Marion County Correctional Facility complex. Prerequisite: CJ261 with a grade of C or better; or consent of instructor.

CJ263 Law Enforcement Related Experience 3
9 lab hr/wk, 3 cr.
Introduces new skills and practical application of oleoresin-capsicum (OC), baton, tactical knife, taser, and Multiple Interactive Laser Options (MIL0) firearms in order to function safely and effectively as an integral member of a law enforcement team and successfully pass testing for Oregon Physical Abilities Test (ORPAT). Includes information on Oregon Senate Bill 111 (officer-involved shooting(s) protocols), surviving traumatic incidents, family dynamics, death notifications, and use of various recovery services. Prerequisite: CJ262 with a grade of C or better; or consent of instructor.

CJ264 Law Enforcement Related Experience 4
9 lab hr/wk, 3 cr.
Provides knowledge and skills necessary to investigate motor vehicle crashes, apply correct motor vehicle (MV) codes, conduct traffic stops, recognize Emergency Vehicle Operations Course (EVOC) considerations, and liability issues. Also provides skills needed to effectively write police reports, conduct vehicle searches, make high risk stops, and employ K-9s related to vehicle stops and searches. Prerequisite: CJ263 with a grade of C or better; or consent of instructor.

CJ265 Law Enforcement Related Experience 5
9 lab hr/wk, 3 cr.
Covers basic investigations through abbreviated formats on domestic violence, stalking, threat assessments, elder and child abuse, arson and explosives, robbery, burglary, sexual assault, identity theft, cybercrime, narcotic investigations and informants, emotionally disturbed persons (EDP) encounters, homicides, scene preservation, the medical examiner (M.E.) role, and sexual asphyxia deaths. Provides students on Oregon Physical Abilities Test probation a final attempt to successfully complete course within required Department of Public Safety Standards and Training time limit for certification as a Law Enforcement professional in the state of Oregon. Prerequisite: CJ264 with a grade of C or better; or consent of instructor.

CJ266 Law Enforcement Related Experience 6
9 lab hr/wk, 3 cr.
Introduces additional skills and knowledge on fitness, nutrition, and stress management specifically related to law enforcement personnel. Includes practical application of building searches, active shooter(s), and consims; and culminates in patrol week. Covers functioning safely and effectively as an integral member of a law enforcement team. Offers preparation on entering the job market and becoming more successful in the competitive entry process. Students completing the Law Enforcement Related Experience (L.E.R.E.) series of courses will participate in L.E.R.E. graduation ceremony held at Brooks Regional Training Center and Brooks’ Annual Recruitment Fair involving law enforcement agency stakeholders. Prerequisite: CJ265 with a grade of C or better; or consent of instructor.

CJ267 Introduction to Forensics
3 class hr/wk, 3 cr.
Provides an in-depth instruction of basic crime scene-related forensic science and standard evidence collection. Covers physical evidence, glass and soil, hair, fibers, paint, arson and explosions, serology, blood patterns, DNA, bite marks, fingerprints, automated fingerprint identification system (AFIS), firearms, tool marks, questioned documents, voice examination, computers, and Internet. Includes emphasis on chain of evidence and explores future developments in forensic science. Enables limited hands-on application through use of student manual. Introduces a wide variety of reliable evidence retrieval techniques needed for successful prosecution of criminal cases. Recommended: CJ210 with a grade of C or better. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor.

CJ269 Police Ethics and Professional Conduct
3 class hr/wk, 3 cr.
Provides in-depth information related to police ethics, on and off-duty conduct, discipline, and policy formation in varied law enforcement settings. Covers professional expectations as a public servant associated with citizens, media, co-workers, family members, friends, and supervisors. Covers boundaries and accountability involving confidential reliable informants (CRIIs), crime victims, undercover (UC) assignments and operations, traffic stops, domestic violence (DV), emotionally disturbed persons (EDPs), execution of search warrants, evidence collection and handling, reports, and courtroom testimony. Utilizes extensive scenario-based field activities embedded in Law Enforcement Related Experience (L.E.R.E.) 1-6 coverage that requires ethical responses and actions for successful task completion. Recommended: CJ110 or CJ112, either with a grade of C or better. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor.
CJ270 Crime Victim Advocacy
2 class hr/wk, 2 cr.
Provides information on the development of local victim advocacy and assistance programs, community resources available to victims, including crime victim compensation. Also includes the role of the advocate, basic advocacy skills training in the areas of children and juveniles victimization, domestic violence, sexual assault response, and homicide. Includes types of services delivered to victims and commonly used websites that provide current offender status. Covers the impact of crime on victims and their families, safety planning, and personal victim story and/or advocate’s work experience with specific case(s), or victim panel presentation. Recommended: CJ200 with a grade of C or better. Prerequisite/Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W

CJ272 Recognizing Child Molesters
3 class hr/wk, 3 cr.
Provides specialized training for law enforcement and criminal justice professionals in how to recognize and detect child molesters. Covers the offender’s cognitive and behavioral steps, factors in selecting the child victim, and how offenders avoid discovery. Includes basic information on common sexual disorders, and cyber pedophiles. Prerequisite/Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Offered as needed

CJ273 Drugs and Pacific Northwest Street Gangs
3 class hr/wk, 3 cr.
Provides specialized law-enforcement related training and information on commonly used controlled substances found, distributed, and destined for locations in the Pacific Northwest. Includes Schedule I-IV characteristics, drug appearances, associated paraphernalia, “club drugs,” and anabolic steroids. Covers surveillance tactics, development of street informants, and use of Confidential Reliable Informants (CRIs). Includes similar intelligence gathered on Northwest street gangs, growth, recruitment, and geographical movement, related criminal activities, infiltration, involved schools, tagging, associates, tattoo identification, and importance of documentation by both patrol and detectives. Covers networking with local parole and probation, Oregon Department of Justice, county jails, Department of Corrections (DOC), other Northwest organizations, and professional contacts. Recommended for Careers in Corrections: CJ138 with a grade of C or better. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. Sp

CJ2780B-L Cooperative Work Experience
See CWE–Cooperative Work Experience

CJ281 Corrections Officer Related Experience 1
9 lab hr/wk, 3 cr.
Introduces Corrections Officer Related Experience (C.O.R.E.) sequence of courses. Focuses on topics, training, and practical application of skills including specific DPSST content areas. Focuses on Oregon Department of Corrections, Federal Bureau of Prisons, and topics related to local county jails and juvenile facilities. Presents an overview of jobs in corrections; officer mindset; inmate, client, and resident behavior patterns; use of force; ethics; inmate rights; and sanctions. Covers cultural diversity, abbreviated Oregon Physical Abilities Test (ORPAT) preparation and completion, defensive tactics, CPR/AED practical training, and HAZMAT/blood-borne pathogens. Prerequisite: Admission restricted to students chosen through an application process and who have successfully completed CJ103 including criminal history clearance and drug screening specific to Department of Public Safety Standards and Training (DPSST) employment standards for certification of Corrections personnel in the state of Oregon. F, W

CJ282 Corrections Officer Related Experience 2
9 lab hr/wk, 3 cr.
Introduces basic information on jail environments and procedures, jail structure, intake, booking, inmate risk classification factors, narcotics, inmate supervision, defensive tactics, courtroom testimony, communicable diseases, and tactical communication and safety. Includes continued preparation for the abbreviated Oregon Physical Abilities Test (ORPAT). Introduces Multiple Interactive Laser Option (MILO) training, and correctional facility tour(s) of the Marion County Correctional Facility complex, including the Parole and Probation office (Community Corrections) and/or Department of Corrections facility and/or Federal Bureau of Prisons in Sheridan, Oregon. Prerequisite: CJ281 with a grade of C or better; or consent of instructor. W

CJ283 Corrections Officer Related Experience 3
9 lab hr/wk, 3 cr.
Introduces new skills and practical application of both tactical knife and sharp-edged instrument survival. Continues practice in the use of Multiple Interactive Laser Options (MILO) firearms in order to function safely and effectively as an integral member of a correctional team. Focuses on Oregon prison gangs, use of less lethal force options, jail searches, inmate transports, civil rights investigations, jail services, traumatic incidents in corrections, and Senate Bill 111. Prerequisite: CJ282 with a grade of C or better; or consent of instructor. Sp

CJ289 Corrections Ethics and Professional Conduct
3 class hr/wk, 3 cr.
Provides in-depth information related to corrections ethics; on-and-off duty conduct; discipline; and policy formation in city, county, state, and federal correctional institutions. Covers professional expectations associated with citizens, media, co-workers, support staff, administrators, family members, friends, and supervisors. Includes confidentiality issues, inmates’ rights, employee accountability, use of force, contraband, gratuities, security measures involving institutional informants, inmates, inmate family members, and visitors. Examines ethics related to duties and responsibilities of a correctional officer, reports, documents, and courtroom testimony. Utilizes Department of Public Safety Standards and Training (DPSST) ethics bulletins, and extensive scenario-based field activities embedded in the Corrections Officer Related Experience courses that require proper ethical responses and actions from a corrections professional. Corequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F
Chicano/Latino Studies
CLA201 Introduction to Chicano/Latino Studies 1
4 class hr/wk, 4 cr.
Introduces Latino history in the United States beginning with Spanish colonization and continuing with the Mexican-American War. Covers Mexicans’ role in American labor, economics, the Bracero Program and the Chicano Movement. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su
CLA202 Introduction to Chicano/Latino Studies 2
4 class hr/wk, 4 cr.
Introduces the social, political and economic status of Latinos in the context of United States institutions and structures. Examines demographic profiles and current issues from a Chicano/Latino perspective. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W
CLA203 Introduction to Chicano/Latino Studies 3
4 class hr/wk, 4 cr.
Provides an overview of the cultural heritage of Chicanos and Latinos in the United States. Draws from anthropology, folklore, literature and linguistics. Examines folk and popular culture as well as the integration of various traditions. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Sp

Communication
COMM100 Introduction to Communication
4 class hr/wk, 4 cr.
Surveys the areas of communication with emphasis on intrapersonal, interpersonal, group, and mass communication. Explores how factors such as culture, learning, ability, and socioeconomic background can impact communication. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp; CL
COMM105 Listening and Critical Thinking
4 class hr/wk, 4 cr.
Introduces the concepts and skills involved in listening and critical thinking in a variety of contexts, including work situations, personal and family relationships, and education contexts. Elements covered will include the ethical responsibilities of listening; and the processes of hearing, understanding, remembering, interpreting, evaluating, and responding. Skills used to build and manage relationships will include using critical thinking skills to analyze specific situations; using persuasion theories to create or critique messages; identifying how values, beliefs, and cultural differences impact the listening and responding process; and encouraging the use of empathy to enhance listening in diverse contexts. Recommended: Placement into WR121, or completion of WR115 with a grade of C or better. Prerequisite: Placement into WR115; or completion of WR090 with a grade of C or better; or consent of instructor. Offered as needed; Cl
COMM111 Fundamentals of Public Speaking
4 class hr/wk, 4 cr.
Introduces the preparing and delivering of public speeches with an emphasis on informative speaking. Develops understanding and practical application of communication skills and includes techniques in controlling speech anxiety, structuring and organizing information to present to a variety of audiences, and improving physical and vocal delivery skills. Recommended: Placement into WR121 (or higher), or completion of WR115 (or higher) with a grade of C or better; or consent of instructor. Prerequisite: Placement into WR115 or completion of WR090 with a grade of C or better; or consent of instructor. F, W, Sp, Su
COMM112 Persuasive Speaking 4 class hr/wk, 4 cr.
Prepares students to research, organize, and deliver persuasive speeches. Focuses on the ethics of persuasion and crafting speeches for specific audiences. Covers analysis persuasive speeches, media messages, and other forms of persuasion in different arenas, including advertising, business, and politics. Prerequisite: Placement into WR115; or completion of WR090 with a grade of C or better; or consent of instructor. F, W, Sp
COMM115 Introduction to Intercultural Communication 4 class hr/wk, 4 cr.
Explores the impact of culture on communication. Investigates how elements like language, nonverbal communication, values, beliefs, worldview, and identity impact communication between different cultures and co-cultures. Explores how culturally-based assumptions influence perceptions, behaviors, and communication. Recommended: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL
COMM130 Business and Professional Speaking 4 class hr/wk, 4 cr.
Focuses on communication in the workplace with an emphasis on the importance of both listening and speaking to help develop the skills necessary for communication in interpersonal, small group, and public business interactions with diverse audiences. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed
COMM212 Media, Communication, and Society 3 class hr/wk, 3 cr.
Analyzes the social and cultural impact of mass media, including broadcast, print, film, and cyberspace. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed
COMM218 Interpersonal Communication 4 class hr/wk, 4 cr.
Introduces communication in person-to-person interactions, emphasizing theoretical principles and their practical application. Concentrates on development of communications skills in interpersonal contexts. Recommended: Placement into WR121 (or higher); or completion of WR115 (or higher) with a grade of C or better. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su
COMM219 Team Communication and Leadership  
4 class hr/wk, 4 cr.  
Emphasizes communication skills used for participation in team settings. Covers the characteristics of small groups, developmental stages of groups, diversity in groups, leadership, and conflict management skills. Applies the skills of decision-making, planning and conducting meetings, making presentations in groups, using technology, and participation in virtual groups. Recommended: Placement into WR121 (or higher); or completion of WR115 (or higher) with a grade of C or better. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, Sp; CL

COMM227 Nonverbal Communication  
4 class hr/wk, 4 cr.  
Examines nonverbal behaviors of the self and others to become more effective communicators. Presents nonverbal theories including influential factors such as voice, body movement, eye behavior, touch, space, time, and smell, as well as the impact of physical and social environments. Investigates the implications of nonverbal skills in a variety of settings, including relationships, family, school, and workplace. Explores the influence of cultural differences on nonverbal behavior. Recommended: Placement into WR121 (or higher); or completion of WR115 (or higher) with a grade of C or better. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed; CL

COMM237 Communication and Gender  
4 class hr/wk, 4 cr.  
Examines the role of gender in communication and identifies many of the personal and public factors involved in communication between men and women. Includes current theories of gender development; the historical bases and evolution of women’s and men’s movements; gender-differentiated language and conversation styles; strategies for improving gendered communication; gender stereotypes; the influence of media on gendered roles; and the issues of perception, power, and privilege in relation to gender. Recommended: Placement into WR121 (or higher), or completion of WR115 (or higher) with a grade of C or better. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed; CL

COMM260 Conflict and Communication  
4 class hr/wk, 4 cr.  
Emphasizes understanding and appreciation of the role communication plays in conflict settings. Covers investigation and application of current research in conflict theory including issues that stretch from the interpersonal to the global (e.g. peace, nonviolent communication, restorative justice). Provides practice in the appropriateness and application of the major types of conflict management in different settings such as academic, business, media, global, intercultural, and interpersonal contexts. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed; CL

COMM285 Computer-Mediated Communication  
3 class hr/wk, 3 cr.  
Explores the impact of the computer on human-to-human communication. Investigates the areas of intrapersonal and interpersonal communication, including email, texting, instant messaging, chat, and other interaction through computer mediated channels. Emphasizes increasing skills to more effectively communicate via the Internet/cellular technology in social, professional, and educational settings. Recommended: SSP125 with a grade of C or better. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

Computer Science  

CS160 Introduction to Computer Science  
4 class hr/wk, 4 cr.  
Covers general-purpose data structures and algorithms, their complexity analysis, software engineering of these structures, and the application of these engineering concepts to real world problems. Includes managing complexity, complexity analysis, stacks, queues, lists, trees, heaps, hash tables, sets, maps, and graphs. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of CS162 and MTH231; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, Sp

CS161 Computer Science 1  
4 class hr/wk, 4 cr.  
First course in a three-term sequence that introduces foundational concepts and practices in computer science and software engineering. Includes problem solving, algorithm design, data types, program and control structures, program documentation, coding style, engineering tools, language paradigms, and introduces complexity and computability. Explores programming as a fundamental tool of computer science, emphasizing professional engineering practices in software design, development, and testing. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH112 (or higher), or completion of MTH111 (or higher); and completion of CS160 or concurrent enrollment in EGR201; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Offered as needed

CS162 Computer Science 2  
4 class hr/wk, 4 cr.  
Presents the second course in a three-term sequence that introduces foundational concepts and practices in computer science and software engineering. Includes coverage of inheritance, GUI programming, error handling, recursive algorithms, algorithm complexity, and an introduction to abstract data types. Emphasizes experiences with professional engineering practices. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of CS161; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, Sp, Offered as needed

CS260 Computer Science 3: Data Structures  
4 class hr/wk, 4 cr.  
Covers general-purpose data structures and algorithms, their complexity analysis, software engineering of these structures, and the application of these engineering concepts to real world problems. Includes managing complexity, complexity analysis, stacks, queues, lists, trees, heaps, hash tables, sets, maps, and graphs. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of CS162 and MTH231; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp, Offered as needed
CS271 Computer Architecture and Assembly  
4 class hr/wk, 4 cr.  
Introduces the low-level architecture and programming of digital computers. Covers the fundamentals of data encoding, digital logic, processor design, and instruction execution. Explores assembly language and low-level programming; arithmetic operations, decisions, addressing, stacks, modularization, linkers, and debuggers. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of CS160 and CS161; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

CS290 Web Development  
4 class hr/wk, 4 cr.  
Design and implement multi-tier applications using web technologies. Create extensive custom client and server side code. Explore modern frameworks and underlying technologies. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and CS162; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp, Offered as needed

Civil Technology  
CVL130 Work Zone Safety and First Aid  
1 class hr/wk, 1 cr.  
Covers signage and cone setup standards related to basic traffic control for short-term work zones. Presents introductory flagging procedures with additional coursework in basic first aid and CPR. **Prerequisite:** Consent of instructor. Offered as needed

CVL143 Introduction to Civil Survey  
2 class and 3 lab hr/wk, 3 cr.  
Introduces a broad variety of office- and field-based activities associated with the work of a professional land surveyor. Emphasizes professional-technical development and working as a member of a team. **Corequisite:** MTH070, or MTH081 or higher; or consent of instructor. F

CVL144 Intermediate Civil Survey  
2 class and 3 lab hr/wk, 3 cr.  
Continues Introduction to Civil Survey (CVL143). Covers plane survey office and field practices. Includes measurement techniques associated with differential leveling and field measurements with advanced electronic survey equipment. Includes basic office calculations relating to surveying, including coordinate geometry, differential levels and simple curves. Covers field survey procedures for staking horizontal curves, data collection and differential levels. Introduces a basic understanding of metes and bounds descriptions. Emphasizes professional-technical development and team work skills. **Prerequisite:** CVL143 with a grade of C or better; or consent of instructor. **Corequisite:** MTH082 or higher. W

CVL232 Applied Statics and Strength of Materials  
4 class hr/wk, 4 cr.  
Covers classification and analysis of internal and external forces induced in structures by various types of loading. Introduces structural factors such as centroids, moment of inertia, stress and deflection. Covers the design of structures based on structural analysis using equilibrium, stress, and deflection concepts. **Prerequisite:** MTH082 or MTH112; and PH121; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

CVL280B-L Cooperative Work Experience  
See CWE—Cooperative Work Experience

Cooperative Work Experience  
See also FE-Field Experiences

Cooperative Work Experience  
280B-L  
2-12 cr.  
Assist students in finding an internship/ CWE at a business, or agency for on-the-job training and experience related to instruction in student’s program of study. Field experience is supervised by college instructors and work experience coordinators. See program advisors. F, W, Sp, Su

Dental Assisting  
DEN150 Dental Sciences  
3 class hr/wk, 3 cr.  
Focuses on a study of the sciences associated with the practice of dentistry. Includes oral microbiology, plaque formation, plaque-related diseases, oral pathology, sterilization and disinfection principles, OSHA bloodborne pathogen and hazard communication standards, anesthesia, and pharmacology. **Prerequisite:** Enrollment in the Dental Assisting program. F

DEN151 Introductory Concepts in Dental Assisting  
2 class and 3 lab hr/wk, 3 cr.  
Provides a basic study of the dental assistant’s role with emphasis on terminology, instruments and equipment, professional regimen, chairside techniques and patient communication. Emphasizes the qualifications necessary for success in the dental assistant field. **Prerequisite:** Enrollment in the Dental Assisting program. F

DEN153 Dental Materials 1  
2 class and 3 lab hr/wk, 3 cr.  
Introduces the various materials and laboratory equipment used in the dental office. Includes the chemical and physical properties, manipulation, and uses of restorative materials, medications, impression materials and dental cements. Includes an overview of restorative and crown preparation procedures. **Prerequisite:** Enrollment in the Dental Assisting program. F

DEN156 Dental Anatomy  
4 class hr/wk, 4 cr.  
Introduces dental anatomy. Particular attention is directed toward the oral cavity and its associated structures and anatomical terminology. Includes identification, form and function of the adult dentition, and deciduous dentition. Also includes dental charting for conditions of the oral cavity. **Prerequisite:** Enrollment in the Dental Assisting program. F

DEN160 Dental Specialties  
2 class and 3 lab hr/wk, 3 cr.  
Studies the various fields of specialized dentistry recognized by the American Dental Association Commission. Introduces applied psychology through role playing as related to the clinical application in the specialties. **Prerequisite:** Secondterm standing in the Dental Assisting program. W

DEN161 Dental Assisting Practicum 1  
1 class and 7 lab hr/wk, 3 cr.  
Provides supervised clinical experience in basic chairside assisting procedures, including material manipulation, oral evacuation, instrument transfer, charting and patient management at the Oregon Health Sciences University School of Dentistry. **Prerequisite:** Secondterm standing in the Dental Assisting program. W
DEN162 Intermediate Clinical Skills  
1 class and 3 lab hr/wk, 2 cr.  
Presents the theory and practice of intermediate clinical responsibilities delegated to dental auxiliary personnel. Includes discussion, demonstration and practical application of alginate impressions, bite registration, oral hygiene instruction, prevention products and their uses, nutritional influences, dietary analysis, patient motivation and dental dam placement and removal. **Prerequisite:** Second-term standing in the Dental Assisting program. W

DEN163 Dental Materials 2  
2 clas and 3 lab hr/wk, 3 cr.  
Introduces the principles of laboratory procedures related to fixed and removable prosthetics. The utilization of appropriate laboratory equipment by the student will be supplemented by instructional demonstration of additional laboratory techniques and materials. **Prerequisite:** Second-term standing in the Dental Assisting program. W

DEN164 Dental Radiology 1  
2 class and 3 lab hr/wk, 3 cr.  
Provides information pertinent to the principles of dental radiology, and legal aspects regarding the use of radiation. Includes the history of dental radiology; terminology; radiation physics; machine operation and equipment use; biological effects of x-rays; principles of radiation health, safety, and protection; anatomical landmarks; dental films and darkroom processing techniques. Students use x-ray manikins to practice film placement and exposure techniques. Two patient full-mouth radiographic series are required and exposed films are processed and evaluated. **Prerequisite:** Second-term standing in the Dental Assisting program. W

DEN165 Dental Office Emergency Management  
2 class hr/wk, 2 cr.  
Emphasizes prevention and treatment of the most common medical emergencies in the dental office. Covers the preparation of the office and staff to deal with these emergencies, including gathering patient information, such as a health history and vital signs. Discusses the use of emergency equipment and supplies. Emphasizes use of dental anesthesia and pharmacology and their role in medical emergency situations. **Prerequisite:** Enrollment in the Dental Assisting Program. F

DEN1670 Dental Office Management  
2 class hr/wk, 2 cr.  
Introduces management of the dental office, including business office procedures and techniques, written and electronic communications, computer use, dental insurance, inventory control, accounts receivable, recall systems, and staff and patient management. Prepares students for successful employment by incorporating resume writing, completion of a job application, and interview techniques. **Prerequisite:** CIS101 with a grade of C or better; and second-term standing in the Dental Assisting Program. W

DEN171 Dental Assisting Practicum 2  
1 class and 24 lab hr/wk, 9 cr.  
Consists of observation and practice in a dental office setting. Develops communication rapport with the dental team and patients; performs specified basic, intermediate, and expanded function chairside procedures; completes reception and business office tasks; applies skills in laboratory procedures; and exposes and processes patient radiographic images as directed by the dentist. Prepares students for the Dental Assisting National Board (DANB) Certification Examination. **Prerequisite:** Third-term standing in the Dental Assisting program. Sp

DEN172 Expanded Functions  
2 class and 3 lab hr/wk, 3 cr.  
Presents the theory and practice of legal Expanded Functions for dental assistants. Includes discussion, demonstration, and practical application of the following: intra-extra oral exam, coronal polish; topical fluoride; amalgam and composite polish; provisional coverage; suture removal; cement removal; pit and fissure sealant placement, and tooth whitening. **Prerequisite:** Third-term standing in the Dental Assisting program. Sp

DEN174 Dental Radiology 2  
1 class and 3 lab hr/wk, 2 cr.  
Continues DEN164. Allows students to take additional adult and pediatric (pedodontic) manikin films using lowdose technique. Students develop skills in patient management and improve radiographic techniques by completing at least one full mouth patient x-ray series. Includes information in taking pediatric images, images in edentulous areas, images taken while the patient is in a supine position, endodontic images, occlusal views, and extra-oral images. Students learn utilization of the panoramic x-ray unit, film duplicators, and automatic film processors. Students expose and evaluate all images, and are eligible to take the State x-ray examination upon successful completion of DEN164 and DEN174. **Prerequisite:** Thirdderm standing in the Dental Assisting program. Sp

DEN263 Dental Materials for Dental Hygiene  
2 class and 6 lab hr/wk, 4 cr.  
Examines on general properties, composition and manipulation of common dental materials and restorative materials. Expanded functions including denture relines and amalgam polishing are practiced. **Prerequisite:** Current Oregon Tech Dental Hygiene student. Sp

**Drafting Technology**  
See also CAM—Computer-Aided Manufacturing

DRF095A,B,C Special Projects in Drafting and Design  
3–9 hrs/wk, 1-3 cr.  
A drafting project or problem is identified and a contract is written jointly by the student and instructor that sets forth a proposal to complete the project or solve the problem. It identifies objectives, procedures and equipment needed together with key checkpoints for student-instructor conferences. Intended for, but not limited to, second-year drafting or mechanical design students as an elective. Potential areas of consideration for this course include: community development projects, computer programming and applications, machine design, mapping, civil engineering drafting, or any drafting-related field. Consideration and encouragement will be given for an interdisciplinary team of students working on a common problem. **Prerequisite:** Second-year standing and/or consent of instructor. F, W, Sp, Su

DRF101 Basic CAD for Electronics  
1 class and 3 lab hr/wk, 2 cr.  
Covers the use of AutoCAD, schematic drawings, chassis design, block diagrams, and PC board layout drawings, in addition to basic CAD operations in the field of electronic drafting. F

DRF110 Applied Engineering Computations  
2 class hr/wk, 2 cr.  
Covers computation and presentation of technical data to solve typical problems found in mechanical, civil, architectural and related areas. **Prerequisite:** MTH070 with a grade of C or better; or consent of instructor. W

DRF112 Sketching  
3 lab hr/wk, 1 cr.  
Covers basic technical sketching and field measurement skills and techniques as used in drafting process and practical pictorial communication. F
DRF130 CAD 1
2 class and 3 lab hr/wk, 3 cr.
Incorporates hands-on experience with CAD (computer-aided drafting) software. Introduces standard graphics commands for two-dimensional drawings. Most students will use AutoCAD, but other general-purpose CAD software can also be used. F, W, Sp, Su

DRF131 CAD 2
2 class and 3 lab hr/wk, 3 cr.
Incorporates hands-on experience with CAD. Covers more complex graphics commands for two-dimensional drawings. Most students will use AutoCAD, but other general-purpose CAD software can also be used. Prerequisite: DRF130 with a grade of C or better; or consent of instructor. F, W, Sp, Su

DRF132 CAD 3
2 class and 3 lab hr/wk, 3 cr.
Incorporates hands-on experience with AutoCAD. Covers advanced graphics commands for two-dimensional drawings. Introduces elementary customization techniques. Covers three-dimensional models and drawings created from solids. Prerequisite: DRF131 with a grade of C or better; or consent of instructor. Sp

DRF140 3-D Modeling with Inventor
2 class and 3 lab hr/wk, 3 cr.
Uses AutoDesk Inventor as an introduction to 3-D modeling. Covers fundamentals of graphics communication. Includes multi-view drawings, dimensioning, section views, auxiliary views and descriptive geometry concepts. F

DRF150 Architectural Drafting 1
1 class and 6 lab hr/wk, 3 cr.
Covers basic architectural drafting techniques and methods. Includes dimensioning, layout, symbols and conventional construction methods used in residential buildings. Uses AutoCAD to draft a partial set of construction drawings. Prerequisite: DRF131 with a grade of C or better; or consent of instructor. F, W, Sp

DRF155 Mapping and Plating
1 class and 6 lab hr/wk, 3 cr.
Covers map components, legal descriptions, plot plans and contours. Introduces civil 3D software, including Geographic Information Systems and Global Positioning Systems. Prerequisite: DRF131 with a grade of C or better; or consent of instructor. F

DRF160 Spreadsheet and Database Applications
2 class and 3 lab hr/wk, 3 cr.
Covers engineering and technical applications of purchased software packages, focusing on Excel. Includes the use of spreadsheets to store and manipulate data, perform engineering calculations, and aid in statistical analysis and parametric design. Prerequisite: MTH081 or MTH111, either with a grade of C or better; or consent of instructor. Sp

DRF165 CAD System Administration
2 class and 3 lab hr/wk, 3 cr.
Covers customizing parameters for maximizing AutoCAD. Includes researching and installing custom programs for optimizing drawing performance. Also covers creating custom menus systems for specific applications. Prerequisite: DRF131 with a grade of C or better; or consent of instructor. Sp

DRF210 Parametric Design with SolidWorks
1 class and 6 lab hr/wk, 3 cr.
Covers graphic communication used throughout technical and engineering fields. Applies spatial analysis and engineering design concepts using parametric modeling software. Prerequisite: DRF130 with a grade of C or better; or consent of instructor. F, W

DRF211 Parametric Design with SolidWorks 2
1 class and 6 lab hr/wk, 3 cr.
Covers advanced modelling techniques employed in SolidWorks. Introduces weldment and sheet metal features. Applies features such as configurations, design tables, add-ins, and adaptive parts for sophisticated part and assembly modelling. Explores translation of various file types used for design and drafting to/from SolidWorks. Prerequisite: DRF210 or EGR248 with a grade of C or better; or consent of instructor. Sp

DRF220 Geographic Information Systems
1 class and 3 lab hr/wk, 2 cr.
Uses geographic information systems (GIS) software to view geographic relationships. Studies GIS basic concepts and covers physical, climatic, and social attributes of various regions of the world. W

DRF230 Introduction to MicroStation
2 class and 3 lab hr/wk, 3 cr.
Introduces the MicroStation drafting software. Covers basic drawing, editing and display commands. Contrasts operations with AutoCAD. F

DRF231 Advanced MicroStation
1 class and 6 lab hr/wk, 3 cr.
Uses MicroStation software to produce building construction drawings. Emphasizes creating master drawings containing all building data. Includes manipulation of file contents to produce multiple drawings. Introduces 3D modeling tools. Prerequisite: DRF230 with a grade of C or better; or consent of instructor. W

DRF240 Architectural Drafting 2
1 class and 6 lab hr/wk, 3 cr.
Covers advanced architectural drafting techniques and methods. Incorporates a full set of working drawings, shear wall designs, advanced construction details, building process, current building codes used in residential buildings. Uses AutoCAD to draft a full set of construction drawings. Prerequisite: DRF150 with a grade of C or better; or consent of instructor. W, Sp

DRF241 Structural Drafting
1 class and 6 lab hr/wk, 3 cr.
Incorporates hands-on experience with AutoCAD. Covers traditional drafting, light commercial and residential construction drawings. Emphasizes building materials of steel and concrete. Prerequisite: DRF131 with a grade of C or better; or consent of instructor. Sp

DRF243 Architectural Design
1 class and 6 lab hr/wk, 3 cr.
Covers elements and principles of aesthetic design. Applies 3D design and model to assigned project. Develops light commercial/residential project with emphasis on specific design criteria. Prerequisite: DRF240 with a grade of C or better; or consent of instructor. Sp

DRF245 Civil Drafting and Design
1 class and 9 lab hr/wk, 4 cr.
Introduces AutoCAD Land Development Desktop. Develops residential subdivision and typical utility design documentation. Prerequisite: DRF132 and DRF155, each with a grade of C or better; or consent of instructor. W

DRF246 Project Development
1 class and 6 lab hr/wk, 3 cr.
Covers advanced elements of residential subdivision design and layout with associated utility work based on a theoretical set of municipal standards and specifications. Incorporates preparation of all design documentation in review-ready condition. Prerequisite: DRF245 with a grade of C or better; or consent of instructor. Sp
DRF262 Machine Design  
1 class and 6 lab hr/wk, 3 cr.  
Covers practical design situations as related to the drafting room and machine shop floor. The design project(s) selected will lead to a comprehensive study of parts relationships, materials application, and product design. Duo-dimensioning (English-metric), geometric tolerancing, bolting and pinning, and welding applications are an integral part of this course. Prerequisite: DRF210 with a grade of C or better; or consent of instructor. W

DRF271 Commercial Drafting with Revit 1  
1 class and 9 lab hr/wk, 4 cr.  
Introduces creation of architectural plans, elevations, and sections of a light commercial project using Revit software. Covers an introduction to commercial architectural techniques and materials, as well as Revit software. First course in a three-term commercial drafting sequence using Revit software. Prerequisite: DRF131 with a grade of C or better; or consent of instructor. Sp

DRF272 Commercial Drafting with Revit 2  
1 class and 9 lab hr/wk, 4 cr.  
Introduces creation of architectural plans, elevations, and sections of a light commercial project using Revit software. Covers an introduction to commercial architectural techniques and materials, as well as Revit software. Second course in a three-term commercial drafting sequence using Revit software. Prerequisite: DRF271 with a grade of C or better; or consent of instructor. W

DRF273 Commercial Drafting with Revit 3  
1 class and 9 lab hr/wk, 4 cr.  
Covers creation of project documentation including schedules, interior elevations, symbol legend, table of contents and cover sheet data. Develops a conceptual tenant improvement plan for one portion of the project based upon client specifications and requirements. Includes rendering a completed project and creating an animation. Third course in a three-term commercial drafting sequence using Revit software. Prerequisite: DRF272 with a grade of C or better; or consent of instructor. Sp

DRF280B-L Cooperative Work Experience  
See CWE—Cooperative Work Experience

Diesel Technology  

DSL101 Diesel Technology 1  
3 class and 18 lab hr/wk, 12 cr.  
Examines engine theory, engine components, and proper diesel engine rebuild procedures. Introduces basic engine electrical and fuel systems, shop tool use and maintenance. Includes lift truck inspection and operator training. Prerequisite: Placement into WR080 and MTH020; or consent of instructor. F

DSL102 Diesel Technology 2  
3 class and 18 lab hr/wk, 12 cr.  
Covers fuel injection systems and how they relate to diesel engine performance and operation. Explores the operations of all major fuel injection devices including diesel fuels, fuel transfer pumps, fuel nozzles, fuel injectors, filtration systems, metering systems and governing systems. Examines basic electrical theory, electrical components, and proper electric diagnostic procedures. Introduces basic electrical systems, diagnostic tool use and maintenance. Includes Electronic Engine controls and basic multiplexing. Prerequisite: DSL101 with a grade of C or better; or consent of instructor. W

DSL103 Diesel Technology 3  
3 class and 18 lab hr/wk, 12 cr.  
Explores concepts in gear transmissions, differentials and clutches involved in the application of diesel-powered vehicles. Covers fundamentals of hydraulics in theory and shop practice. Provides a solid background in applications of hydraulics in the trucking and heavy equipment industry. Covers heavy-duty air conditioning operation, trouble shooting and system repair. Prepares students to confidently work on power trains and their components and to diagnose and repair hydraulic and air conditioning systems in an industrial environment. Prerequisite: DSL102 with a grade of C or better; or consent of instructor. Sp

DSL201 Diesel Technology 4  
3 class and 18 lab hr/wk, 12 cr.  
Covers Preventative Maintenance Inspection (PMI) of vehicles, Department of Transportation (DOT) out of service criteria, PM scheduling, lubricants and Winterizing. Covers Detroit Diesel Electronic Control (DDEC) operation and diagnostics. Examines concepts in medium/heavy duty truck brake systems, suspension, and steering. Covers air brake systems, hydraulic brake systems, truck foundation brakes, antilock brakes, automatic slack adjusters, wheels, tires and fifth wheels. Emphasizes safety and the use of service manuals and textbooks. Prepares students to confidently diagnose and tune-up a diesel engine in industrial environment. This is an outcome-based course utilizing a lecture/lab format and includes videos, workbooks, demonstrations, lectures, and hands on learning. Prerequisite: DSL103 with a grade of C or better; or consent of instructor. F

DSL202 Diesel Technology 5  
3 class and 18 lab hr/wk, 12 cr.  
Introduces advanced theory and applications of automatic and power shift transmissions used in the heavy equipment industry. Covers fuel injection pumps and their applications, fuel system diagnostics and electronic engine controls. Prepares students to confidently work on heavy duty power trains and their components and it prepares the student to confidently diagnose and repair diesel fuel injection pumps, governors and electronics in an industrial environment. Prerequisite: DSL201 with a grade of C or better; or consent of instructor. W

DSL203 Diesel Technology 6  
3 class and 18 lab hr/wk, 12 cr.  
Covers advanced automotive electrical theory, electrical components, and proper electric diagnostic and repair procedures. Includes advanced automotive electrical systems, diagnostic tool use and maintenance. Covers advanced hydraulics and hydrostatics used on heavy equipment, farm machinery, marine equipment, hydraulic cranes, backhoes, and other equipment. Emphasizes troubleshooting. Prerequisite: DSL202 with a grade of C or better; or consent of instructor. Sp

Economics  

EC200 Introduction to Economics  
4 class hr/wk, 4 cr.  
Introduces the economic concepts and analysis in the process of studying important issues in modern society such as unemployment, inflation, pollution, poverty, income distribution, health care, and development. Prerequisite: Placement into WR115 (or higher); or completion of WR090 (or higher); and completion of MTH070 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su
EC201 Introduction to Microeconomics
4 class hr/wk, 4 cr.
Introduces microeconomic theories of how a capitalist society operates. Covers the concepts of aggregate supply and demand, fiscal and monetary policies, international trade, money and banking, the Federal Reserve, business cycles, poverty, unemployment and inflation. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH095 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

EC202 Introduction to Macroeconomics
4 class hr/wk, 4 cr.
Introduces macroeconomic theories of how a capitalist society operates. Covers the concepts of commodity production, price elasticity, revenue, production and cost, profit, marginal analysis, competitive and imperfectly competitive markets, market power, antitrust, externalities and other market failures, (de)regulation of business, pecuniary emulation, conspicuous consumption, income distribution, poverty, and labor (factor) markets. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH095 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

EC203 Applications to Economic Issues
4 class hr/wk, 4 cr.
Emphasizes such global issues as economic growth, environmental protection, rent, interest and profit, international trade and finance, and international development. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH095 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

Early Childhood Education
See also ED—Education, and HDF—Human Development and Family Studies

ECE086 Family Day Care 1 (Basics)
1 class hr/wk, 1 cr.
Provides the caregiver with basic information on managing a family day care home. Includes practical suggestions for working with parents, keeping business records, providing health and safe environments for children, and establishing a home business. Offered as needed

ECE142 Textiles with Children
1 class hr/wk, 1 cr.
Explores an approach for the use of textiles with children preschool-3rd grade. Involves hands-on experiences with a wide variety of textile activities. Includes discussion of planning and implementing developmentally appropriate textile activities with an emphasis on the value of such experiences across domains. Includes experiences for children of different ages, cultures, and abilities. Offered as needed

ECE144 Creating Sensory-Rich Environments
1 class hr/wk, 1 cr.
Explores and designs sensory-rich environments for young children. Emphasizes infants and toddlers. Connects environments with caregiver and peer interactions. Integrates research on brain architecture with sensory-rich environments. Offered as needed

ECE145 Group Games for School Age Children
1 class hr/wk, 1 cr.
Designed for child care providers, elementary school teachers, and afterschool care providers. Explores non-competitive and cooperative group games and activities for children ages 5 through 8. Emphasizes development across social, emotional, physical, and intellectual domains. Includes games and experiences for children of different ages, cultures, and abilities. Offered as needed

ECE146 Nature Play for Young Children
1 class hr/wk, 1 cr.
Provides a deeper look at how nature play can be integrated into the daily curriculum of toddlers, preschool, and school age children. Designs indoor and outdoor natural spaces. Prerequisite: ECE251 with a grade of C or better; or consent of instructor. Offered as needed

ECE147 Movement Experiences in Young Children: Advanced
1 class hr/wk, 1 cr.
Explores importance of movement for young children's development. Connects movement activities with brain development. Examines role of language bridging movement and cognitive development. Surveys appropriate activities for children. Investigates role of the teacher in supporting children's movement activities. Prerequisite: ECE153 with a grade of C or better; or consent of instructor. Offered as needed

ECE150 Introduction and Observation
3 class hr/wk, 3 cr.
Focuses on the history of early childhood education (birth to 8 years) and the value and use of objective observations as a teaching tool. Includes a survey of professional opportunities within the field and observation in a variety of childcare settings including early childhood education and early childhood special education and venues. F

ECE151 Observing and Guiding Behavior
3 class hr/wk, 3 cr.
Emphasizes the role of the teacher and techniques of individual and group guidance. Approaches guidance from a developmental constructivist perspective. Prepares students to customize guidance strategies through the use of objective observations. Discusses long-term guidance goals that support typically and atypically developing children ages birth to 8 years. Reflects on how teacher/child and family relationships influence guidance. Emphasizes how routines, schedules, and the physical environment support guidance. Prerequisite: Placement into RD090 and WR090; and completion of ECE150 with a grade of C or better; or consent of instructor. W

ECE152 Creative Activities
2 class and 2 lab hr/wk, 3 cr.
Focuses on understanding and implementing an inclusive developmental approach to creative activities for young children (birth to 8 years). Involves hands-on experience with a wide variety of activities as well as discussion on how to present and evaluate activities. Includes observing young children and their interactions during creative activities, understanding and making proper accommodations and support, use of natural materials, cooking experiences, art display, and sewing. Prerequisite: Placement into RD090 and WR090; or consent of instructor. W

ECE153 Music and Movement for Young Children
3 class hr/wk, 3 cr.
Explores the value of music in the preschool setting, the role of the teacher, environments that support music and movement experiences, basic music terminology and concepts, and the use of spontaneous and planned activities for young children. Prerequisite: Placement into RD090 and WR090; or consent of instructor. Sp
ECE154 Children's Literature and Literacy  
3 class hr/wk, 3 cr.  
Explores in depth how children develop literacy. Offers an overview of what is available in quality children’s literature, along with a rationale for the purposes of such literature, ways to implement its use and ways to evaluate its appropriateness in a given school situation. Includes the evaluation and reading of children’s books and holding story groups with children.  
Prerequisite: Placement into RD090 and WR090; or consent of instructor. Sp  
ECE155 Child Nutrition, Health, and Safety  
3 class hr/wk, 3 cr.  
Prepares early childhood educators to meet the nutritional and health and safety needs of young children of all abilities. Considers the developmental abilities and culture of all children and families. Uses a constructivist philosophy to instruct students to implement developmentally appropriate food experiences such as snack and meal times in inclusive early childhood settings or home environments. Prerequisite: HDF249 with a grade of C or better; or consent of instructor. W  
ECE161 Infant and Toddler Practicum  
1 class and 6 lab hr/wk, 3 cr.  
Provides experience working with infants and toddlers in a community with a professional teacher. Will observe and practice high-quality care. Prerequisite: HDF249 with a grade of C or better; or consent of instructor. W, Sp  
ECE162 Early Childhood Educator Orientation  
1 class and 3 lab hr/wk, 2 cr.  
Emphasizes the roles and responsibilities of the early childhood educator. Offers experience working with young children in laboratory setting and assisting with supervision of the various daily activities in a full-day child care program. Prerequisite: ECE151 with a grade of C or better; or consent of instructor. F, W, Sp  
ECE163 Preschool Practicum  
1 class and 9 lab hr/wk, 4 cr.  
Provides experience working with young children in a laboratory preschool setting. Assists with supervision of the various activities in a preschool program. Includes some curriculum planning for the young child. Prerequisite: HDF225, HDF247, HDF248, ECE151, and ECE162; and consent of ECE faculty. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp  
ECE251 Young Children Environments  
3 class hr/wk, 3 cr.  
Focuses on planning, implementing, and evaluating environments for typically and atypically developing children from birth-8 years of age. Includes using observation and facilitating play in the environment, room arrangements, outdoor areas, equipment selection and sources, children’s furniture, and incorporating recycled materials in the classroom. Prerequisite: Second year standing in the Early Childhood Education program; and placement into RD090 and WR090; or consent of instructor. F  
ECE261 Student Teaching 1  
2 class and 12 lab hr/wk, 6 cr.  
Offers supervised teaching of young children in a laboratory setting. Prerequisite: ECE163 with a grade of C or better; second-year standing in the Early Childhood Education program; and consent of instructor. F, W, Sp  
ECE262 Student Teaching 2  
2 class and 12 lab hr/wk, 6 cr.  
Offers supervised teaching of young children in a laboratory preschool and in a community setting. Prerequisite: ECE261 with a grade of C or better; and consent of instructor. F, W, Sp  
ECE280B-L Cooperative Work Experience  
See CWE–Cooperative Work Experience.  
ECE295 Administration of ECE Programs  
3 class hr/wk, 3 cr.  
Covers areas of administrative responsibility: finances and budget, and sources of income; selection and purpose of materials and equipment; standards (local, state, federal) and regulatory agencies in regard to health, nutrition, and safety. Computer simulations and software will be used to experience administrative functions. Prerequisite: Second-year standing in Early Childhood Education program; placement into RD090 and WR090; or consent of instructor. Sp  
Education  
ED100 Introduction to Education  
2 class hr/wk and 3 lab hr/wk, 3 cr.  
Examines teaching as a profession. Provides opportunities for direct experience with, and analysis of, educational settings. Explores current issues in education and characteristics of effective schools. F, W, Sp, Su  
ED105 Teacher Cadets  
1 class hr/wk and 2 lab hr/wk, 2 cr.  
Covers practical application of theory and fundamental concepts of preschool, elementary, and secondary education, including history, development, and organization. Offered as needed  
ED114 Instructional Strategies in Math and Science  
3 class hr/wk, 3 cr.  
Introduces the development of math and science concepts and presents a systematic approach to math and science instruction. Students learn to link math and science instruction and assessment to state content standards. Prerequisite: ED100 and MTH060, each with a grade of C or better; or consent of instructor. Sp  
ED130 Comprehensive Classroom Management  
3 class hr/wk, 3 cr.  
Provides current theory and methodology for managing small and large groups of students so that students choose to be productively involved in instructional activities. Covers the four major factors or skill areas of effective classroom management: 1) understanding students’ personal/psychological and learning needs, 2) establishing positive adult-student and student-student relationships, 3) implementing instructional methods that facilitate optimal learning, and 4) using organizational and group management methods that maximize positive student behavior and learning. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of ED100; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, Sp  
ED200 Foundations of Education  
3 class hr/wk, 3 cr.  
Provides an overview of the American educational system, including historical, legal and philosophical foundations. Explores the governance of local schools and districts and considers the roles and ethical obligations of professional educators. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of ED100; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better. Offered as needed.  
ED229 Learning and Development  
3 class hr/wk, 3 cr.  
Application of theory regarding children’s learning and development from kindergarten through middle school, including intelligence, motivation, and the process of learning. Applies theory to teaching strategies and the connection between teaching and learning. Covers varied learning styles and multiple intelligences. Designed for students seeking initial teacher licensure in elementary and middle school teaching. Prerequisite: Placement into, or completion of WR115 (or higher); or completion of RD115 (or higher); and concurrent enrollment; and completion of ED200; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su
ED230 Children’s Literature in the Diverse Classroom
3 class hr/wk, 3 cr.
Discusses high quality children’s literature and how to use it to promote literacy in children in elementary and middle school. Examines teaching techniques and social process of literacy development with special focus on literacy development in bilingual and bicultural students. Prerequisite: Placement into or completion of WR115 (or higher); or completion of RD115 (or concurrent enrollment); and completion of ED200; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, Sp

ED233 Adolescent Learning and Development
3 class hr/wk, 3 cr.
Examines adolescent cognitive and social development and how it relates to learning theory. Discusses best practices of teaching in middle and high school settings. Examines varied learning styles and cultural factors that impact adolescent learning and instructional strategies that create a productive learning environment. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better. Sp

ED235 Technology for Educators
3 class hr/wk, 3 cr.
Introduces current advanced technology available in education. Emphasizes the tools to evaluate, select and implement appropriate technology in the instructional setting. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better. Offered as needed

ED240 Education Practicum and Seminar
2 class and 3 lab hr/wk, 3 cr.
Practicum portion of course provides experience in educational settings working with students and school groups. Seminar portion of course links theory to practice and informs activities and task in the practicum. Presents educational topics that link themes of social justice, equity, and serving diverse student needs to real world situations, school policy, and current legislation. Course may be repeated for a maximum of six credits. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; and consent of instructor. Recommended that course be taken in the term prior to transfer to 4-year university. F, W

ED258 Culturally Responsive Pedagogy
3 class hr/wk, 3 cr.
Explores the concept of culture and the relationship with the learning process. Examines strategies to make culturally responsive teaching accessible as a practice. Discusses the value of cultural identity in the teacher-student-family relationship in linguistic diverse populations. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better. F, W, Su

ED265 Inclusion: Special Needs Students
3 class hr/wk, 3 cr.
Introduces the concept of inclusion of children with disabilities in the classroom. Discusses and identifies historical, philosophical, and legal issues related to special education. Includes specific study of the disability categories covered under Individuals with Disabilities Education Act (IDEA) with special attention to the diverse population of today’s schools. Prerequisite: Placement into or completion of WR115 (or higher); or completion of RD115 (or concurrent enrollment); and completion of ED200; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, Sp

ED267 Working with Students with Autism Spectrum Disorders
3 class hr/wk, 3 cr.
Covers Autism Spectrum Disorders (ASD) characteristics including learning style, communication, social interaction, sensory processing, behavior, visual/ concrete supports, teaching strategies, and teamwork. Brings together theory and discussion; demonstration; practice and feedback; and coaching in the classroom. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better. Offered as needed

Engineering
See also GE—General Engineering

EGR201 Electrical Fundamentals 1
3 class and 3 lab hr/wk, 4 cr.
Studies basic electrical circuit theory, including voltage, current and power relationships, and circuit parameters of resistance, inductance, and capacitance. Covers basic DC and natural responses of circuits. Also includes operational amplifier theory and an introduction to AC analysis. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH252; or consent of Instructor. (All prerequisite courses must be completed with grade of C or better.) F

EGR202 Electrical Fundamentals 2
3 class and 3 lab hr/wk, 4 cr.
Covers sinusoidal steady-state analysis, the basic operation of three-phase circuits and analysis of electric circuits containing mutually-coupled coils. Also covers transformer function in circuits and the characteristics of resonant circuits. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH252 and EGR201; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

EGR203 Electrical Control Fundamentals
3 class and 3 lab hr/wk, 4 cr.
Covers Fourier series and Laplace Transforms and their use in electrical control theory. Includes the Bode diagram, Boolean algebra, and basic logic gates. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH252, MTH256, and EGR202; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

EGR211 Statics
3 class and 2 lab hr/wk, 4 cr.
Analyzes the forces induced in structures and machines by various types of loading. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH252; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F

EGR212 Dynamics
3 class and 2 lab hr/wk, 4 cr.
Studies kinematics, Newton's laws of motion, work-energy relations, and impulse-momentum relationships applied to engineering systems. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH252, and PH211; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

EGR213 Strength of Materials
3 class and 2 lab hr/wk, 4 cr.
Covers properties of structural materials and analysis of stress and deformation in axially loaded members, circular shafts, beams, and statically indeterminate systems. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of EGR211, MTH252, and PH211; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp
EGR214 Introduction to Statistics for Engineers
3 class hr/wk, 3 cr.
Covers probability, common probability distributions, sampling distributions, estimation, hypothesis testing, control charts, regression analysis, and experiment design. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH252; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W

ELT111 Electronics Orientation
2 lab hr/wk, 1 cr.
Introduces the field of electronics and its opportunities. Covers career opportunities and requirements, basic vocabulary, soldering, static awareness, tool identification, safety, hardware, and chemicals used in electronics. Promotes and supports sustainable and green technologies. F, W

ELT121 Programming Concepts 1
3 class and 2 lab hr/wk, 4 cr.
Offers the first course in the Programming Concepts sequence. Introduces computer programming, computer hardware interfacing, and computer operating systems using C/C++ language. Promotes and supports sustainable and green technologies. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH252; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

EGR248 Graphics and 3-D Modeling
1 class and 6 lab hr/wk, 3 cr.
Covers graphic communication, multi-view and pictorial representation, conceptual design, spatial analysis, and engineering design representation through use of parametric modeling software. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of DRF130; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F

Electronics Technologies
See also MT—Industrial, NET—Network Technology, and RNW—Renewable Energy Management

ELT100 Electronics Fundamentals for Non-Majors
3 class and 2 lab hr/wk, 4 cr.
Introduces the fundamental theories, circuits, and devices used in electronics. Covers direct and alternating current theory, test equipment, semiconductor devices, motors, and generators. Emphasizes practical concepts in both lectures and laboratories. Suitable for those desiring a general knowledge of electronics or exploring electronics as a career. Promotes and supports sustainable and green technologies. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of DRF130; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F

ELT110 Electronics Fundamentals
3 class and 2 lab hr/wk, 4 cr.
Introduces the fundamental theories, circuits, and devices used in electronics. Covers direct and alternating current theory, test equipment, semiconductor devices, motors, and generators. Emphasizes practical concepts in both lectures and laboratories. Suitable for those desiring a general knowledge of electronics or exploring electronics as a career. Promotes and supports sustainable and green technologies. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of DRF130; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F

ELT121 Programming Concepts 1
3 class and 2 lab hr/wk, 4 cr.
Offers the first course in the Programming Concepts sequence. Introduces computer programming, computer hardware interfacing, and computer operating systems using C/C++ language. Promotes and supports sustainable and green technologies. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH252; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

ELT131 Electronic Concepts 1
3 class and 3 lab hr/wk, 4 cr.
Covers atomic and alternating current (AC) electrical theory applicable to the field of electronics. Introduces voltage, current, resistance, and power concepts in analysis, construction, and testing of resistive DC circuits. Includes series, parallel, and series-parallel resistive circuit analysis techniques and theorems. Promotes and supports sustainable and green technologies. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of DRF130; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

ELT132 Electronic Concepts 2
3 class and 3 lab hr/wk, 4 cr.
Covers atomic and alternating current (AC) electrical theory applicable to the field of electronics. Introduces voltage, current, resistance, and power concepts in analysis, construction, and testing of resistive DC circuits. Includes series, parallel, and series-parallel resistive circuit analysis techniques and theorems. Promotes and supports sustainable and green technologies. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of DRF130; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

ELT141 Transistor Fundamentals
3 class and 3 lab hr/wk, 4 cr.
Introduces semiconductor physics and the fundamental principles of diodes and bipolar transistors. Promotes and supports sustainable and green technologies. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of DRF130; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

ELT142 Semiconductor/Optoelectronic Devices
2 class and 3 lab hr/wk, 3 cr.
Covers the fundamentals of basic diode rectifier, multiplier, and transistor voltage regulators and current limiting circuits. Introduces the operating principles of solid-state devices such as unijunction transistors, special purpose diodes, photovoltaic cells, thyristors, and optoelectronic devices. Promotes and supports sustainable and green technologies. Prerequisite: ELT141 with a grade of C or better; or consent of instructor. Sp

ELT143 Pulse Circuit Fundamentals
2 class and 3 lab hr/wk, 3 cr.
Introduces the theory, analysis and operation of discrete pulse waveform circuits. Promotes and supports sustainable and green technologies. Prerequisite: ELT141 with a grade of C or better; or consent of instructor. Sp

ELT151 Digital Fundamentals
3 class and 2 lab hr/wk, 4 cr.
Introduces digital logic theories: number systems and conversions, Boolean algebra, simplification theorems, combinatorial logic, and arithmetic. Promotes and supports sustainable and green technologies. Prerequisite: ELT131 with a grade of C or better; or consent of instructor. W

ELT161 Linear IC Fundamentals
3 class and 3 lab hr/wk, 4 cr.
Introduces linear integrated circuit amplifiers. Emphasizes device parameters and basic circuit operating characteristics. Includes linear integrated circuit amplifying devices for comparison and evaluation through laboratory experiments. Promotes and supports sustainable and green technologies. Prerequisite: ELT132 and ELT141, each with a grade of C or better; or consent of instructor. Corequisite: ELT133 and ELT142. Sp

ELT222 Programming Concepts 2
3 class and 2 lab hr/wk, 4 cr.
Provides the second course in the Programming Concepts sequence. Covers interfacing and application of C/C++ concepts to common hardware devices in electronics. Promotes and supports sustainable and green technologies. Prerequisite: ELT110, ELT121, ELT132, and ELT141; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp
ELT244 Electronic Circuit Analysis  
3 class and 3 lab hr/wk, 4 cr.
Covers basic electronic devices and circuit designs. Emphasizes verifying and analyzing the designs, using the “R” parameters. Includes small-signal amplifiers, bi-polar circuits, FET circuits, oscillators, and power amplifiers. Includes some circuits analyzed using simulation software, while other circuits are constructed and analyzed, using laboratory test equipment. Promotes and supports sustainable and green technologies. **Prerequisite:** ELT141 and ELT133, each with a grade of C or better; or consent of instructor. **F, Offered as needed**

ELT252 Digital Circuit Applications  
2 class and 3 lab hr/wk, 3 cr.
Covers theory and emphasizes hands-on laboratory application of sequential digital logic circuits, which build upon the fundamentals of combinational digital logic developed in ELT151. Includes flip-flops, counters, registers, encoders and decoders, and bus logic. Introduces memory devices, analog-to-digital and digital-to-analog converters (ADCs/DACs), and programmable logic devices. Promotes and supports sustainable and green technologies. **Prerequisite:** ELT151 with a grade of C or better; or consent of instructor. **F, Offered as needed**

ELT253 Microprocessor Systems  
3 class and 3 lab hr/wk, 4 cr.
Explores hardware and software concepts used with microcomputers. Stresses theory and laboratory application of interfacing criteria, hardware and software troubleshooting techniques, writing machine language programs, and using written programs for testing hardware and system interface. Promotes and supports sustainable and green technologies. **Prerequisite:** ELT244 and ELT252, each with a grade of C or better; or consent of instructor. **W, Offered as needed**

ELT254 Computer Hardware  
3 class and 3 lab hr/wk, 4 cr.
Covers the hardware concepts fundamental to all computers and computer peripherals. Explains the interface between software and hardware. Also covers troubleshooting techniques. Promotes and supports sustainable practices and incorporates green technologies. **Prerequisite:** CIS1408 or NET1123, either with a grade of C or better; or consent of instructor. **W, Offered as needed**

ELT255 Advanced Data Communication  
3 class and 3 lab hr/wk, 4 cr.
Addresses theory of data communications and concepts of information exchange between computers via data networks. Emphasizes configuration, maintenance, and management of data communication network systems. Constructs and tests multiple network hardware configurations using the Novell NetWare Operating System. Promotes and supports sustainable and green technologies. **Prerequisite:** ELT253 with a grade of C or better; and DOS experience; and a high level programming language; or consent of instructor. **Offered as needed**

ELT256 Advanced Computer Architecture  
3 class and 3 lab hr/wk, 4 cr.
Emphasizes system installation and troubleshooting of both hardware and software in lab sessions. Intended for students with a solid foundation in digital logic, microprocessors and programming. Explains advanced computer system theory. Promotes and supports sustainable and green technologies. **Prerequisite:** ELT253 with a grade of C or better; or consent of instructor. **Sp, Offered as needed**

ELT257 Advanced Data Communication  
3 class and 3 lab hr/wk, 4 cr.
Addresses theory of data communications and concepts of information exchange between computers via data networks. Emphasizes configuration, maintenance, and management of data communication network systems. Constructs and tests multiple network hardware configurations using the Novell NetWare Operating System. Promotes and supports sustainable and green technologies. **Prerequisite/Corequisite:** ELT281 with a grade of C or better; or consent of instructor. **W, Offered as needed**

ELT281 Antennas and Transmission Lines  
2 class hr/wk, 2 cr.
Covers the practical and theoretical aspects of basic transmission lines and antennas. Includes characteristics and properties of open-wire, coaxial, and special purpose transmission lines, plus those of vertical and horizontal antennas, and the coupling of source, transmission lines, and antennas. Promotes and supports sustainable and green technologies. **Prerequisite:** ELT244 and ELT252, each with a grade of C or better; or consent of instructor. **W, Offered as needed**

ELT282 Telecommunications  
2 class and 3 lab hr/wk, 3 cr.
Covers communications theory and systems. Develops practical skills and reinforces theoretical concepts through laboratory experiments and field trips. Promotes and supports sustainable and green technologies. **Prerequisite/Corequisite:** ELT281 with a grade of C or better; or consent of instructor. **W, Offered as needed**

ELT283 Logical Troubleshooting  
3 class and 3 lab hr/wk, 4 cr.
Introduces and applies industry recognized standards, procedures, and practices for logical troubleshooting and analysis of electronic systems. Includes lab activities such as system-level, board-level and component-level troubleshooting and diagnosis, using live systems and real-world circuit faults. Promotes and supports sustainable and green technologies. **Prerequisite:** ELT244 and ELT161, each with a grade of C or better; or equivalent course as determined by instructor. **Sp, Offered as needed**

ELT291 Control, Robotics, and Power Systems  
3 class and 3 lab hr/wk, 4 cr.
Covers principles and concepts of electronic and electrical control and sensing devices used in industry. Introduces electric motors, three-phase electricity, control devices and circuits, process control systems and servos, measurement transducers, and programmable controllers (PLCs). Relates control systems to robotics and power generation systems. Promotes and supports sustainable and green technologies. **Prerequisite:** ELT142 and ELT262, each with a grade of C or better; or consent of instructor. **Sp, Offered as needed**

ELT293 Flexible Manufacturing Systems and Processes  
2 class and 3 lab hr/wk, 3 cr.
Studies the application of hydraulic, pneumatic and electronic circuits for automated control of industrial systems. Includes digital design, Boolean algebra, combinational logic and sequential logic. Lab exercises cover programming of industrial robots and programmable logic controllers. Covers SCADA equipment and use in an industrial environment. Begins MES and ERP overview and related software use. Develops the problem solving abilities utilizing SPC and quality control charts. Promotes and supports sustainable and green technologies. **Prerequisite:** MTH082; and PH121 (or concurrent enrollment); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **Sp, Offered as needed**
Emergency Medical Technology

EMT151 EMT, Part 1
4 class and 3 lab hr/wk, 5 cr.
Provides instruction at the level of Emergency Medical Technician, a vital link in the chain of the health care system. Includes all skills necessary for the individual to provide emergency medical care as outlined by scope of practice established by the Oregon Medical Board. Serves as the first of a two-part course in a series of courses making up a national and state EMS training program. Failure of this course will require retaking the full sequence of EMT courses.

Prerequisite: Completion of placement testing for writing skills at WR080 or higher, reading at RD090 or higher, and math at MTH020 or higher. Must be concurrently enrolled in BLS Health Care Providers CPR course. Must meet standards as set by the Oregon State EMS Office for license, which includes health, driving, immunization and criminal record check. F, W, Su, Offered as needed

EMT152 EMT, Part 2
4 class and 3 lab hr/wk, 5 cr.
Continues instruction at the level of Emergency Medical Technician, a vital link in the chain of the health care system. Includes all skills necessary for the individual to provide emergency medical care as outlined by scope of practice established by the Oregon Medical Board. Serves as the second in a series of courses making up a national and state EMS training program. Failure of this course will require retaking the full sequence of EMT-Basic courses.

Prerequisite: EMT151 with a grade of C or better. Must meet standards as set by the Oregon State EMS Office for license which includes health, immunizations, and criminal record check. W, Sp, Su, Offered as needed

EMT153 One Term Emergency Medical Technician
8 class and 6 lab hr/wk, 10 cr.
Provides instruction at the level of Emergency Medical Technician, a vital link in the chain of the health care system. Includes all skills necessary for the individual to provide emergency medical care as outlined by scope of practice established by the Oregon Medical Board. Serves as a course in a series of courses making up a national and state EMS training program. Failure of this course will require retaking the full sequence of EMT-Basic courses.

Prerequisite: Placement into WR080 (or higher), RD090 (or higher), and MTH020 (or higher). Not open to students with credit in EMT 151 and/or EMT 152. Must be concurrently enrolled in BLS Health Care Providers certification course. Must meet standards as set by the Oregon State EMS Office for certification, which also includes health, immunizations, and criminal record check. F, W, Sp, Su

EMT163 Advanced EMT, Part 1
3 class and 2 lab hr/wk, 4 cr.
Covers AEMT emergency medical procedures. Introduces the roles and responsibilities of the technician, emergency pharmacology, venous access and medication administration, electrocardiogram (ECG) monitoring and management of dysrhythmias, airway management and ventilation, and advanced airway techniques. Includes medical patient assessment and management; trauma assessment and management; and special considerations such as pediatrics, geriatric, and environmental emergencies. Emphasizes clinical decision-making. Covers procedures related to airway, oxygen, ventilation, shock, intravenous, intraosseous, and ECG monitoring, defibrillation, pharmacology and field protocols in the laboratory component. The clinical experience requires the student to observe patient assessment and evaluation in both an emergency department and an ambulance. Students successfully completing this course will be recommended to the National Registry of EMTs and the Oregon State EMS Office for the certification process. Failure of this course will require retaking the full AEMT sequence. Prerequisite: Placement into WR080 (or higher), RD090 (or higher), and MTH020 (or higher). Entry at these levels ensures that students will have an increased chance of passing the course, as well as certification exams. Current Oregon EMT license. Offered as needed

EMT164 Advanced EMT, Part 2
3 class and 2 lab hr/wk, 4 cr.
Covers AEMT emergency medical procedures. Introduces the roles and responsibilities of the technician, emergency pharmacology, venous access and medication administration, electrocardiogram (ECG) monitoring and management of dysrhythmias, airway management and ventilation, and advanced airway techniques. Includes medical patient assessment and management; trauma assessment and management; and special considerations such as pediatrics, geriatric, and environmental emergencies. Emphasizes clinical decision-making. Covers procedures related to airway, oxygen, ventilation, shock, intravenous, intraosseous, and ECG monitoring, defibrillation, pharmacology and field protocols in the laboratory component. The clinical experience requires the student to observe patient assessment and evaluation in an emergency department and an ambulance. Students successfully completing this course will be recommended to the National Registry of EMTs and the Oregon State EMS Office for the licensure process. Failure of this course will require retaking the full Oregon EMT-Intermediate sequence. Prerequisite: Placement into WR080 or higher, RD090 or higher, and MTH020 or higher. Entry at these levels ensures that students will have an increased chance of passing the course, as well as licensure exams. Current Oregon EMT license, letter of endorsement from medical advisor, verification of EMT skills, and 80% or better on pre-test. Offered as needed

EMT167A Oregon Emergency Medical Technician Intermediate, Part 1
4 class and 3 lab hr/wk, 5 cr.
Covers Oregon EMT-Intermediate emergency medical procedures. Introduces the roles and responsibilities of the technician, emergency pharmacology, venous access and medication administration, electrocardiogram (EKG) monitoring and management of dysrhythmias, airway management and ventilation, and advanced airway techniques. Includes medical patient assessment and management; trauma assessment and management; and special considerations such as pediatrics, geriatric, and environmental emergencies. Emphasizes clinical decision-making. Covers procedures related to airway, oxygen, ventilation, shock, intravenous, intraosseous, and ECG monitoring, defibrillation, pharmacology and field protocols in the laboratory component. The clinical experience requires the student to observe patient assessment and evaluation in either an emergency department or an urgent care clinic. Students successfully completing this course will be recommended to the Oregon State EMS Office for the licensure process. Failure of this course will require retaking the full Oregon EMT-Intermediate sequence. Prerequisite: Placement into WR080 or higher, RD090 or higher, and MTH020 or higher. Entry at these levels ensures that students will have an increased chance of passing the course, as well as licensure exams. Current Oregon EMT license, letter of endorsement from medical advisor, verification of EMT skills, and 80% or better on pre-test. Offered as needed
EMT167B Oregon Emergency Medical Technician Intermediate, Part 2
4 class and 3 lab hr/wk, 5 cr.
Covers Oregon EMT-Intermediate emergency medical procedures. Introduces the roles and responsibilities of the technician, emergency pharmacology, venous access and medication administration, electrocardiogram (ECG) monitoring and management of dysrhythmias, airway management and ventilation, and advanced airway techniques. Includes medical patient assessment and management; trauma assessment and management; and special considerations such as pediatrics, geriatric, and environmental emergencies. Emphasizes clinical decision-making. Covers procedures related to airway, oxygen, ventilation, shock, intravenous, intraoesosseous, and ECG monitoring, defibrillation, pharmacology and field protocols in the laboratory component. The clinical experience requires the student to observe patient assessment and evaluation in either an emergency department or an urgent care clinic. Students successfully completing this course will be recommended to the Oregon State EMS Office for the licensure process. Failure of this course will require retaking the full Oregon EMT-Intermediate sequence. Prerequisite: EMT167A with a grade of C or better. Offered as needed

EMT168 One Term Advanced Emergency Medical Technician
6 class and 4 lab hr/wk, 8 cr.
Covers AEMT emergency medical procedures. Introduces the roles and responsibilities of the technician, emergency pharmacology, venous access and medication administration, electrocardiogram (ECG) monitoring and management of dysrhythmias, airway management and ventilation, and advanced airway techniques. Includes medical patient assessment and management; trauma assessment and management; and special considerations such as pediatrics, geriatric, and environmental emergencies. Emphasizes clinical decision-making. Covers procedures related to airway, oxygen, ventilation, shock, intravenous, intraoesosseous, and ECG monitoring, defibrillation, pharmacology, and field protocols in the laboratory component. Required clinical experience to observe patient assessment and evaluation in an emergency department and an ambulance. Students successfully completing this course will be recommended to the National Registry of EMTs and the Oregon State EMS Office for the certification process. Failure of this course will require retaking the full AEMT sequence. Prerequisite: Recommendation by an EMS agency. Must have current Oregon EMT license. Placement into WR080 (or higher), RD090 (or higher), and MTH020 (or higher). Not open to students completing EMT163 or EMT164. W, Offered as needed

EMT169 Emergency Medical Technician Rescue
2 class and 3 lab hr/wk, 3 cr.
Presents technical information on various rescue situations. Covers tools and equipment, ropes and knots, trench rescue, shoring, warehouse searches, outdoor searches, rescue in situations involving elevation differences, package patients, water and ice rescues, and vehicle extrication. Offered as needed

EMT175 Introduction to Emergency Medical Services
3 class hr/wk, 3 cr.
Covers the role and responsibilities of the paramedic, emergency medical services systems, medical-legal considerations, major incident response, hazardous materials awareness, history and trends, organization, funding, and the role of ambulance and rescue services in medical care; leadership, personal and career development. Offered as needed

EMT176 Emergency Response Patient Transportation
1 class and 2 lab hr/wk, 2 cr.
Covers ambulance operations, laws, maintenance and safety, emergency response driving, and route planning. Offered as needed

EMT177 Emergency Response Communication and Documentation
2 class hr/wk, 2 cr.
Covers 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. F, W, Sp, Su

EMT280B-L Cooperative Work Experience
See CWE–Cooperative Work Experience

EMT296 Paramedic, Part 1
12 class and 6 lab hr/wk, 14 cr.
Offers first term of a three-term course, which includes EMT296, EMT297, EMT298, and EMT280H. Focuses on patient assessment; airway and ventilation; pathophysiology of shock; general pharmacology; and respiratory, cardiovascular, neurological, behavioral, and acute abdominal emergencies. Applies didactic knowledge to campus-based laboratory skills practice and clinical patient care in the hospital setting. Failure of this course will require retaking the full sequence of Paramedic courses (EMT296, EMT297, EMT298, and EMT280H). Prerequisite: Fourth term standing in the Emergency Medical Technology program. F, Sp

EMT297 Paramedic, Part 2
10 class and 12 lab hr/wk, 14 cr.
Offers second term of a three-term course, which includes EMT296, EMT297, EMT298, and EMT280H. Focuses on anaphylactic, toxicological, environmental, geriatric, pediatric, neonatal, and endocrine emergencies; infectious diseases; capnography; special patient populations; hematology; psychiatric care; crime scene presentation; genitourinary care; and trauma care. Applies didactic knowledge to campus-based laboratory skills practice and clinical patient care in the hospital setting. Failure of this course will require retaking the full sequence of Paramedic courses (EMT296, EMT297, EMT298 and EMT280H). Prerequisite: EMT296 with a grade of C or better. W, Su

EMT298 Paramedic, Part 3
1 class and 9 lab hr/wk, 4 cr.
Offers third term of a three-term course, which includes EMT296, EMT297, EMT298, and EMT280H. Focuses on review of Advanced Cardiac Life Support (ACLS), 12-Lead ECG interpretation, documentation, legal issues, practical skills and research and evidence-based medicine. Applies didactic knowledge to clinical patient care in the hospital setting. Failure of this course requires retaking the full sequence of Paramedic courses (EMT296, EMT297, EMT298, and EMT280H). Prerequisite: EMT297 with a grade of C or better. F, Sp
English

ENG100 Literature Appreciation
4 class hr/wk, 4 cr.
Introduction to literature, comprising appreciation and comprehension of notable works in short fiction, novels, drama, creative non-fiction, film, and poetry, with emphasis on understanding the relationship between form and content and on formulating criteria for artistic judgment. Explores connections between literature, our culture, ourselves, and the human condition. At least three genres will be covered in each course. Offered as needed

ENG104 Introduction to Fiction
4 class hr/wk, 4 cr.
Features critical analysis and appreciation of fiction through the reading of narratives originally written in English as well as works in translation. Employs a selection of genre, stylistic, or thematic approaches to content to introduce the short story, the novel, novella, and basic literary terminology and concepts. Also introduces literary criticism and the conventions of writing literary analysis. Prerequisite: Placement into WR115 (or higher), or completion of WR090 or WR115 (or higher); and placement into RD090; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

ENG105 Introduction to Dramatic Literature
4 class hr/wk, 4 cr.
Features critical analysis and appreciation of drama from the classical Greek to contemporary periods written by an international range of playwrights. Introduces concepts and types of dramatic literature, including comedy and tragedy, as well as the elements and conventions of drama as both a literary and performing art. Introduces literary criticism and the conventions of writing literary analysis. Prerequisite: Placement into WR115 (or higher), or completion of WR090 or WR115 (or higher); and placement into RD090; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

ENG106 Introduction to Poetry
4 class hr/wk, 4 cr.
Teaches students to enjoy, understand, analyze, and interpret Poetry. Introduces the breadth of poetry across periods, forms, and styles, both originally written in English and in translation. Introduces literary criticism and the conventions of writing literary analysis. Prerequisite: Placement into WR115 (or higher), or completion of WR090 or WR115 (or higher); and placement into RD090; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

ENG107 Introduction to World Literature: The Ancient World Through the Middle Ages
4 class hr/wk, 4 cr.
Introduces discussion and analysis of histories, stories, poems, and plays of the Western and non-Western world between 2000 B.C.E. and 1450 C.E. Explores the connection between literature and power and literature and social and cultural change. Prerequisite: Placement into WR115 (or higher), or completion of WR090 or WR115 (or higher); and placement into RD090; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F; CL

ENG108 Introduction to World Literature: The Renaissance Through the Romantic Revolt
1450-1850
4 class hr/wk, 4 cr.
Introduces discussion and analysis of literary works of the Western and non-Western world between 1450 and 1850. Explores the connection between literature and power and literature and social and cultural change. Prerequisite: Placement into WR115 (or higher), or completion of WR090 or WR115 (or higher); and placement into RD090; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W; CL

ENG109 Introduction to World Literature: 1850 to the Present
4 class hr/wk, 4 cr.
Introduces discussion and analysis of works of the Nineteenth, Twentieth, and Twenty-First Centuries from around the world. Explores the connection between literature and politics and literature and social change. Prerequisite: Placement into WR115 (or higher), or completion of WR090 or WR115 (or higher); and placement into RD090; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W; Sp; CL

ENG201 Introduction to Shakespeare
4 class hr/wk, 4 cr.
Surveys selected Shakespearean tragedies, comedies, histories, and selected poetry written in the later part of his career (1600-1616) emphasizing dramatic structure, characterization, imagery, and theme. Uses critical essays to explore these plays and poems and to provide background on the nature of the different genres of Shakespeare’s works. Includes readings from at least one example of each of these genres: comedy, tragedy, history, and sonnets, and covers a minimum of six plays. Prerequisite: Placement into WR121; WR115 or higher, with a grade of C or better; or consent of instructor. Sp

ENG204 Survey of English Literature: Beowulf to Milton
4 class hr/wk, 4 cr.
Surveys selected representative English literature from its beginnings in the Anglo-Saxon period through Milton (c. 1660). Situates literature as the product of specific historical contexts. Requires careful reading. Fosters thoughtful interpretation, analysis, and appreciation of literature. Emphasizes genre, structure, characterization, imagery, and theme. Uses critical essays to explore assigned texts and to examine issues of class, gender, race, nation, imperialism, government, and the “other” in these texts and in this time period. Prerequisite: Placement into WR121; or WR115 or higher, with a grade of C or better; or consent of instructor. Offered as needed; CL

ENG205 Survey of English Literature: Restoration to Romantics
4 class hr/wk, 4 cr.
Surveys selected representative readings of English literature from the mid-17th century to 1832. Situates literature as the product of specific historical contexts. Requires careful reading. Fosters thoughtful interpretation, analysis, and appreciation of literature. Emphasizes genre, structure, characterization, imagery, and theme. Uses critical essays to explore assigned texts and to examine issues of class, gender, race, nation, imperialism, government, and the “other” in these texts and in this time period. Prerequisite: Placement into WR121; or WR115 or higher, with a grade of C or better; or consent of instructor. Offered as needed; CL
ENG206 Survey of English Literature: Victorian to Postcolonial
4 class hr/wk, 4 cr.
Surveys selected, representative readings of English literature from 1832 through the twentieth century, including works from nations colonized by Britain. Situates literature as the product of specific historical contexts. Requires careful reading. Fosters thoughtful interpretation, analysis, and appreciation of literature. Emphasizes genre, structure, characterization, imagery, and theme. Uses critical essays to explore assigned texts and to examine issues of class, gender, race, nation, imperialism, government, and the “other” in these texts and in this time period. Prerequisite: Placement into WR121; or WR115 with a grade of C or better; or consent of instructor. Offered as needed; CL

ENG216 Comic Books as Literature
4 class hr/wk, 4 cr.
Explores the graphic novel/comic book as a literary art form by examining and analyzing literary techniques, cultural context, history, and the development of the genre. Encourages students to use contemporary and traditional forms of literary analysis and critical thinking to better understand the text and its influence on pop culture. Prerequisite: Placement into WR121; or WR115 or higher, with a grade of C or better; or consent of instructor. Offered as needed

ENG220 Introduction to Literature for Children and Young Adults
4 class hr/wk, 4 cr.
Introduces themes and conventions of literature written for children and adolescents from at least three different genres, such as picture books, folktales, fairytales, fables, comics, short stories, novels, poetry, film, and drama. Examines the gendered, political, cultural, and ideological dimensions of literature written for children. Engages discussion as to influences that determine what's appropriate and inappropriate for children and youth to read. Course may be organized historically, chronologically, thematically, culturally, or ideologically. Prerequisite: Placement into WR121; or WR115 or higher, with a grade of C or better; or consent of instructor. Offered as needed

ENG245 Diverse Voices in American Literature
4 class hr/wk, 4 cr.
Surveys selected representative readings from underrepresented populations in American Literature. Examines issues of class, race, gender, ethnicity, physical disabilities, mental illness, and sexual identity and orientation through poetry, fiction, memoir, comics, and film. Prerequisite: Placement into WR121; or WR115 with a grade of C or better; or consent of instructor. Offered as needed; CL

ENG250 Introduction to Mythology and Folklore
4 class hr/wk, 4 cr.
Introduces folklore and some of its various forms: myths, legends, and folktales. Explores the nature and functions of folklore through examples from the classical world, from the native cultures of the Americas, and from at least one other area of the world, such as the Near East, the Orient, the Pacific, Africa, Australia, the Celtic World or Northern Europe. Also examines folklore in contemporary life. Prerequisite: Placement into WR121; or completion of WR115 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

ENG253 Survey of American Literature
4 class hr/wk, 4 cr.
Introduces the literature of the land now called the United States from before European contact through 1865. Surveys literary traditions and several genres from a variety of cultures, including Native American, African American, and European American. Emphasizes discussion of literary works as products of history as well as culture and explores the dynamics of the cultural encounters they reveal as well as the complexity of the many voices and perspectives that make up early American literature. Prerequisite: Placement into WR121; or WR115 or higher, with a grade of C or better; or consent of instructor. Offered as needed

ENG254 Survey of American Literature
4 class hr/wk, 4 cr.
Introduces students to the literature of the United States from 1865-present. Surveys literary traditions, genres, and representative writers from a variety of experiences, including Hispanic American, Native American, African American, Asian American and European American. Emphasizes literary works as products of history and culture, exploring the important developments in American culture through literature. Prerequisite: Placement into WR121; or WR115 or higher, with a grade of C or better; or consent of instructor. Offered as needed; CL

ENG259 Introduction to Women Writers
4 class hr/wk, 4 cr.
Focuses on the achievements and perspectives of women writers through critical analysis of their literary works and strategies. Introduces critical theories for analyzing and discussing literature written by women. Uses a chronological, thematic or stylistic approach. Includes a representative sampling from several of the following: poetry, short story, novel, drama, autobiography, letters, journals, biography, speech, essay, and lyrics. Prerequisite: Placement into WR121; or completion of WR115 with a grade of C or better; or consent of instructor. Offered as needed

ENG261 Introduction to Science Fiction
4 class hr/wk, 4 cr.
Analyzes science fiction through the reading and discussion of representative works that explore the history and typology of this literary genre. May take a chronological, thematic, or stylistic approach. Prerequisite: Placement into WR121; or completion of WR115 with a grade of C or better; or consent of instructor. Offered as needed

ENG269 Environmental Literature
4 class hr/wk, 4 cr.
Introduces students to environmental literature, which addresses the relationship between human beings and the natural world, as well as the place of human beings in the natural world. Includes a focus on not only human interaction with pristine wilderness, but also with cityscapes and toxic environments. Uses chronological, regional, or thematic approaches to current issues in the field. Introduces ecocriticism as an interpretive tool that includes attention to issues of environmental justice. Explores the link between environmental problems and economic and social justices. Uses critical reading, field trips, discussion, reflective writing, and critical writing in order to explore how our understanding of the natural environment has been socially constructed and how these constructions both benefit and burden particular groups. Explores the relationship between literature and social action. Prerequisite: Placement into WR121; or completion of WR115 or higher, with a grade of C or better; or consent of instructor. Offered as needed; CL
Entrepreneurship
See also BA—Business Administration

ENT145 Introduction to Entrepreneurship
3 class hr/wk, 3 cr.
Evaluates the business skills and commitment necessary to successfully operate an entrepreneurial venture, and reviews the challenges and rewards of entrepreneurship. Examines the role of entrepreneurial businesses in the United States and the impact on the national and global economy. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

ENT150A Planning Your Business 1
3 class hr/wk, 3 cr.
Begin the process of researching, developing, and writing a detailed business plan for a specific business. Conducts a feasibility analysis and defines the business in terms of mission, product, service, and structure. First of a three-course sequence. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

ENT150B Planning Your Business 2
3 class hr/wk, 3 cr.
Continues the research, development, and documentation of the detailed business plan started in ENT150A. Focuses on elements of marketing, including industry and customer analysis, marketing strategy, and operational plan. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of ENT150A; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better) F, W, Sp, Su

ENT150C Planning Your Business 3
3 class hr/wk, 3 cr.
Conclude the research, development, and documentation of the business plan. Focuses on financial management, including revenue, expenses, inventory, equity and debt, and financing through the use of integrated spreadsheets. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of ENT150B; and basic mastery of Excel; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better) F, W, Sp, Su

Emergency Services

ES115 Crisis Intervention
3 class hr/wk, 3 cr.
Provides a theoretical background for understanding crisis intervention and offers an arena to experience a variety of crisis management styles. Assists the emergency service worker or health care provider to evaluate their emotional reactions and methods of coping in order to stay healthy on the job. F, Sp. Offered as needed

ES172 Introduction to Emergency Services
4 class hr/wk, 4 cr.
Explores the philosophy and history of emergency services. Presents the history of loss of life and property in fire, major medical emergencies, and natural disasters. Covers the responsibility of emergency services in a community, the roles and responsibilities of a paramedic and firefighter, an overview of the ICS system, and the organization and function of emergency services agencies and allied organizations, education and certification. Includes sources of professional literature, awareness and identification of hazardous materials, emergency services apparatus, fire behavior, detection and protection systems, cultural diversity, harassment in the workplace, survey of professional career opportunities and requirements, and development of a resume. Offered as needed

Field Experiences
See also CWE—Cooperative Work Experience

FE120 Career Jump Start
3 class hr/wk, 3 cr.
Introduces the realities of the world of work for undecided students and students in any chosen academic program. Emphasizes gaining an understanding of careers and internships; and creating an effective educational and career plan through graduation, making the most of college education to prepare for future employment. F, W, Sp

FE205B Resumes and Job Search Correspondence
1 class hr/wk, 1 cr.
Covers the process in creating written materials utilized in the job search process and career management. Includes composition and evaluation of written correspondence, including applications, resumes, and other employment-related communications. F, W, Sp

FE205C Interviewing for Success
1 class hr/wk, 1 cr.
Focuses on how to prepare and interview for a desired job. Covers follow-up techniques. F, W, Sp

FE280B-L Cooperative Work Experience
See CWE—Cooperative Work Experience

Filmmaking

FLM230 Audio Production and Sound Design
2 class and 4 lab hr/wk, 4 cr.
Introduces the concepts of controlled sound recording, production, and design including Foley effects, and field recording. Audio editing and processing techniques covered may include equalization, bussing, compression, digital signal processing (DSP), general sound workflow, automation, mixing, and mastering. Prerequisite: Computer literacy including familiarity with one or more motion or graphic or film arts software package (such as Adobe Premier Pro or Photoshop). Offered as needed

FLM265 Documentary Filmmaking
2 class and 2 lab hr/wk, 3 cr.
Introduces digital filmmaking hardware and editing software with a focus on non-fiction production, including news packages and short documentaries. Emphasizes camera technique, audio recording skills, project management, and effective storytelling. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; and demonstrated ability to work with computers; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

FLM266 Narrative Filmmaking
2 class and 2 lab hr/wk, 3 cr.
Builds on the technical skills acquired in FLM265 Documentary Filmmaking, but focuses production work on narrative styles with emphasis on storyboarding and preparation, directing actors, and effective editing techniques. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of FLM265; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

FLM267 Advanced Filmmaking
2 class and 2 lab hr/wk, 3 cr.
Expands on the technical skills acquired in the first two classes emphasizing integrated graphics, special effects, composting and complex audio mixes. Applies these skills to documentary projects, narrative projects, or both. Includes a studio production component. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of FLM266; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed
FLM268 Independent Filmmaking
2 class and 2 lab hr/wk, 3 cr.
Allows students with skills acquired either through personal experience or in previous course work to work on an independent film. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of FLM265 or FLM266

**Film Arts**

FA255 Introduction to Film
3 class and 2 lab/hr/wk, 4 cr.
Features critical analysis and appreciation of cinema through the viewing and study of narrative film, while exploring other film forms. Introduces the historical, cultural, generic, and stylistic variety of cinematic art within its social context. Also introduces basic cinematic terminology and concepts, film criticism, and the conventions of writing film analysis. Includes a weekly film screening lab that accompanies the lecture. This course may be repeated for a maximum of 8 credits total. **Prerequisite:** Placement into WR115; or completion of WR090 with a grade of C or better; or consent of instructor. F, Sp, Su

FA256 Innovations in Cinema
3 class and 2 lab/hr/wk, 4 cr.
Features critical analysis and appreciation of cinema through the viewing and study of films that broke with tradition. Highlights the films of one artist, group style, or national cinema movement seen as an innovation in film history. Explores individual films as the work of an author or authors, especially within the context of viewing the films as a body of work embodying a unique world view and artistic practice. Also introduces basic cinematic terminology and concepts, film criticism, and the conventions of writing film analysis. Includes a weekly film screening lab that accompanies the lecture. This course may be repeated for a maximum of 8 credits total. **Prerequisite:** Placement into WR115; or completion of WR090 with a grade of C or better; or consent of instructor. W

FA257 Film Genres
3 class and 2 lab/hr/wk, 4 cr.
Features critical analysis and appreciation of cinema through the viewing and study of films within the context of a specific film genre or thematic topic. Emphasizes analysis of formal and stylistic similarities and differences of significant film traditions. Explores cinema’s relationship to society. Introduces basic cinematic terminology and concepts, film criticism, and the conventions of writing film analysis. Includes a weekly film screening lab that accompanies the lecture. This course may be repeated for a maximum of 8 credits total. **Prerequisite:** Placement into WR115; or completion of WR090 with a grade of C or better; or consent of instructor. F, Sp, Su

**French**

FR100 French Life and Culture
4 class hr/wk, 4 cr.
Offers an introduction to French history, politics, arts and culture, and includes briefings at Parisian museums, ministries, or media centers. Basic French language is included. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. **Offered as needed**

FR101, 102, 103 First Year French, Terms 1, 2, 3
4 class hr/wk, 4 cr. each
Introduces the French language (including listening, speaking, reading and writing) and Francophone culture (including geography, customs, daily life, heritage and literature), facilitated by the study of vocabulary, grammar, short readings and guided conversation. Instructor and students use French as the primary language of the class. **Recommended:** FR101: None; FR102: FR101, or one year of high school French (All recommended courses must be completed with a grade of C or better); FR103: FR102, or two years of high school French. (All recommended courses must be completed with a grade of C or better) **Prerequisite:** Placement into WR115 or higher; or WR090 (or concurrent enrollment), or WR115 or higher; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better) FR101: F; FR102: W; FR103: Sp

FR201, 202, 203 Second Year French, Terms 1, 2, 3
4 class hr/wk, 4 cr. each
Provides extensive practice in all four language skills (reading, writing, speaking, and listening). Includes cultural and literary readings and an in-depth review and expansion of basic French grammar and vocabulary, as well as a broadening of the student's understanding of Francophone culture. All classroom interaction (both by instructor and students) takes place in French. **Recommended:** FR201: FR103, or three years of high school French (All recommended courses must be completed with a grade of C or better); FR202: FR201, or four years of high school French; FR203: FR202, or four years of high school French. (All recommended courses must be completed with a grade of C or better.) **Prerequisite:** Placement into WR115 or higher; or WR090 (or concurrent enrollment), or WR115 or higher; or consent of instructor. (All prerequisite courses must be completed in a grade of C or better.) FR201: F; FR202: W; FR203: Sp

**Fire Protection Technology**

FRP150 Introduction to Fire Protection
3 class hr/wk, 3 cr.
Introduces the philosophy and history of fire protection. Covers the history of loss of life and property in fire; responsibilities of fire departments in a community; organization and function of fire protection agencies and allied organizations; sources of professional literature; survey of professional career opportunities and requirements; and development of a resume. **Offered as needed**

FRP151 Fire Incident Related Experience 1
9 lab/hr/wk, 3 cr.
Provides an introductory orientation to Fire Incident Related Experience that fulfills the requirements of OR-OSHA and the Department of Public Safety Standards and Training for Entry-Level Firefighter. These standards must be met prior to an individual responding to emergency incidents. **Prerequisite:** Admission restricted to students chosen through an application process. Consent of instructor required. **Offered as needed**

FRP152 Fire Incident Related Experience 2
9 lab/hr/wk, 3 cr.
Provides continuing information about large-diameter hose uses, attack hose procedures, ICS and passport information, firefighter responsibilities, and ISFI SCBA procedures. Includes SCBA use under extreme working loads, refilling SCBA bottles, the use of cascade systems, live-fire attack practices, salvage operations, overhaul practices, fire cause investigation, the firefighter’s responsibility, district familiarization, map book use, radio procedures, driving laws and practices, power tool operation and maintenance, ventilation principles, and vertical ventilation. Includes a practicum for NFPA Fire Apparatus Driver/Operator certification and driving portions of NFPA Apparatus Equipped with Fire Pump. **Prerequisite:** FRP151 with a grade of C or better; or consent of instructor. **Offered as needed**

FRP153 Fire Incident Related Experience 3
9 lab/hr/wk, 3 cr.
Introduces new skills and a practicum to function safely and effectively as an integral member of a firefighting team and successfully pass testing for Firefighter 1. Includes a practicum for NFPA Fire Apparatus Driver/Operator and NFPA Apparatus Equipped with Fire Pump certification. Students completing the course will take written and task performance tests for NFPA Fire Apparatus Driver/Operator. **Prerequisite:** FRP152 with a grade of C or better; or consent of instructor. **Offered as needed**
FRP154 Water Supply Operations
3 class hr/wk, 3 cr.
Covers the scope of water supply operations in the fire service. Includes pre-planning operations, water supply requirements, source options, delivery systems and options, and hydraulic calculations. Designed to meet the competencies as set forth by DPSST Firefighter II and NFPA Apparatus Equipped with Fire Pump.
Prerequisite: FRP152 and MTH070, each with a grade of C or better; or consent of instructor. Offered as needed

FRP157 Hazardous Materials Operations
3 class hr/wk, 3 cr.
Provides knowledge and skills necessary to safely respond to and manage the defensive operations involved in a chemical emergency. Also provides skills to operate in offensive fashion for some common flammables (gasoline, propane, etc.). Corequisite: FRP150. Offered as needed

FRP158 Fire Pump Construction and Operation
2 class and 2 lab hr/wk, 3 cr.
Covers the theory of pump operation, types and features of various pumps, practical operation of fire pumps and accessories. Includes drafting, hydrant and tanker operations, and rule-of-thumb fire ground hydraulic calculations. Prerequisite: FRP151 and FRP152, each with a grade of C or better; or consent of instructor. Offered as needed

FRP159 Fire Behavior and Combustion
3 class hr/wk, 3 cr.
Explores the theories and fundamentals of how and why fires start, spread, and are controlled. Offered as needed

FRP160 Incident Safety Officer
1 class hr/wk, 1 cr.
Covers NFPA 1521 and OSHA regulations regarding utilization of an on-scene safety officer. Prepares officers and firefighters to deploy to implement those plans. Prerequisite: FRP150 or FR172, either with a grade of C or better; or consent of instructor. Offered as needed

FRP161 Fire Management Practices
1 class hr/wk, 1 cr.
Covers the concept of fire management including the role of departments and districts in local government, funding and selection methods for providing fire protection. Offered as needed

FRP162 Managing Fire Personnel
1 class hr/wk, 1 cr.
Introduces fire department human resource management techniques. Includes hiring, supervision and performance review procedures. Offered as needed

FRP163 Planning Fire Protection
1 class hr/wk, 1 cr.
Covers the tools needed to plan a community's fire protection system. Includes analyzing a community's fire risk, establishing types of protection, and developing implementation and evaluation plans. Offered as needed

FRP164 Fire Department Budgets
1 class hr/wk, 1 cr.
Covers the preparation, adoption and filing of public law, and management of a fire district budget. Includes district budget analysis methods, use of levies, budget management and appropriation of expenditures. Offered as needed

FRP165 Public Relations, Public Information, and Public Education
1 class hr/wk, 1 cr.
Introduces the role of public relations, public information and public education as tools to provide and enhance public safety awareness. Offered as needed

FRP166 Firefighter's Law
1 class hr/wk, 1 cr.
Covers the legal responsibilities and rights of firefighters in driving, inspection, emergency operations, communication and fire prevention. Includes a firefighter's rights as a civil service employee. Offered as needed

FRP167 Fire Department Leadership
3 class hr/wk, 3 cr.
Emphasizes the role of fire service leaders in managing the daily operations of a fire company. Covers leadership concepts such as types of supervisors, including attitudes, cooperation, individual differences, motivation, communications and counseling as part of the management cycle. Prerequisite: FRP150 or ES172, either with a grade of C or better; or consent of instructor. Offered as needed

FRP168 Fire Fighting Tactics and Strategy
3 class hr/wk, 3 cr.
Covers the development of systematic action plans for emergency situations. Includes recognizing and prioritizing emergency scene needs and developing related strategies, tactics and contingencies. Describes how resources should be deployed to implement those plans. Offered as needed

FRP169 Fire Protection Systems and Extinguishers
3 class hr/wk, 3 cr.
Covers types and uses of portable fire extinguishers, as well as care, inspection, and recharging procedures. Includes various types of sprinklers and special extinguishing systems, standpipe systems, and systems designed to detect and report fires, and fire pumps. Offered as needed

FRP172 International Fire Codes
3 class hr/wk, 3 cr.
Interprets the International Building Codes, International Fire Code, State Fire Marshal Fire Safety Regulations and related Oregon revised statutes, N.F.P.A. and other codes relating to fire prevention and life safety. Offered as needed

FRP173 Law for Emergency Services
3 class hr/wk, 3 cr.
Covers emergency services' legal responsibilities related to driving, inspections, emergency operations, communications, fire prevention, and provision of ambulance services. Includes employee and member's rights, duties and liabilities. Provides preparation for presentations in court. Offered as needed

FRP174 Fire Investigation
3 class and 2 lab hr/wk, 4 cr.
Emphasizes the importance of determining the cause of fire. Studies the burning characteristics of combustibles and the effects of fire on materials, interpreting burn patterns and isolating the area and point of origin, identifying incendiary indications, sources of ignition and materials ignited and preservation of fire scene and evidence. Prerequisite: FRP150 with a grade of C or better; or consent of instructor. Offered as needed

FRP175 Wildland Urban Interface Engine Boss
3 class hr/wk, 3 cr.
Studies causes, standard firefighting orders, urban interface problems, fire suppression methods, fireground management and structure triage. Designed to meet some of the competencies as set forth by Department of Public Safety Standards and Training for Wildland Interface Engine Boss. Prerequisite: FRP151, FRP152, and FRP153; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

FRP256 Emergency Services Rescue Practices
2 class and 4 lab hr/wk, 4 cr.
Presents technical information on various emergency services rescue situations. Covers tools and personal protective equipment, ropes and knots, trench rescue, confined space rescue, water rescue, building searches, outdoor searches, rescue in situations involving elevation differences, package patients, and vehicle extrication. Offered as needed

FRP257 Hazardous Materials for Inspectors
3 class hr/wk, 3 cr.
Covers how to handle inspections involving hazardous materials. Covers the requirements for handling, storing and reporting on various hazardous materials. Prerequisite: Consent of instructor. Offered as needed
FRP259 Major Emergency Strategy and Tactics
3 class hr/wk, 3 cr.
Covers major emergencies and applies principles relating to incident priorities, resource management, and tactical operations to make judgments about the management of major emergencies.
Prerequisite: FRP150, FRP151, FRP152, FRP153, and FRP170; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.)
Offered as needed

FRP260 Fundamentals of Fire Prevention
3 class hr/wk, 3 cr.
Covers the history and philosophy of fire protection through review of life and property loss statistics, case studies of fire protection agencies, current and future fire protection problems, and fire prevention laws and regulations. Develops an awareness of, and positive attitude toward, fire prevention as a method of accomplishing the fire department mission. Explores issues of difference, power, and responsibility in the workplace as it relates to early fire prevention efforts and workplace safety. Offered as needed

FRP261 Fire Incident Related Experience 4
9 lab hr/wk, 3 cr.
Introduces additional skills and provides a practicum to function safely and effectively as an integral member of a firefighting team and successfully pass testing for NFPA Firefighter I. Includes a practicum NFPA Fire Apparatus Driver/Operator and NFPA Apparatus Equipped with Fire Pump certifications. Students completing the course will take written and task performance tests for NFPA Firefighter I and NFPA Fire Apparatus Driver/Operator. Prerequisite: FRP153 with a grade of C or better; or consent of instructor. Offered as needed

FRP261H Fire Incident Related Experience 4: Honors
9 lab hr/wk, 3 cr.
Introduces additional skills and provides a practicum to function safely and effectively as an integral member of a firefighting team and successfully pass testing for NFPA Firefighter I. Includes a practicum NFPA Fire Apparatus Driver/Operator and NFPA Apparatus Equipped with Fire Pump certifications. Students completing the course will take written and task performance tests for NFPA Firefighter I and NFPA Fire Apparatus Driver/Operator. Prerequisite: FRP153 with a grade of C or better; or consent of instructor. Offered as needed

FRP262 Fire Incident Related Experience 5
9 lab hr/wk, 3 cr.
Introduces new skills and provides a practicum for NFPA Firefighter II, NFPA Fire Apparatus Driver/Operator and NFPA Apparatus Equipped with Fire Pump certifications. Assists with entering the job market and in becoming more successful in competitive fire service entry processes. Prerequisite: FRP261 with a grade of C or better; or consent of instructor.

FRP262H Fire Incident Related Experience 5: Honors
9 lab hr/wk, 3 cr.
Introduces new skills and provides a practicum for NFPA Firefighter II, NFPA Fire Apparatus Driver/Operator, and NFPA Apparatus Equipped with Fire Pump certifications. Assists with entering the job market and in becoming more successful in competitive fire service entry processes. Provides a practicum for leadership, supervisory, and management skills. Prerequisite: FRP261 with a grade of C or better; or consent of instructor. Offered as needed

FRP263 Fire Incident Related Experience 6
9 lab hr/wk, 3 cr.
Offers additional skills and provides a practicum for NFPA Firefighter II, NFPA Fire Apparatus Driver/Operator, and NFPA Apparatus Equipped with Fire Pump certifications. Prepares students for entering the job market and assists them in becoming more successful in competitive fire service entry processes. Introduces contemporary issues regarding the furnishing of emergency services. Students completing the course will take written and task performance tests for NFPA Firefighter II. Prerequisite: FRP262 with a grade of C or better; or consent of instructor. Offered as needed

FRP263H Fire Incident Related Experience 6: Honors
9 lab hr/wk, 3 cr.
Offers additional skills and provides a practicum for NFPA Firefighter II, NFPA Fire Apparatus Driver/Operator, and NFPA Apparatus Equipped with Fire Pump certifications. Prepares students for entering the job market and assists them in becoming more successful in competitive fire service entry processes. Introduces contemporary issues regarding the furnishing of emergency services. Students completing the course will take written and task performance tests for NFPA Firefighter II. Prerequisite: FRP262 with a grade of C or better; or consent of instructor. Offered as needed

FRP266 Building Construction for Fire Suppression
3 class hr/wk, 3 cr.
Focuses on fire problems inherent in structural elements of buildings. Includes inspection of various building types as a basis for applying effective extinguishment practices with adequate safeguards for personnel. Offered as needed

FRP272 International Fire Codes 2
3 class hr/wk, 3 cr.
Studies the International Fire Code, State Fire Marshal Fire Safety Regulations and related Oregon revised statutes, N.F.P.A., and other codes relating to fire prevention and life safety. Offered as needed

FRP277 NFPA Fire Instructor 1
3 class hr/wk, 3 cr.
Provides training to instructor candidates from multi-discipline activities found within Public Safety (fire, law enforcement, wildland, emergency medical services, etc.). Prepares the program participants for planning instruction, using a variety of instructional methods, teaching diverse learners, and evaluating course outcomes. Includes guidelines for addressing the critical issues of safety and the legal issues of training, and provides opportunities for participants to take part in application activities. This course meets the competency standards established by the National Fire Protection Association (NFPA) 1041 Standard for Fire Service Instructor Professional Qualifications, Instructor I. Offered as needed

FRP278 NFPA Fire Instructor 2
3 class hr/wk, 3 cr.
Provides training to instructor candidates from multi-discipline activities found within Public Safety (fire, law enforcement, wildland, emergency medical services, etc.). Uses an intensive instructional methodology program to prepare the participant for planning and developing all aspects of course curriculum. Includes needs analysis, task analysis, course goals and objectives, lesson plan development, instructional support materials and evaluation instruments. This course meets the competency standards established by the National Fire Protection Association (NFPA) 1041 Standard for Fire Service Instructor Professional Qualifications, Instructor II. Offered as needed
FRP280B-L Cooperative Work Experience
See CWE—Cooperative Work Experience.

FRP281 Fire Prevention Inspection
3 class hr/wk, 3 cr.
Covers methods of contemporary fire prevention inspection practices. Includes preparation, pre-approach information, written inspection notices, relations with owners and occupants, and compliances. Prerequisite: FRP172, FRP260, and FRP266; or consent of instructor. (All prerequisite courses must be passed with a grade of C or better.) Offered as needed

FRP282 Juvenile Fire-Setters Intervention
3 class hr/wk, 3 cr.
Provides basic information regarding the purpose and scope of a juvenile fire setter intervention program and how it should be structured; legal aspects of dealing with juveniles; child development; the continuum of juvenile fire setting; effective communication, interviewing, and questioning techniques; screening juvenile fire setters; and education and referral intervention processes. Offered as needed

FRP284 Public Information for the Fire Service
3 class hr/wk, 3 cr.
Provides students with the ability to identify public and proprietary information to form media releases and develop and maintain positive relations with media representatives. Prerequisite: FRP173 and FRP174, each with a grade of C or better; or consent of instructor. Offered as needed

FRP286 Advanced Detection and Protection Systems
3 class hr/wk, 3 cr.
Provides training in the design of fire protection systems and the evaluation of existing systems with regard to fire codes, building codes, and National Fire Protection Standards. Prerequisite: FRP171 with a grade of C or better; or consent of instructor. Offered as needed

FRP288 Fire Prevention Education Programs
3 class hr/wk, 3 cr.
Uses fire data to analyze the prevention needs in a community and to design a public fire education program directed to preventing or mitigating certain fires in that community. Offered as needed

First Year Experience
See also CG—Counseling and Guidance

FYE105 Creating College Success
2 class hr/wk, 2 cr.
Focuses on strategies for achieving success in college and in life. Covers campus resources, learning preferences, personal responsibility, self-motivation, and self-management. Recommended for all first year students. Prerequisite: Placement into RD085 or higher, and WR080 or higher; or RD085 or higher; and WR080 or higher; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

General Engineering
See also EGR—Engineering

GE101 Engineering Orientation
2 class and 2 lab hr/wk, 3 cr.
Introduces the engineering profession and engineering problem-solving. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH111 (or higher); or consent of instructor. Offered as needed

GE102 Engineering Computations
2 class and 2 lab hr/wk, 3 cr.
Acquaints engineering students with the use and operation of the microcomputer, using a computer algebra system. Covers the code and programs that will be developed and used in the solution of typical engineering problems. Emphasizes structured programming techniques. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH111 (or higher); or MTH111, MTH112, or MTH251 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

GE103 Engineering Computations
2 class and 2 lab hr/wk, 3 cr.
Develops a systematic approach to engineering problem solving using computers. Includes applications in computer analysis, graphing and database operations using spreadsheet software. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of GE101; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better. Sp

Geography

GEG100 Exploring Geography
2 class hr/wk, 2 cr.
Introduces the discipline and tools of geography, including careers in geography, what geographers study, how they think, and how knowledge of geography is helpful in any career field. Also examines basic geographic concepts and themes. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

GEG105 Physical Geography
4 class hr/wk, 4 cr.
Focuses on the physical subsystems of the earth (atmosphere, biosphere, hydrosphere, and lithosphere), with emphasis on human-environment relations. Includes basic map skills, latitude/longitude, weather, climate, biogeography, volcanism, erosion, and desert landscapes. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

GEG106 Cultural Geography
4 class hr/wk, 4 cr.
Introduces the cultural elements of geography, including the study of human population, migration, language, religion, cultural landscapes, and geopolitics. Special emphasis is placed on emphasizing the unequal distribution of power in the U.S. with regard to religion, ethnicity, and language. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, CL

GEG107 Development, Resources, and Sustainability
4 class hr/wk, 4 cr.
Introduces economic aspects of cultural geography worldwide, including the study of development, agriculture, industry, services, settlement, urban landscapes, and natural resource issues. Special emphasis is placed on the unequal distribution of power in the U.S. with regard to employment, income, settlement patterns, urban land use, and natural resource management. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. W, Sp; CL
GEG140 Map Reading and Interpretation
4 class hr/wk, 4 cr.
Introduces basic concepts in reading, interpreting, and analyzing diverse social, cultural, and physical information from a variety of maps. Topics include map projections, map misuse, propaganda maps, grid systems, map scale, route planning, Global Positioning System (GPS), Geographic Information System (GIS), contour reading, satellite imagery, and computer-based mapping. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

GEG190 Geography of Natural Hazards
4 class hr/wk, 4 cr.
Studies the causes, characteristics, and geographic distribution of natural hazards, as well as societal responses to natural hazards affecting the Pacific Northwest, including earthquakes, tsunamis, volcanoes, debris flows, landslides, floods, wildfires, and drought. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

GEG201 World Regional Geography: The Developed World
4 class hr/wk, 4 cr.
Introduces the physical and cultural geography of the developed world (Europe, Russia, Japan, North America, and Australia). Emphasizes major geographic themes and concepts, including population change, natural resource use, environmental concerns, economic development, geopolitical conflicts, and cultural perceptions. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, Sp

GEG202 World Regional Geography: The Developing World
4 class hr/wk, 4 cr.
Introduces the physical and cultural geography of the developing world (Middle East, Sub-Saharan Africa, Latin America, and South, East, and Southeast Asia). Emphasizes major geographic themes and concepts, including population change, natural resource use, environmental concerns, economic development, geopolitical conflicts, and cultural perceptions. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. W, Su

GEG206 Geography of Oregon
4 class hr/wk, 4 cr.
Examines the geography of Oregon, including its settlement by Europeans, various geographic regions, diverse physical environments, important natural resources, and varied population and economy. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

GEG207 Geography of US and Canada
4 class hr/wk, 4 cr.
Examines the natural and cultural environments of the U.S. and Canada, including climate, vegetation, landform regions, natural resource issues, population and settlement patterns. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

GEO142 Geology of Pacific Northwest Volcanoes, Mountains, and Earthquakes
3 class and 3 lab hr/wk, 4 cr.
Studies plate tectonics, volcanoes, earthquakes, tsunamis, mountain-building processes, and geologic hazards, with emphasis on the Pacific Northwest. Includes plate tectonic theory, types and effects of volcanism and other geologic activity on humans, seismic waves and faults, accreted terranes, geologic maps, and Oregon's geomorphic provinces. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F

GEO143 Geology of Pacific Northwest Rocks and Minerals
3 class and 3 lab hr/wk, 4 cr.
Focuses on the description and identification of the principal rock-forming and economically valuable minerals, and the most important igneous, sedimentary, and metamorphic rocks of the Pacific Northwest. Covers natural processes that form rocks and minerals; relationships of rock types to environments of formation, including plate tectonic settings; classification and laboratory identification of minerals and rocks; important uses of minerals and rocks in society; the rock cycle; and the geologic time scale. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

GEO201 Geology: Rocks and Minerals
3 class and 3 lab hr/wk, 4 cr.
Presents systematic study of the nature and origin of common rocks and minerals with identification techniques applied in laboratory and field trip activities. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F

GEO202 Geology: Surface and Environmental Geology
3 class and 3 lab hr/wk, 4 cr.
Offers a descriptive survey of geologic surface processes including: rivers, coasts, mass movement, groundwater, deserts, and glaciers, and the interaction of climate and climate change on these systems. Includes topographic map interpretation and field activities. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. W

GEO203 Geology: Evolution of the Earth
3 class and 3 lab hr/wk, 4 cr.
Studies earth history, geologic time, and evolution of life on earth. Includes study in plate tectonics, earthquakes, and structural geology. Includes field and laboratory studies of paleontology. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Sp
General Science

GS104 General Science: Physics
3 class and 3 lab hr/wk, 4 cr.
Covers an integrated study of the force, motion, heat, and light phenomena that we observe in the physical world. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

GS105 General Science: Chemistry
3 class and 3 lab hr/wk, 4 cr.
Offers a broad, non-quantitative, and descriptive survey of chemical principles relevant to everyday life. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

GS106 General Science: Earth Science
3 class and 3 lab hr/wk, 4 cr.
Introduces various branches of the earth sciences. Includes basic terminology, fundamental processes and respective interrelations. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

GS107 General Science: Astronomy
3 class and 3 lab hr/wk, 4 cr.
Surveys the physical properties of planets, stars, and galaxies. Examines the size of the universe and the objects within. Also examines the process astronomers use to gather data and form models. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH070 (or higher), or MTH070 and MTH095 (or higher); or consent of instructor. All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

GS108 General Science: Oceanography
3 class and 3 lab hr/wk, 4 cr.
Surveys the four classic disciplines of the ocean sciences: geological oceanography, chemical oceanography, physical oceanography, and biological oceanography. Focuses on the basic principles of the ocean sciences and stress the interdisciplinary nature of oceanography. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

GS120 Rudiments of Meteorology
3 class hr/wk, 3 cr.
Describes the treatment of contents of the atmosphere, cloud and precipitation types, weather instruments, thunderstorms, cyclones, hurricanes, air masses, fronts and weather forecasting. Offered as needed

GS141 General Science: Earth Systems Science
3 class and 3 lab hr/wk, 4 cr.
Explores the human population and human technology and their impact on our world. Presents how natural corrective processes are not keeping up with the pace of change and considers the human system works, the consequences of human actions, and how we can use our knowledge to protect our world. Evaluates appropriate responses to local and global environmental problems. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

GS142 General Science: Geology
3 class and 3 lab hr/wk, 4 cr.
Introduces geology using the Annenberg Earth Revealed video series. Studies the Earth as a system. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

GS151 Marine Environmental Systems
3 class and 3 lab hr/wk, 4 cr.
Investigates a variety of environmental issues facing the world’s oceans, including ocean acidification, sea level rise, melting Arctic sea ice, creation of dead zones, mining and drilling in the ocean, overfishing, invasive species, and more. Emphasizes placed on the role of humans in causing physical or chemical changes in the oceans that negatively impact marine life. Also explores solutions and methods to mitigate impacts through field experiences and case studies. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F

GS290 Introduction to Research
4 class hr/wk, 4 cr.
Focuses on the basic skills essential to ethical conduct of research in the biomedical and social sciences. Covers research misconduct, conflict of interest, use of human and non-human animal subjects in research, research collaboration, peer review, data acquisition and ownership, responsible authorship an publishing, the scientist as a responsible member of society, contemporary and historical issues in biomedical ethics, and the environment and societal impacts of scientific research. Prerequisite: Consent of instructor. Offered as needed

Human Development and Family Studies

HDF140 Home Visiting in Early Childhood Programs
1 class hr/wk, 1 cr.
Discusses home visitation program history, purpose, and practices. Explores a developmental approach to parenting, parent education, and parent support. Su, Offered as needed

HDF141 Sciences Experiencees with Young Children
1 class hr/wk, 1 cr.
Explores planning and implementing developmentally appropriate science activities with young children from 2½ to 6 years old. Focuses on hands on, child-centered activities with an emphasis on understanding how young children learn. Includes children of different ages, cultures, and abilities. Offered as needed

HDF143 Introduction to Effective Parenting
1 class hr/wk, 1 cr.
Provides an introduction to parenting skills for both parents and non-parents. Explores the roles and demands of parenting. Introduces parent self-care, stress management, child development and guidance principles and techniques using the evidence-based Make Parenting a Pleasure curriculum. Offered as needed

HDF222 Family Relationships
3 class hr/wk, 3 cr.
Examines communication patterns and relationships between adults, children and adults, and within intimate personal relations (marriage, families, and couples). Emphasizes understanding the role of the family and its consequent role in the development of the individual. Prerequisite: Placement into RD090 and WR090; or consent of instructor. F, W

HDF225 Prenatal, Infant, and Toddler Development
3 class hr/wk, 3 cr.
Studies the basic principles of development, prenatal through two years of age, for typically and atypically developing children. Emphasizes physical, intellectual, emotional, and social growth and development of young children. Prerequisite: Placement into RD090 and WR090; or consent of instructor. F
HDF227 The Whole Child
3 class hr/wk, 3 cr.
Gives students, parents, teachers, and professional child care providers the tools they need to foster the growth and well-being of children in their care. Features real child care givers, working and playing together with children in ways that facilitate learning and development. Locations used during the filming include a suburban preschool, an urban infant center and preschool, an in-home family child care program, two university child care centers and Head Start classrooms. Offered as needed.

HDF229 Middle Childhood Development
3 class hr/wk, 3 cr.
Examines the principles of development as they apply to children ages 6 through 12 years. Emphasizes typical and atypical development in the physical, intellectual, social, and emotional domains. Prerequisite: Placement into RD090 and WR090; or consent of instructor. Sp

HDF247 Preschool Child Development
3 class hr/wk, 3 cr.
Examines the principles of development as they apply to the young child ages 2½ to 6 years. Emphasizes typical and atypical development in the physical, intellectual, social, and emotional domains. Prerequisite: Placement into RD090 and WR090; or consent of instructor. F, W

HDF248 Learning Experiences for Young Children
4 class hr/wk, 4 cr.
Covers theories of intellectual development and includes: development, analysis, presentation, and evaluation of learning activities support development in all domains (physical, social, emotional, and intellectual). Emphasizes activities and materials which support open-ended, child-directed play and discovery in science (physics, chemistry, and biology) and language and literacy (representational and social knowledge), in an inclusive environment for children of all developmental levels. Prerequisite: HDF225 and HDF247, each with a grade of C or better; or consent of instructor. F, W

HDF249 Introduction to Working with Infants and Toddlers
3 class hr/wk, 3 cr.
Focuses on understanding, facilitating, and respecting the brain development of infants and toddlers. Prepares individuals to work with infants and toddlers in a variety of settings. Provides opportunities for discussion, demonstration, practice in the areas of environmental and material planning and interaction, curriculum, and observation skills development. Prerequisite: Placement into RD090 and WR090; or consent of instructor. F

HDF257 Home, School, and Community
3 class hr/wk, 3 cr.
Emphasizes helping future teachers and child care workers recognize and understand their unique position as resource coordinators and facilitators for parents. Focuses on developing effective and appropriate communication skills. Analyzes issues involving children with disabilities; ethics and values; and parent, school and community opportunities. Prerequisite: Second-year standing in the Early Childhood Education program; placement into RD090 and WR090; or consent of instructor. W

HDF258 Teaching in an Anti-Bias Classroom
3 class hr/wk, 3 cr.
Examines the development of practices for teaching young children in culturally relevant and inclusive ways. Covers identity development in relation to gender, race, and other biases that influence and affect children and families. Focuses on uncovering and naming biases. Examines the social context that contributes to biases that affect teaching attitudes and practices. Prerequisite: Placement into RD090 and WR090; or consent of instructor. W

HDF260 Child Abuse and Neglect
3 class hr/wk, 3 cr.
Introduces problems of child abuse and neglect for professionals in situations where children are cared for, such as child care centers and schools. This course may also be useful to other professionals who come into contact with children and need to be aware of issues regarding child abuse and neglect. Includes examining the causes of abuse, the abused child, the abusive parent and adult, the role of the teacher, areas of treatment, and education. Offered as needed

HDF265 Professional Issues in Early Childhood Education
3 class hr/wk, 3 cr.
Prepares early childhood educators to fill the many professional roles that require basic knowledge of ethics, conflict resolution, understanding of the special needs child, advocacy, governmental processes, and development of a professional attitude and point of view. Covers the development of the early childhood education field and profession. Prerequisite: Second-year standing in the Early Childhood Education program or consent of instructor. F

HDF286 Professional Issues and Leadership Early Childhood Education
3 class hr/wk, 3 cr.
Prepares early childhood educators to fill the many professional roles that require basic knowledge of ethics, conflict resolution, understanding of the special needs child, advocacy, governmental processes, leadership, and development of a professional attitude and point of view. Covers the development of the early childhood education field and profession. Prerequisite: Second-year standing in the Early Childhood Education program; or consent of instructor. W, Offered as needed

Health Education
See also HM—Health Information Management, and HPE—Health and Human Performance

HE204 Nutrition and Fitness
3 class hr/wk, 3 cr.
Examines basic concepts of nutrition and physical fitness. Emphasizes the application of behaviors and practices that contribute to individuals' health and wellness. Topics include, but are not limited to, essential nutrients, digestion, dietary guidelines, energy balance, exercise, weight management, and the role of nutrition in health and disease. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

HE209 Human Sexuality
3 class hr/wk, 3 cr.
Examines several aspects of human sexuality through the scope of physiological, psychological, and social perspectives. Emphasizes the understanding of the spectrum of sexual experience and behavior to develop awareness and make informed sexual decisions. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su
HE213 Women’s Health Issues
3 class hr/wk, 3 cr.
Examines selected health issues and their physical and emotional effects on women. Topics include: body image, eating disorders, reproductive life, sexually transmitted infections, violence, menopause, cancer, depression, heart disease, osteoporosis, Alzheimer’s disease, and the politics of women’s health.
Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

HE232 Science of Happiness
3 class hr/wk, 3 cr.
Evaluates personal happiness and positive psychology applications in mental health. Explores the power of thinking for healthy behavior change and building emotional resiliency in all aspects of life by re-infusing passion and purpose. Examines several concepts, including but not limited to the concept of success, science of happiness, stress, depression, anxiety, growth mindset, and brain health. Creates real-life applications and strategies that students can add to their life-coping tool-kit.
Prerequisite: Placement into WR090 (or higher) or completion of WR115 (or higher) with a grade of C or higher; or consent of instructor. F, W, Sp, Su

HE240 Drugs, Behavior, and Health
3 class hr/wk, 3 cr.
Analyzes current information concerning the impact of drugs on society, personal health, and behavior. Examines a variety of issues related to health and drug use including mental, physical, emotional, and environmental aspects of alcohol and other drugs. Prerequisite: Placement into WR115 (or higher) or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL

HE250 Personal Health
3 class hr/wk, 3 cr.
Presents basic information concerning the social, emotional, intellectual, physical, spiritual, and environmental aspects of personal health and wellness. Emphasizes health enhancing skills and behaviors. Provides an opportunity to apply and practice decision-making models regarding personal health issues. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

HE251 Community Health
3 class hr/wk, 3 cr.
Introduces the core functions of community health and the prevention of diseases, health needs of special populations, functions of voluntary and governmental health organizations, and future directions for community health. Includes epidemiology, chronic and infectious disease, social and behavioral factors in health, tobacco, obesity, maternal and child health, environmental impact on health, population growth, and the health care system. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

HE252 First Aid and CPR
3 class hr/wk, 3 cr.
Provides accepted safety, first aid, and cardiopulmonary resuscitation, philosophy, techniques, and procedures that will enable students to appropriately cope with emergencies ranging from minor to life-threatening. Upon successful completion, students may earn a completion card from the American Heart Association. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

HE253 Protective Equipment (PPE) and the Health Industry
3 class hr/wk, 3 cr.
Provides accepted safety, first aid, and cardiopulmonary resuscitation, philosophy, techniques, and procedures that will enable students to appropriately cope with emergencies ranging from minor to life-threatening. Upon successful completion, students may earn a completion card from the American Heart Association. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

HE254 Personal Protective Equipment (PPE)
3 class hr/wk, 3 cr.
Provides accepted safety, first aid, and cardiopulmonary resuscitation, philosophy, techniques, and procedures that will enable students to appropriately cope with emergencies ranging from minor to life-threatening. Upon successful completion, students may earn a completion card from the American Heart Association. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

HE255 Introduction to Hemodialysis
3 class hr/wk, 3 cr.
Introduces the core functions of community health and the prevention of diseases, health needs of special populations, functions of voluntary and governmental health organizations, and future directions for community health. Includes epidemiology, chronic and infectious disease, social and behavioral factors in health, tobacco, obesity, maternal and child health, environmental impact on health, population growth, and the health care system. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

HE256 Introduction to Hemodialysis Technology
3 class hr/wk, 3 cr.
Introduces the core functions of community health and the prevention of diseases, health needs of special populations, functions of voluntary and governmental health organizations, and future directions for community health. Includes epidemiology, chronic and infectious disease, social and behavioral factors in health, tobacco, obesity, maternal and child health, environmental impact on health, population growth, and the health care system. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

HE257 Hemodialysis Technician
3 class hr/wk, 3 cr.
Introduces renal replacement therapy for persons with end stage renal disease. Identifies normal kidney functions, causes of renal failure, and options for renal replacement therapy, as well as the specific requirements for hemodialysis technician. Covers machine set up and preparation, collection of specific patient information, and monitoring of the patient during the treatment. Explores the role of the hemodialysis technician in relation to the patient, and the professional team, including documentation and professional behaviors and communication. Focuses on the clinical environment for delivery of hemodialysis. Emphasizes preparation of dialysate and the functions of water and water treatment in the hemodialysis procedure. Introduces treatments medications with a focus on medications used in machine preparation. Expands patient monitoring to include dialysate and extracorporeal circuit and water monitoring. Includes preparation of the access site without needle insertion or catheter attachment. Develops an understanding of the process of determining treatment goals and providing the prescribed treatment. Also discusses Personal Protective Equipment (PPE) and the Health Information Portability and Accountability Act (HIPPA). Prerequisite: Admission to Hemodialysis Technician Program; and proof of current health care provider first aid/CPR certification; or consent of instructor. Offered as needed

HEM101 Hemodialysis Technology 1
8 class and 10 lab hr/wk, 13 cr.
Introduces renal replacement therapy for persons with end stage renal disease. Identifies normal kidney functions, causes of renal failure, and options for renal replacement therapy, as well as the specific requirements for hemodialysis and the responsibilities of the hemodialysis technician. Covers machine set up and preparation, collection of specific patient information, and monitoring of the patient during the treatment. Explores the role of the hemodialysis technician in relation to the patient, and the professional team, including documentation and professional behaviors and communication. Focuses on the clinical environment for delivery of hemodialysis. Emphasizes preparation of dialysate and the functions of water and water treatment in the hemodialysis procedure. Introduces treatments medications with a focus on medications used in machine preparation. Expands patient monitoring to include dialysate and extracorporeal circuit and water monitoring. Includes preparation of the access site without needle insertion or catheter attachment. Develops an understanding of the process of determining treatment goals and providing the prescribed treatment. Also discusses Personal Protective Equipment (PPE) and the Health Information Portability and Accountability Act (HIPPA). Prerequisite: Admission to Hemodialysis Technician Program; and proof of current health care provider first aid/CPR certification; or consent of instructor. Offered as needed
HEM102 Hemodialysis Technology 2
6 class and 14 lab hr/wk, 13 cr.
Focuses on safety and infection control in response to alarms, urgent, and emergent changes in patient’s condition. Integrates the knowledge of the hemodialysis patient and the treatment process to deliver a hemodialysis treatment plan for an assigned patient(s). Recognizes complications during a hemodialysis treatment and makes appropriate responses. Identifies the purpose of specific laboratory tests, including accurate acquisition of the specimens. Focuses on safety and infection control with the machine, water culturing, and disinfection. Examines the effects of renal failure on all body systems, and the emotional and social effects of renal failure for patients and their families. Covers documentation requirements that include adverse occurrence reporting and the patient “plan of care.” Applies understanding of vascular access, quality standards, CQI, and dialysis reimbursement. Includes identification of the roles of dialysis team members; professional standards and certification; professional boundaries; communication with physicians, NPs, and PAs; and state and federal guidelines related to the industry. **Prerequisite:** HEM101 with a grade of C or better; or consent of instructor. **Offered as needed**

HEM113 Healthcare Financing, Insurance, and Reimbursement
3 class hr/wk, 3 cr.
Provides the foundation skills required for understanding healthcare financing, medical insurance billing, and reimbursement. Covers local and national insurance programs and offers a practical approach to medical insurance billing and reimbursement procedures. **W**

HM114 CPT Coding/Reimbursement
4 class hr/wk, 4 cr.
Introduces the use of Current Procedural Terminology (CPT) coding system, the HCPCS coding system, insurance terminology and abbreviations. **Prerequisite:** Admission into the Health Information Management or the Medical Administrative Assistant program; and HM123; and BI171 and BI172, or higher; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **W**

HM115 ICD-10-CM Coding/Diagnosis
3 class and 3 lab hr/wk, 4 cr.
Introduces basic differences between nomenclature and classification systems: basic coding system, ICD-10-CM; basic abbreviations and description of format of coding manual; fundamental application of coding in basic forms. **Prerequisite:** HM123; and BI171 and BI172, or higher; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **F**

HM120 Medical Terminology 1
3 class hr/wk, 3 cr.
Emphasizes the terminology related to the healthcare professions and specialties, equipment, drugs, symbols and abbreviations. Includes the anatomy, physiology and pathophysiology of the musculoskeletal, cardiovascular, respiratory, and circulatory/blood system. Provides practical application in the workplace using case studies, operative, autopsy, diagnostic and laboratory reports. **F, W, Sp, Su**

HM121 Medical Terminology 2
4 class hr/wk, 4 cr.
Focuses on the urinary, female and male reproductive, endocrine, and nervous systems; sensory organs; cancer medicine; radiology and nuclear medicine; and psychiatry. Explores the origin of terms and the use of anatomical, general, operative, and symptomatic terms using a variety of case-based and experiential learning techniques. **Prerequisite:** HM120 with a grade of C or better; or consent of instructor. **F, W, Sp, Su**

HM123 Essentials of Pathophysiology
3 class hr/wk, 3 cr.
Builds on understanding normal structure and function of the human body. Introduces basic processes of pathophysiology, including cell function; inflammation; infection; immunity; and neoplasia, fluid, and electrolytes; and acid-base balance. Relates genetics and aging processes to pathophysiology. Uses a body systems approach to apply pathophysiological concepts to major disorders. **Prerequisite:** HM120 and HM121, each with grade of C or better; or consent of instructor. **Sp**

HM150 Professional Development and Communication for Health Information Management
2 class hr/wk, 2 cr.
Provides a comprehensive environment for students to become proficient in skills required of a healthcare office professional: develop leadership qualities, enhance awareness of diversity in the healthcare workplace, develop interpersonal communication skills, and provides a setting for self-improvement. Introduces social networking for healthcare professionals, resume development, and gives practical experience for phone and in-person employment interviews. Presents information concerning employment rights, and provides a setting for self-improvement and continuing education. **Prerequisite:** Admission into the Health Information Management program. **W**

HM160 ICD-10-PCS/Procedures
3 class and 3 lab hr/wk, 4 cr.
Introduces the use of the ICD-10-PCS procedural coding system, with emphasis on skill development in correct code assignment and groupings based on clinical information, documentation and coding guidelines. Introduces advanced coding topics. **Prerequisite:** Admission into the Health Information Management program; and HM123; and BI171 and BI172, or higher. (All prerequisite courses must be completed with a grade of C or better.) **Sp**
HM161 Computer Technology and Information Governance
3 class hr/wk, 3 cr.
Provides a comprehensive survey of computer technology, information governance, and the role Health Information Management plays in the mix. Provides computer literacy, including networks, exchanges, and the process of selecting and implementing health information systems. Includes discussions on usability and accessibility of health information by patients, and privacy and security concerns. Delves in the broad topic of information governance. Explores how information guides quality of patient care, operational efficiency and effectiveness, and how it can affect costs. Prerequisite: Admission into the Health Information Management program; or consent of Instructor. F

HM210 Introduction to Health Services
3 class hr/wk, 3 cr.
Provides an overview of the nation’s health system. Introduces use of health services, history of the health care system, hospitals and other health services providers and their relationship to the system as a whole. Explores the financial, legal, political, and ethical aspects of the health care system in the United States. Sp

HM214 Advanced CPT-IV Coding
3 class hr/wk, 3 cr.
Builds on previous experience or instruction to further develop ability and skills in CPT-IV coding practices and principles. Expands resources for further coding problem solving. Prerequisite: HM114 or one year of experience using CPT-IV codes; and HM120 and HM121, or basic knowledge of medical terminolgy as determined by instructor. (All prerequisite courses must be completed with a grade of C or better.) Su

HM215 Advanced ICD-9-CM Coding
3 class hr/wk, 3 cr.
Focuses on advanced ICD-9-CM coding practices and principles as well as resources for future coding problem solving. Prerequisite: HM115 or basic coding experience on the job; HM120 and HM121, or basic knowledge of medical terminolgy as determined by instructor. (All prerequisite courses must be completed with a grade of C or better.) Su

HM217 Healthcare Statistics
3 class hr/wk, 3 cr.
Introduces the basic data sets and statistics used every day in health care organizations. Emphasizes a case-based and experiential learning process to facilitate familiarity with occupancy and discharge rates, disease incidence and prevalence, and minimum and universal data sets used in all accredited organizations. Prerequisite: Admission into the Health Information Management program; or consent of Instructor. F

HM230 Health Information Management Practicum
15 lab hr/wk, 5 cr.
Provides workplace experience in a healthcare-related setting. Covers policies and procedures in tasks set forth by site, follow release of information guidelines, participate in quality assessment, develop skills using various software applications, and to help students perform as an entry-level HIM professional. Prerequisite: HM113, HM114, HM115, HM150, HM217; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

HM231 Health Information Management Seminar
1 class hr/wk, 1 cr.
Provides safe environment for students to share thoughts/concerns they might be experiencing at their concurrent practicum sights. Allows for instructors to alleviate any issues in a timely fashion. Provides space for completion of projects and/or simulations that will help students meet their entry-level competencies. Prerequisite: HM113, HM114, HM150, HM251; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

HM250 Leadership and Management
3 class hr/wk, 3 cr.
Introduces the management functions, concepts, and principles as well as managerial roles in the context of the health care organization and the health care delivery system. Emphasizes the area of human resource management in health care organizations. Explores the concepts of leadership, motivation, communication, dynamics of change, and labor relations within the context of the health care organization. Prerequisite: Admission into the Health Information Management program; or consent of Instructor. F

HM251 Quality and Process Improvement
3 class hr/wk, 3 cr.
Presents a comprehensive introduction to the theory, practice, and management of quality and performance improvement processes in healthcare organizations. Uses both real-life examples and case studies from healthcare settings to facilitate student understanding. Prerequisite: Admission into the Health Information Management program; and completion of HM250 with a grade of C or better; or consent of Instructor. W

HM252 Data Analytics
3 class hr/wk, 3 cr.
Provides a basic knowledge as to how to best analyze, categorize, and manage healthcare data. Students will have the opportunity to use actual data sets and data analytic tools to increase their skills. Prerequisite: Admission into the Health Information Management program; and completion of HM251 and HM217, each with a grade of C or better; or consent of Instructor. Sp

HM2808-L Cooperative Work Experience
See CWE—Cooperative Work Experience

Horticulture
See also SOIL—Soil Science

HOR105 Spanish for Horticulture
3 class hr/wk, 3 cr.
Covers practical Spanish terms and phrases specific to agriculture and horticulture in Oregon. Designed for beginning Spanish speakers to develop communication skills to work with Spanish-speakers in the workplace. Surveys cultural differences of native Spanish-speakers. Focuses on pronunciation, technical vocabulary, greetings, and basic grammar. Sp

HOR106 Green Infrastructure Management
1 class hr/wk, 1 cr.
Introduces Green Infrastructure (GI), such as raingardens, as a cost-effective, resilient approach to managing wet weather impacts that provides many community benefits. Explains how these facilities are becoming a common component of the rural and urban landscape all over the world. Demonstrates regular facility maintenance and assessments that are necessary for these sustainable structures to perform well. Covers basic types, functions, and components of green infrastructure, regulatory considerations, and how best to inspect, maintain, and assess facility performance. Offered as needed

HOR110 Bees and Other Pollinators
2 class hr/wk, 2 cr.
Examines the contribution of pollinators and the impacts of pollinator loss to global agriculture. Provides basic biological and ecological information on important pollinators in Oregon. Emphasizes habitat requirements and conservation tactics for individual pollinator types. Covers principles and mechanics of beekeeping. Investigates threats to pollinators and potential solutions. Offered as needed
HOR111 Introduction to Horticulture
2 class and 2 lab hr/wk, 3 cr.
Provides a broad view of the horticulture industry in Oregon. Introduces environmental factors important to plant growth. Covers basic principles of soils, media and plant nutrition. Discusses major components of horticulture industry including nursery and greenhouse, tree fruits, small fruits, vegetables and landscape. Presents scope of career opportunities in horticulture. F

HOR112 Pesticides and Safety
2 class hr/wk, 2 cr.
Focuses on safe use and handling of pesticides. Covers laws and regulations pertaining to pesticide use. Considers effects of pesticides on air, water, and wildlife. Emphasizes toxicity, safety equipment, and emergencies. Examines pesticide formulations and application equipment. Introduces mixing, loading and transporting pesticides and calibration of equipment. F, W, Sp

HOR115 Nursery and Greenhouse Equipment and Safety
3 class hr/wk, 3 cr.
Introduces equipment commonly used in nursery and greenhouse production, including operation, basic maintenance, and safety. Covers self-propelled equipment, mechanical attachments, pesticide application equipment, irrigation equipment, and tools. Emphasizes safety practices and regulations in use of all equipment. Offered as needed

HOR116 Introduction to Phytotechnology
3 class and 2 lab hr/wk, 4 cr.
Provides an overview of innovative technologies that use plants to clean water, soil, air, and build sustainable ecosystem services in managed (urban and rural) landscapes. Discusses conventional practices used to measure and treat quantity/quality of water, soil and air; the common pollutants found in each; and the impacts on environmental, social, and economic well-being. Explores environmental factors, horticultural practices, and physiological mechanisms that affect plant growth and response to pollution in phytotechnology applications. Introduces the range of career opportunities in this highly multi-disciplinary field. F

HOR201 Growing Vegetables in the Willamette Valley
3 class and 2 lab hr/wk, 4 cr.
Introduces important vegetable crop production in the Willamette Valley. Discusses history and current status of the Oregon vegetable industry. Presents essential cultural practices for vegetable production, including soil and fertility management, pest identification and control, and unique production aspects of individual vegetable crops. Offered as needed

HOR203 Fall Horticulture Practicum
1 class and 3 lab hr/wk, 2 cr.
Applies practical horticultural skills and techniques used in the fall in the areas of nursery, greenhouse, and organic food production. Includes plant propagation, soil and media preparation, transplanting, irrigation, fertilization, pest management, and growth regulation. Provides skills and experience in crop scheduling, production, processing, marketing, and sales. Industry field trips and guest lectures included. Prerequisite: HOR111, HOR211, and SOIL205; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F

HOR205 Spring Horticulture Practicum
1 class and 3 lab hr/wk, 2 cr.
Applies practical horticultural skills and techniques used in the spring in the areas of nursery, greenhouse, and organic food production. Includes plant propagation, soil and media preparation, transplanting, irrigation, fertilization, pest management, and growth regulation. Provides skills and experience in crop scheduling, production, processing, marketing, and sales. Industry field trips and guest lectures included. Prerequisite: HOR111, HOR211, and SOIL205; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

HOR211 Plant Propagation
3 class and 2 lab hr/wk, 4 cr.
Presents principles and practices of plant propagation with emphasis on methods used for ornamental nursery stock. Discusses anatomy, physiology and genetics related to plant reproduction. Covers seed propagation, cuttings, grafting, budding, layering, division, specialized roots and stems, and micropropagation. Identifies equipment, tools, and structures required for propagation. W

HOR212 Advanced Plant Propagation
1 class and 2 lab hr/wk, 2 cr.
Presents advanced principles and practices of plant propagation with emphasis on seed propagation and tissue culture. Emphasizes plant propagation techniques employed early in the growing season. Identifies equipment, tools, and structures required for advanced propagation techniques. Prerequisite: HOR211 with a grade of C or better; or consent of instructor. Offered as needed

HOR221 Nursery Production and Management
3 class hr/wk, 3 cr.
Focuses on production systems and management practices in container and field nurseries. Emphasizes irrigation, fertilization, pruning and other cultural practices that result in high quality plant material and healthy root systems. Covers harvesting, storing and shipping. Examines differences between container and field production. Explores current issues and trends in nursery production in Oregon. W

HOR225 Greenhouse Production and Management
3 class and 2 lab hr/wk, 4 cr.
Covers structural and mechanical aspects of the greenhouse environment. Compares greenhouse systems with regard to styles, frames, covers, benches, mechanical controls, lighting, irrigation, and fertilization. Focuses on management practices in production greenhouses. Covers irrigation and fertilization practices that result in high quality plant material. Considers regulation of light and temperature to achieve desired plant growth. Emphasizes growth regulation, production scheduling, and shipping and handling. Examines the wholesale and retail nursery industry in Oregon. W

HOR226 Fall Plant Identification
3 class and 2 lab hr/wk, 4 cr.
Identifies species and varieties of woody landscape plants that exhibit seasonal highlights of fruit and fall color. Stresses scientific naming of plants. Presents plant identification techniques that rely on recognition of form, structure and visual details of leaves, fruit and bark. Considers cultural requirements for individual species and varieties. F
HOR227 Winter Plant Identification
3 class and 2 lab hr/wk, 4 cr.
Identifies species and varieties of woody landscape plants, focusing on conifers and broadleaf evergreens with ornamental value. Stresses scientific naming of plants. Presents plant identification techniques that rely on recognition of form, structure and visual details of leaves, needles, cones, fruit and bark. Considers cultural requirements for individual species and varieties. W

HOR228 Spring Plant Identification
3 class and 2 lab hr/wk, 4 cr.
Identifies species and varieties of woody landscape plants that exhibit seasonal highlights in spring. Stresses scientific naming of plants. Presents plant identification techniques that rely on recognition of form, structure and visual details of leaves and flowers. Considers cultural requirements for individual species and varieties. Sp

HOR236 Integrated Pest Management: Weeds
3 class hr/wk, 3 cr.

HOR237 Integrated Pest Management: Insects and Diseases
3 class and 2 lab hr/wk, 4 cr.
Presents an integrated approach to disease and insect and mite management in the nursery and greenhouse. Covers identification of common insect and mite pests and their natural enemies, insect monitoring, and assessment. Focuses on cultural practices and biological control techniques to manage insect and mite problems. Includes use of insecticides and miticides to manage pest populations. Covers identification of common fungal, bacterial, and viral diseases in the nursery and greenhouse. Discusses monitoring and diagnosing diseases of greenhouse and nursery plants. Focuses on cultural, biological, physical, and chemical methods of disease management. F

HOR238 Plant Problem Diagnosis
2 class hr/wk, 2 cr.
Covers the basic principles of plant problem diagnosis in landscapes and gardens, based on available symptoms and signs. Focuses on distinguishing cultural and environmental problems from those caused by organisms, and mitigating those problems. Introduces the identification of specific biotic causes of plant problems, including fungal, bacterial, and viral plant diseases, insect pests, and vertebrate pest problems. Includes local examples. Identifies book and web-based resources for problem identification. Offered as needed

HOR240 Sustainable Landscape Design
3 class and 2 lab hr/wk, 4 cr.
Provides students with basic skills for designing residential and light commercial landscapes. Focuses on sustainable principles, including energy, soil, and water conservation applications. Introduces fundamental concepts for formulation of a landscape design. Identifies and describes the art and principles of design. Surveys various plants and hardscape materials. Establishes desired uses for public and private outdoor spaces. Explores issues of budget considerations and client needs, while minimizing negative impacts on the future environment. Offered as needed

HOR251 Growing Fruit in the Willamette Valley
2 class and 2 lab hr/wk, 3 cr.
Introduces important fruit crop production in the Willamette Valley for both commercial and personal use. Presents management systems and cultural practices for fruit crops, including raspberries, blackberries, blueberries, grapes, strawberries, hazelnuts, apples, pears, and stone fruits. Covers pruning and training principles for each fruit crop, as well as nutritional requirements, fertilization practices, and pest identification and management. Offered as needed

HOR255 Identification of Herbaceous Plants 1
2 class and 2 lab hr/wk, 3 cr.
Identifies species and varieties of annuals, perennials, groundcovers, ornamental grasses, and bulbs grown in Oregon, focusing on spring flowering and greenhouse-produced plants. Stresses scientific naming of plants. Presents plant identification techniques that rely on recognition of visual details of form, texture, size, leaves, flowers, and fruit. Considers production and cultural requirements for individual species and varieties. Offered as needed

HOR256 Identification of Herbaceous Plants 2
1 class and 2 lab hr/wk, 2 cr.
Identifies species and varieties of annuals, tender and hardy perennials, groundcovers, ornamental grasses, bulbs, and herbs grown in Oregon, focusing on plants with seasonal interest in the summer. Stresses scientific naming of plants. Presents plant identification techniques that rely on recognition of visual details of form, texture, size, leaves, flowers, and fruit. Considers production and cultural requirements for individual species and varieties. Su

HOR257 Horticultural Marketing
3 class hr/wk, 3 cr.
Covers the fundamentals of marketing ornamental plants, including market analysis and market strategies. Explores a variety of marketing communication tools and techniques and examines advantages and disadvantages of each. Examines current situations and future trends in national and international marketing. Focuses on development of a marketing plan for a nursery and greenhouse business. Offered as needed

HOR273 Urban and Community Forestry
2 class hr/wk, 2 cr.
Introduces economic, ecological, social, and technical aspects of urban forest management. Focuses on current practices related to the planting, care and management of trees and vegetation in urban areas. Covers the relationship between plants and people in the urban forest. Offered as needed

HOR275 Innovative Strategies for Water Management in Nurseries
2 class hr/wk, 2 cr.
Explores conventional and innovative water management systems that provide adequate quantity and quality of irrigation while protecting the environment and other local resources. Evaluates the benefits and challenges of using either recirculated water or reclaimed wastewater to grow plants. Examines phytotechnologies that can be applied on a nursery/greenhouse scale, such as vegetated filter strips, living machines, hydroponic tanks, floating islands, or wetland ponds. Offered as needed

HOR276 Organic Gardening
2 class and 2 lab hr/wk, 3 cr.
Provides the basic knowledge to care for gardens and landscapes without the use of synthetic pesticides and fertilizers. Compares conventional, sustainable, organic, and permaculture gardening techniques. Emphasizes soil enrichment techniques and appropriate use of organic fertilizers. Covers organic management of garden and landscape pests. Stresses hands-on application of scientific principles to create sustainable food production systems. Offered as needed
HOR277 Composting
2 class hr/wk, 2 cr.
Focuses on the composting process, methods of composting, and uses of compost. Covers home and industrial composting with an emphasis on horticultural scale composting (farm and nursery). Reviews regulations and safety considerations. Identifies benefits and challenges of composting. Focuses on the composting process, methods of composting, and uses of compost. Covers home and industrial composting with an emphasis on horticultural scale composting (farm and nursery). Reviews regulations and safety considerations. Identifies benefits and challenges of composting. Offered as needed

HOR280B-L Cooperative Work Experience
See CWE—Cooperative Work Experience.

HOR286 Organic Gardening Summer Practices
1 class hr/wk, 3 lab hr/wk, 2 cr.
Surveys summer organic garden practices. Applies practical skills and techniques used in the summer in the organic garden. Topics covered may include planting, bed preparation, irrigation, trellising (as needed), pest control, fertilization, harvest and post-harvest handling of vegetable crops. Offered as needed

Health and Human Performance
See also PE—Physical Education

HPE184 Sports Medicine: Prevention and Care of Athletic Injuries
3 class hr/wk, 3 cr.
Covers the basic concepts of athletic injury prevention, including taping and bracing techniques. Addresses injury recognition and management, including common mechanisms of athletic injury, signs and symptoms, and proper care and rehabilitation of common athletic injuries. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

HPE270 Sport Psychology
3 class hr/wk, 3 cr.
Introduces the mental, physical, and social aspects of sports. Presents basic psychological mechanics and discusses how they are part of athletic performance. Explores the newest research available. Focuses on decision making and behaviors which help promote team cohesion. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

HPE285 Advanced Prevention and Care of Athletic Injuries
3 class and 2 lab hr/wk, 4 cr.
Develops skills used in the field during athletic emergency or injury situations. Includes emergency first aid, CPR, heat and weather related sports considerations and injuries, rehabilitation techniques for return to play after common sport injuries, prevention of injuries through pre-season and in-season conditioning considerations and hydration. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of HPE184; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

HPE295 Health and Fitness for Life
3 class hr/wk, 3 cr.
Examines practices and behavior skills to improve lifelong fitness and wellness. Includes information on multi-dimensional concepts of health, fitness and wellness to help students develop practices that increase longevity and quality of life. Examines a student's personal practices that contribute to wellness and gain an understanding of how determinants of health influence health status. F, W, Sp, Su

HPE296 Health and Fitness 2
3 class hr/wk, 3 cr.
Provides a practical study of wellness components with a focus on individual promotion of health behaviors, lifestyles and disease prevention. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

HPE299 Sport Psychology
3 class hr/wk, 3 cr.
Introduces the mental, physical, and social aspects of sports. Presents basic psychological mechanics and discusses how they are part of athletic performance. Explores the newest research available. Focuses on decision making and behaviors which help promote team cohesion. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

Human Services

HS101 Addiction Pharmacology and Physiology
4 class hr/wk, 4 cr.
Explains how alcohol and other drugs are processed in the body and the brain (pharmacology). Includes information on the physiological effects of alcohol and other drugs (AOD) on the human body and the possible implications for the treatment and prevention of problems that arise from their use. F, Sp, Su

HS103 Ethics for Human Services
3 class hr/wk, 3 cr.
Introduces professional issues, codes of ethics, Federal and State laws, and regulations associated with the field of human services, traditional health workers, and substance use treatment. Explores factors related to ethical service delivery and the adaptation of helping strategies cross-culturally. Prerequisite: HS150 with a grade of C or better; or consent of instructor. W, Sp

HS105 Cultural Elements in Providing Services to Latino Populations
1 class hr/wk, 1 cr.
Increases cultural understanding and develops personal and professional clinical skills in working effectively with Latino clients in addiction and other treatment settings. Provides participants with an opportunity to learn and practice incorporating information into everyday clinical processes through activities and case study scenarios. Sp

HS120 Alzheimer's Disease: Coping and Caring
3 class hr/wk, 3 cr.
Presents information about Alzheimer's Disease and other dementias, exploring the disease process including the stages of Alzheimer's and associated behaviors. Focuses on the Best Friends approach to care-giving; addressing issues which families, caregivers, and case managers must attend to. Promotes the individual's adaptation and addressing issues of self-esteem and fear. Offered as needed

HS122 Women and Substance Disorder Treatment
2 class hr/wk, 2 cr.
Explores the historical, sociological and physiological implications of women and substance disorder. Offered as needed

HS123 Men and Substance Disorder Treatment
2 class hr/wk, 2 cr.
Explores the historical, sociological, and physiological implications of men and chemical dependency. Offered as needed

HS124 Working with LGBTQ+ Clients
1 class hr/wk, 1 cr.
Explores the historical, sociological and barriers of working with the LGBTQ+ population. Offered as needed

HS129 Grief, Loss, and Transition
3 class hr/wk, 3 cr.
Explores individual attitudes, beliefs, misconceptions, and responses toward death, dying, trauma, and out-of-sequences losses. Includes therapeutic tools used by professionals in assessing and addressing grief and mourning. Offers information on professional boundaries, compassion fatigue, and the importance of dealing with personal unresolved issues. Class is highly interactive. Offered as needed

HS140 Addressing Client Violence
1 class hr/wk, 1 cr.
Introduces the recognition, prevention, and management of clients demonstrating aggressive behavior. Stresses prevention of violence through early intervention and includes information on pre-aggression warning signs, as well as practice with defusing behavior. Sp
HS141 Nicotine Dependence Treatment
1 class hr/wk, 1 cr.
Provides an overview of the science of nicotine addiction, how it is similar and different to other addictions, and the assessment tools and treatment planning suggested in integrating treatment. Covers pharmacological supports available to aid in treatment. Designed for the chemical dependency treatment professional and students in the Addiction Studies Program. Offered as needed

HS150 Personal Effectiveness
3 class hr/wk, 3 cr.
Develops knowledge and skills to improve personal effectiveness. Uses individual and small group exercises to improve skills in self-awareness, communication, values clarification, problem solving, and conflict management. F, W

HS151 Compulsive Gambling
1 class hr/wk, 1 cr.
Covers basic information concerning problem gambling and its consequences. Focuses on the stages of progression from recreational to pathological gambling. Addresses screening, diagnosis, intervention and treatment. Prerequisite: HS101 with a grade of C or better; or consent of instructor. Offered as needed

HS152 Stress Management
1 class hr/wk, 1 cr.
Provides information on managing stress in all settings. Teaches relaxation techniques and their impact on health and well-being. Covers a variety of the major relaxation techniques and emphasizes the analysis of life stressors and the development of a personalized stress management plan. F, W, Sp, Su

HS155 Fundamentals of Interviewing
3 class hr/wk, 3 cr.
Introduces students to theory, intentional and motivational interviewing, and advocacy as a foundation for developing basic counseling skills. Prerequisite: HS150 with a grade of C or better; or consent of instructor. W, Sp

HS156 Counseling Theories
3 class hr/wk, 3 cr.
Introduces the major counseling theories and evidence-based practices that have demonstrated effectiveness with substance disorders and a variety of mental health issues. Presents an overview of ten specific theories, their founders, key concepts, techniques and appropriate applications. F, W, Sp

HS158 Trauma Informed Management Care
3 class hr/wk, 3 cr.
Introduces the sources and characteristics, and the acute and long-term impact of trauma on individuals, couples, and families in a developmental, biosocial context. Explores effects on those working with trauma survivors and the inadvertent re-traumatization of victims by the social service system. Introduces crisis management strategies in the context of a trauma-informed practice. Discusses policy and advocacy issues. Provides framework for crisis recognition/response and intervention with people experiencing trauma symptoms. Students will analyze and practice using a trauma-informed framework designed to work successfully with trauma survivors in multiple settings, including how to recognize and respond to crisis. Examines key elements necessary to provide trauma-informed interventions and examples of trauma-informed services. F, W, Sp, Su

HS170 Introduction to Practicum
4 class hr/wk, 4 cr.
Provides the background and specific skills needed to select and succeed in the practicum placement. Introduces the history and values of community resources designed to meet the needs of vulnerable populations. Familiarizes students with local social service agencies and organizations to make appropriate referrals. Prerequisite: Enrollment in the Human Services program. W, Sp

HS172 Peer Delivered Services—Substance Use Disorders
11 class hr/wk, 1 cr.
Designed to meet most of the training requirements necessary to work in peer delivered services to those with substance use disorders (SUD). Focuses on the areas of outreach and mobilization, community and cultural outreach and liaising, case management, care coordination, system navigation, and health promotion and coaching. Offered as needed

HS201 Addiction: The Family System
3 class hr/wk, 3 cr.
Presents basic information regarding addiction and its effects on the whole family. Focuses on the family system and dynamics related to coping with addiction and other chronic conditions that impact the family life cycle. Introduces the major schools of family therapy including strengths-based and solution-oriented approaches. Prerequisite: HS101 with a grade of C or better; or consent of instructor. W, Sp

HS205 Youth Addiction
3 class hr/wk, 3 cr.
Focuses on working with youth and substance use. Includes prevention, intervention, assessment, and continuing recovery techniques for individuals and groups. Prerequisite: HS101 with a grade of C or better; or consent of instructor. Offered as needed

HS206 Involuntary Clients, Criminality, and Substance Use Disorders
3 class hr/wk, 3 cr.
Assists Human Services workers to develop skills for clients with substance use disorders who may be court-ordered into treatment services, or who may have a history of inappropriate, possibly illegal behaviors with or without legal history, or who are under threat of some form of legal sanctions. Includes information on recognizing, confronting, and treating cognitive distortions. Prerequisite: HS101 with a grade of C or better; or consent of instructor. Offered as needed

HS207 Adult Children of Alcoholics/Addicts
1 class hr/wk, 1 cr.
Explores the relationship between growing up in a chemically-dependent or dysfunctional family and ensuing problems in adulthood. Discusses family dynamics, denial, relationships, work, social skills and feelings. Offered as needed

HS209 Co-occurring Disorders
3 class hr/wk, 3 cr.
Covers basic information about integrated assessment and treatment for individuals with both substance use disorders and mental health conditions. Prerequisite: HS101; and HS266 or HS216; or consent of instructor (All prerequisites must be completed with a grade of C or better.) Sp

HS211 Wellness Counseling
1 class hr/wk, 1 cr.
Explores the relationship between alcohol and other drug abuse and infectious diseases, including HIV/AIDS, tuberculosis, sexually-transmitted diseases (STIs) and hepatitis. Explores different health issues such as diabetes, asthma, obesity, and medication adherence. Examines personal issues and discomforts arising from frankly discussing sexual and health behaviors of clients. Provides counseling techniques for assisting clients to identify personal risk and practice harm reduction of STIs and other health issues. W, Sp
HS213 Multicultural Issues
4 class hr/wk, 4 cr.
Examines the effects of cultural differences on the client and human service provider. Increases awareness of cultural differences and the skills to develop and apply appropriate intervention strategies in cross-cultural situations. Focuses on course work as a method to navigate cross-cultural interactions. Prerequisite: HS150 and HS260, each with a grade of C or better; or consent of instructor. F, W

HS214 Advanced Interviewing and Counseling Skills
3 class hr/wk, 3 cr.
Introduces intentional interviewing. Focuses on developing advanced skills and strategies with significant opportunity for skill acquisition through practice. Second of a two-course sequence. Prerequisite: HS155 with a grade of C or better; or consent of instructor. Sp

HS216 Assessment and TX Planning
3 class hr/wk, 3 cr.
Introduces diagnostic criteria for substance use disorders as well as a non-substance related disorder. Provides a systematic approach to screening, assessment, identification of and placement in appropriate level of care, and treatment planning in order to determine the most appropriate initial course of action given the client’s needs, characteristics, and available resources. Provides significant opportunity for hands-on practice. Recommended: Concurrent enrollment in HS284-288. Prerequisite: HS214 with a grade of C or better; or consent of instructor. F

HS217 Group Counseling Skills
3 class hr/wk, 3 cr.
Presents strategies from accepted and culturally appropriate models for group counseling with clients with a variety of disorders including substance abuse. Focuses on the ethical use of groups as an effective therapeutic intervention. Addresses leadership behaviors, group formation and group stages. Recommended: Concurrent enrollment in HS284-288. Prerequisite: HS155 and HS260, each with a grade of C or better; or consent of instructor. W

HS218A Group Processes A
1 class hr/wk, 1 cr.
Provides experiential group training designed for actual experience with the power of group process. Provides opportunities to learn about leadership, group stages, rules and norms as well as self-disclosure, roles and group skills. First course in a three-term sequence. Recommended: Concurrent enrollment in HS284-288. Prerequisite: Enrollment in the Human Services program; and HS218A with a grade of C or better; or consent of instructor. F

HS218B Group Processes B
1 class hr/wk, 1 cr.
Provides experiential group training designed for actual experience with the power of group process. Provides opportunities to learn about leadership, group stages, rules and norms as well as self-disclosure, roles and group skills. Second course in a three-term sequence. Recommended: Concurrent enrollment in HS284-288. Prerequisite: Enrollment in the Human Services program; and HS218A with a grade of C or better; or consent of instructor. W

HS218C Group Processes C
1 class hr/wk, 1 cr.
Provides experiential group training designed for actual experience with the power of group process. Provides opportunities to learn about leadership, group stages, rules and norms as well as self-disclosure, roles and group skills. Third course in a three-term sequence. Recommended: Concurrent enrollment in HS284-288. Prerequisite: Enrollment in the Human Services program; and HS218B with a grade of C or better; or consent of instructor. Sp

HS219 Client Records, Case Management, and Care Coordination
3 class hr/wk, 3 cr.
Covers the preparation of clinical documentation related to screening and intake processes, assessments, treatment plans, reports, progress notes, discharge summaries, using medical/behavioral health terminology and other client-related data and care coordination. Applies State, HIPAA, ASAM, and other professionally relevant standards. Recommended: Concurrent enrollment in HS284-288. Prerequisite: HS150 and HS170, each with a grade of C or better; or consent of instructor. Sp

HS220 Aging: Theory and Practice
3 class hr/wk, 3 cr.
Introduces the field of gerontology. Explores the relationship between the aging individual and society. Presents information on theory and practice, including: behavioral responses to the normal aging process, healthy adaptation to aging, substance use and disorders, and diagnosis and treatment of common organic and functional mental disorders. Examines how discrimination of the aging population arises from culturally defined meanings attributed to difference. Sp

HS221 Therapeutic Recreation
3 class hr/wk, 3 cr.
Provides experiential group training including models of service, definitions and benefits of therapeutic recreation, history and development of the profession and the nature of therapeutic recreation service. Explain both theories and experiential activities that both drive and support the profession. W

HS223 Multicultural Issues
3 class hr/wk, 3 cr.
Examines the effects of cultural differences on the client and human service provider. Increases awareness of cultural differences and the skills to develop and apply appropriate intervention strategies in cross-cultural situations. Focuses on course work as a method to navigate cross-cultural interactions. Prerequisite: HS150 and HS260, each with a grade of C or better; or consent of instructor. F, W

HS225 Comprehensive Case Management
3 class hr/wk, 3 cr.
Provides theory and application in care coordination, systems navigation, casework and interviewing applied to diverse populations and cultures in human services. Includes interviewing for assessment, problem solving, planning, monitoring, crisis intervention and development of a case file. Prerequisite: HS265 with a grade of C or better for Human Services degree students; or consent of instructor. F
HS284A-288A Practicum: Human Services - Addiction Studies 12-24 lab hr/wk, 4-8 cr.
Provides experience working on-site in a human service agency to integrate field and classroom experiences. Offers Addiction Studies students two different practicum sites, each at least two terms in length, during the Addiction Studies degree acquisition. The second practicum is more comprehensive and provides an opportunity to develop more advanced skills. Students in the post-baccalaureate Addiction Counselor Certification Program remain at one site for three terms. Prerequisite: HS103, HS150, HS155, and HS170 for Human Services Addiction Studies (AS) degree students; or consent of instructor. Students in the Mental Health Addiction Certification must have satisfactorily completed one term in the program including HS103 and HS155 or similar courses, and attend an orientation prior to consideration for practicum. Students must also register with the Mental Health Addiction Certification Board of Oregon (ACCBO) prior to starting the first term of practicum. Students must have completed or be concurrently enrolled in HS216 (or HS217 once HS216 is completed) to commence (or continue in) practicum at a second site. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

HS284D-288D Practicum: Human Services - Direct Support Specialist 12-24 lab hr/wk, 4-8 cr.
Provides experience working on-site in a human service agency to integrate field and classroom experiences. Offers Direct Support Specialist students two different practicum sites, each at least two terms in length, during the Associate of Applied Science degree acquisition. The second-year practicum is more comprehensive and provides an opportunity to develop more advanced skills. Prerequisite: HS103, HS150, HS155, and HS170; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

HS284S-288S Practicum: Human and Social Services 12-24 lab hr/wk, 4-8 cr.
Provides experience working on-site in a human service agency to integrate field and classroom experiences. Offers Social Services students two different practicum sites, each at least two terms in length, during the Associate of Applied Science degree acquisition. Second-year practicum is more comprehensive and provides an opportunity to develop more advanced skills. Prerequisite: HS103, HS150, HS155, and HS170; or consent of instructor. Students must have completed or be concurrently enrolled in HS265 or HS266 to commence (or continue in) practicum at a second site. (All prerequisite courses must be completed with a grade of C or better.) F, W

HS284T-285T Practicum: Human Services—Traditional Health Workers 12–15 lab hr/wk, 4-5 cr.
Provides experience working on-site in a human service agency to integrate field and classroom experiences. Offers Traditional Health Worker students a one-term practicum in the third term of the program. Prerequisite: HS103, HS150, HS155, and HS170. (All prerequisite courses must be completed with a grade of C or better.) Concurrent: HS172. F, W, Sp, Su

History
HST104 World Civilization: 3500 B.C. to 1450 4 class hr/wk, 4 cr.
Surveys human cultural, social, economic, intellectual, and political development of world civilizations from 3500 B.C to 1450. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

HST105 World Civilization: 1450 C.E. to 1870 4 class hr/wk, 4 cr.
Surveys human cultural, social, economic, intellectual, and political development of world civilizations from 1450 C.E. to 1870. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

HST106 World Civilization: 1870 to the Present 4 class hr/wk, 4 cr.
Surveys human cultural, social, economic, intellectual, and political development of world civilizations. Covers 1870 to the present. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

HST157 Middle East and North Africa 4 class hr/wk, 4 cr.
Surveys human cultural, social, and economic and political developments in the Middle East and North Africa. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

HST201 United States: to 1840 4 class hr/wk, 4 cr.
Explores the cultural, economic, social, and political developments of the United States to 1840. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL

HST202 United States: 1840 to 1900 4 class hr/wk, 4 cr.
Explores the cultural, economic, social, and political developments of the United States from 1840 to 1900. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL

HST203 United States: 1900 to Present 4 class hr/wk, 4 cr.
Explores the cultural, economic, social, and political developments of the United States from 1900 to present. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL

HST228 History of Modern Europe 4 class hr/wk, 4 cr.
Introduces the history and culture of Europe from 1900 to the present. Analyzes the impact of war and revolution, the end of colonialism and the decline of European empires, and the search for European unification. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL

HST237 America in the Sixties 4 class hr/wk, 4 cr.
Presents an overview of American/U.S. history during the turbulent years of the Sixties. Covers a broad range of themes and ideas that occurred during the Sixties. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Sp
HST257 Native American
4 class hr/wk, 4 cr.
Studies the history of native peoples in the United States, from prehistory to the present. Examines how Native American societies have adapted over time to a constantly changing world. Emphasizes the relationship between European Americans and Native Americans after 1492. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed; CL

HST258 African American
4 class hr/wk, 4 cr.
Recounts and explains experiences which lie at the heart of America's struggle to deal with its racial composition. Examines historical forces which denied African Americans the opportunity to secure meaningful first-class citizenship. Focuses on the political and social lives of African Americans. Additionally, examines the decisions and social institutions that determined public policy regarding Americans of African descent. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Sp; CL

HST262 Women in U.S.
4 class hr/wk, 4 cr.
Studies the transformation of the role of women in American society. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. W, Sp, Su; CL

HST269 Pacific Northwest
4 class hr/wk, 4 cr.
Examines the diverse history of the Pacific Northwest. Discusses political, economic, social, and cultural transformations in the region, placed in a national and international context. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, Sp; CL

Hospitality and Tourism Management
(All courses in this section are offered online.)
See also NFM—Nutrition and Food Management

HTM100 Hospitality Industry
4 class hr/wk, 4 cr.
Introduces the hospitality industry as a single, interrelated industry composed of food and beverage; catering and banquets; resorts and lodging; and managed services. Includes industry components, their current issues, and future trends. Assesses the impact of North America's changing demographics and lifestyles. Discusses economic impact, career opportunities, and service ethics. Offered as needed

HTM104 Tourism and Travel Industry
4 class hr/wk, 4 cr.
Explores the major concepts in tourism, what makes tourism possible and how tourism can become an important factor in the economics of any nation, region, state or local area. Discusses the fundamentals of the tourism system and the key costs and benefits of a tourism economy. Promotes understanding and knowledge of the diverse elements that comprise the travel and tourism industry and the factors that influence growth and development. Uses examples of tourism development practices in Oregon. Offered as needed

HTM105 Restaurant Operations
4 class hr/wk, 4 cr.
Covers the food service industry, including its structure, organization, size, economic impact, regulatory industries, and peripheral industries. Explores the industry from the back-of-the-house (BOH) and front-of-the-house (FOH) perspectives to uncover traditional operational procedures and practices to maximize profitability. Discusses current industry operational topics. Offered as needed

HTM107 Hospitality Cost Control
4 class hr/wk, 4 cr.
Covers principles and practices of profit management for the hospitality industry. Explains cost control and yield analysis processes from purchasing through receiving, storage, issuing, preparing and serving. Includes inventory control techniques. Explores labor cost control, revenue forecasting, income statement analysis and budgeting. Offered as needed

HTM114 Travel Destination Geography
4 class hr/wk, 4 cr.
Focuses primarily on the tourism attributes of geographical areas of North America, with a brief look at the other major tourism destinations on Earth. Provides in-depth geographical and tourism-related information on the countries emphasized. Offered as needed

HTM125 Special Events Planning
4 class hr/wk, 4 cr.
Covers the management and operational activities required for successful coordination of special events and weddings. Focuses on research, design, planning, coordination stages and career opportunities within the special event and wedding industry. Offered as needed

HTM127 Selling in Hospitality and Tourism
4 class hr/wk, 4 cr.
Focuses on learning how to sell services for a hospitality or tourism based business and how consumer use of the Internet impacts purchase decisions. Analyzes the different selling strategies used by the industry. Offered as needed

HTM131 Customer Service
4 class hr/wk, 4 cr.
Provides an in-depth study of the methods and techniques employed by the hospitality and tourism industry to accomplish effective and efficient customer service operation. Covers the full spectrum of quality service delivery, from the customer's unique perspective. Outlines customer expectations for both task completion and quality experience. Discusses key personal traits, skills, and techniques for successful service delivery, including conflict resolution. Covers the unique perspectives of service in a 24/7 business environment. Includes combined discussions of management theory, systems, decision-making, and leadership directly relevant to any profession with emphasis on the hospitality industry. Offered as needed

HTM138 Foods and Beverages: Gastronomy
4 class hr/wk, 4 cr.
Explores the evolution of modern gastronomy and the culture of cuisine. Identifies key chefs and food writers who have contributed to the emergence of celebrity chefs and their impact on the American diet. Covers basic cooking techniques, cuts of meat, produce seasonality, and wine and food pairings. Investigates creating marketable culinary experiences. Offered as needed

HTM143 Computer Reservation Systems
4 class hr/wk, 4 cr.
Focuses on the current methods that tourists and travel providers use to connect to, purchase, and/or sell travel related products and services. Explores travel information systems, rate negotiation, and distribution of services. Offered as needed

HTM203 Service Marketing
4 class hr/wk, 4 cr.
Studies how marketing activities direct the flow of goods and services from product to consumer in the hospitality and tourism industry. Explores service marketing and how it differs from product marketing. Incorporates these concepts into market differentiation and segments, including a consumer's service expectations. Focuses on building a brand with a distinct market position and incorporating promotion and advertising strategy. Analyzes various industry marketing strategies. Offered as needed
HTM209 Lodging Operations
4 class hr/wk, 4 cr.
Focuses on specific functions of lodging operations at a hotel, motel, or resort. Includes reservations, registration, room and rate assignment, guest services, room status, maintenance and settlement of guest accounts, and creation of guest history records. Discusses guest information database development and maintenance, coordination of guest services, and practices for ensuring guest satisfaction. Includes an analysis of staffing, housekeeping, and revenue management. Room accounting and auditing procedures are also covered. Offered as needed

HTM224 Catering and Banquets
4 class hr/wk, 4 cr.
Studies on-premise catering facilities, including operations, sales, and relationships with outside vendors, related departments, and industries. Emphasizes logistical operations and seeking and servicing various market segments. Includes a discussion of safety and sanitation issues specific to food and beverage service. Explores career opportunities and requisite skill sets. Offered as needed

HTM226 Meetings and Conventions
4 class hr/wk, 4 cr.
Focuses on the management and operations of the convention and meeting market in the hospitality and tourism industry. Covers market sales, promotional activities, negotiations for meeting services, and convention servicing. Incorporates facilities, technology, and media. Offered as needed

HTM290 HTM Strategic Management
4 class hr/wk, 4 cr.
Reviews and refines essential skills needed for career success in the hospitality and tourism industry. Covers developing competency in creative problem-solving, critical thinking, effective oral and written communication, ethical reasoning, quantitative analysis, and the use of technology. Uses an industry-validated hotel management simulation tool to provide students with an applied learning experience. Prerequisite: Second-year standing in Hospitality Management or Tourism and Travel Management programs. Offered as needed

Humanities

HUM106 British Life and Culture
3 class hr/wk, 3 cr.
Offers a broad overview of British culture and civilization. Examines traditions and institutions to help understand the British way of life in the 20th century. Lectures by British guest lecturers and related field trips. This course (taught in London) is only for students participating in the London program of the Oregon International Educational Consortium. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Sp

HUM120 International Community Development in Action
4 class hr/wk, 4 cr.
Examines the themes and concepts of international community development in impoverished global regions and provides direct cross-cultural experience by living and working in another country, with emphasis on the unequal distribution of wealth and power evident in the world. Develops a broad understanding and critical thinking about global forces and culture through the disciplines of education, philosophy, literature, economics and community development. Prepares students to participate thoughtfully and responsibly in community development field work (service learning). Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Sp; CL

HUM220 Resisting Empire: Latin American Revolution
3 class hr/wk, 3 cr.
Focuses on the culture, ideas, and actions that typify revolutionary movements in Latin America since the dawn of the twentieth century. Examines a Latin American emphasis against the backdrop of empire as manifested in the actions of local elites, first-world countries—especially the United States—and worldwide capitalist structures. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed; CL

HUM221 Global Leadership
3 class and 1 lab hr/wk, 4 cr.
Provides a methodology to assess personal leadership skills and applies them to a global perspective. Examines global perspectives and builds consciousness about issues of power in the United States and provides direct global experience by living and working in the community, with emphasis on the unequal distribution of wealth and power evident both locally and globally. Develops a broad understanding and critical thinking about global forces and culture through the integration of works of literature, contemporary multicultural readings, exercises and films. Creates an immersive, intercultural, and global service learning experience. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Su, Offered as needed; CL

HUM225 Effective International Development: Theory to Practice
2 class and 4 lab hr/wk, 4 cr.
Continues an in-depth examination of a specific area of international community development in impoverished global regions. Focus of the course may include the areas of education, micro-finance, business, or human trafficking. Encourages critical thinking about global forces and the interaction of converging factors such as culture, philosophy, history of a country, literature, economics, and the processes that occur in community building in specific areas. Prepares students to participate thoughtfully and authentically in community development field work (service learning), and provides direct cross-cultural experience by living and working in another country with emphasis on unequal distribution of wealth and power as key factors in social justice. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed; CL

Journalism

JNL215 Publications Lab
4 lab hr/wk, 2 cr.
Covers practical application of journalism, photojournalism, and newspaper production skills through work on the student newspaper. Course may be repeated for a maximum of 12 credits. Prerequisite: Placement into WR115 (or higher), or WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp
JNL216 News Writing  
3 class hr/wk, 3 cr.  
Focuses on gathering and processing the news. Includes specific treatments on lede formats, organizing and constructing news stories, developing a news writing style and both straight and feature materials. Covers editorial and column writing with considerable time devoted to the craft of writing. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor.  
F

JNL244 Introduction to Mass Communication  
3 class hr/wk, 3 cr.  
Survey of communication media with emphasis on historical, social, technological, and economic considerations in mass media in the United States. Examines important current legal and ethical dilemmas facing journalists. Recommended for journalism majors; open to non-majors. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor.  
Offered as needed

JNL240 Multimedia Journalism  
2 class and 2 lab hr/wk, 3 cr.  
Introduces students to the reception and production of multimedia texts designed for circulation in the mass media landscape and presents opportunities to practice media literacy skills related to both theory and practice. Engages students with key historical and contemporary texts in writing, photography, data visualization, layout and design, audio, and video journalism. Write for digital platforms, distribute news via social media, and present text, photography, audio and video. **Prerequisite:** Placement into WR115; or completion of WR090 with a grade of C or better; or consent of instructor. Previous computer experience.  
Sp

Japanese  
JPN101, 102, 103 First Year  
Japanese, Terms 1, 2, 3  
4 class hr/wk, 4 cr. each  
Introduces the Japanese language (including listening, speaking, reading and writing) and Japanese culture (including geography, customs, daily life, heritage and literature), facilitated by the study of vocabulary, grammar, short readings and guided conversation. Instructor and students use Japanese as the primary language of the class. **Recommended:** JPN101: None; JPN102: JPN101, or one year of high school Japanese; JPN103: JPN102, or two years of high school Japanese. (With a grade of C or better.)  
**Prerequisite:** Placement into WR115 (or higher); or completion of WR090 (or concurrent enrollment), or WR115 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better) JPN101: F; JPN102: W; JPN103: Sp

JPN120 Introduction to Japanese Prosody  
3 class hr/wk, 3 cr.  
Presents the segmentation and pitch accent patterns of Japanese words from a linguistic perspective. Compares Japanese patterns to those of other languages, particularly English. **Prerequisite:** Placement into WR115 (or higher); or completion of WR090 (or higher); and completion, or concurrent enrollment, of JPN103; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.)  
Offered as needed

JPN201, 202, 203 Second Year  
Japanese, Terms 1, 2, 3  
4 class hr/wk, 4 cr. each  
Provides extensive practice in all four language skills (reading, writing speaking, and listening). Includes cultural and literary readings and an in-depth review and expansion of basic Japanese grammar and vocabulary, as well as a broadening of the understanding of Japanese culture. All classroom interaction (both by instructor and students) takes place in Japanese. **Recommended:** JPN201: JPN103, or three years of high school Japanese; JPN202: JPN201, or four years of high school Japanese; JPN203: JPN202, or four years of high school Japanese. (With a grade of C or better.)  
**Prerequisite:** Placement into WR115 (or higher); or completion of WR090 (or concurrent enrollment), or WR115 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) JPN201: F; JPN202: W; JPN203: Sp

JPN211, 212, 213 Intermediate Japanese Conversation, 1, 2, 3  
4 class hr/wk, 4 cr. each  
Provides Japanese conversation for intermediate learners. Fosters increased oral communication in the language and an expanded understanding of Japanese culture. All classroom interaction (both by instructor and students) takes place in Japanese. Recommended: JPN211: Completion of JPN103 with a grade of C or better; JPN212: Completion of JPN211 with a grade of C or better; JPN213: Completion of JPN212 with a grade of C or better.  
**Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher), or consent of instructor. JPN211: F; JPN212: W; JPN213: Sp; Offered as needed

Linguistics  
LING210 Introduction to Linguistics  
4 class hr/wk, 4 cr.  
Examine the fundamentals of linguistic analysis: phonetics, phonology, morphology, syntax, and semantics, and explore the similarities and differences in the languages of the world. Explore language variation and language use and attitudes towards ethnic minorities and social dialects. Understand the process of language acquisition and language issues in the field of education.  
**Prerequisite:** WR115 with a grade of C or better, or concurrent enrollment; or consent of instructor.  
W, Sp

Medical Assisting  
MED124 Medical Assisting, Basic Procedures  
3 class and 3 lab hr/wk, 4 cr.  
Surveys the requirements and qualities for success as a medical assistant. Covers medical assisting techniques, methods, and procedures for assisting the physician with numerous examinations, medical and surgical aseptic procedures, obtaining vital signs, care of equipment and supplies, and quality assurance. Integrates legal and ethical implications in a medical care setting. **Prerequisite:** Admission into the Medical Assisting program.  
Corequisite: MED125, MED130, and MED131.  
F, Sp
MED125 Medical Assisting, Advanced Procedures
4 class and 3 lab hr/wk, 5 cr.
Surveys advanced clinical/laboratory knowledge and skills required of the medical office assistant. Emphasizes electrocardiography, hematology, urinalysis, microbiology, respiratory testing, clinical pharmacology, as well as administration of medications, phlebotomy, and assisting the physician with procedures. Covers diet modification, radiology, principles of heat and cold application, and common emergencies. Prerequisite: Admission into the Medical Assisting program. Corequisite: MED124, MED130, and MED131. F, Sp

MED130 Medical Assisting Practicum
16 lab hr/wk, 5 cr.
Prepares students to begin their practical experience in a health care setting. Includes medical office assisting methods, procedures and techniques, effective communication, and clinical- and work-practice skills. Prerequisite: Admission into the Medical Assisting program. Corequisite: MED124, MED125, and MED131. F, Sp

MED131 Medical Assisting Seminar
1 class hr/wk, 1 cr.
Studies the relationship of practice in a healthcare setting with theoretical course content, as well as its application to career and personal goals. Prepares students to take the NCCT certification examination. Prerequisite: Admission into the Medical Assisting program. Corequisite: MED124, MED125, and MED130. W, Su

MED132 Medical Assisting Clinical Practice
2 class and 27 lab hr/wk, 11 cr.
Introduces students to clinical practice experience with patients in a work setting. Includes clinical procedures, infection control, specimen collection and testing, medication administration, communication, and work-practice skills. Prerequisite: Admission into the Medical Assisting program; and MED124, MED125, MED130, and MED131. (All prerequisite courses must be completed with a grade of C or better.) W, Su

Industrial Technologies
See also ELT—Electronics Technologies

MT101 Introduction to Process Control
2 class hr/wk, 2 cr.
Provides an overview of industrial process control and measurement systems. Presents a foundation for technicians, engineers, and managers to communicate with other control system professionals. Reviews the roles and responsibilities of process technicians, engineers, and managers. Serves as a solid fundamental course for introduction to other process control courses. Information provided promotes and supports sustainable and green technologies. Offered as needed

MT105 Introduction to Robotics
1 class and 6 lab hr/wk, 3 cr.
Provides an introduction to robot mechanisms, dynamics, and intelligent controls. Topics include kinematics, motions, manipulators and mobility, body dynamics, simulation, control design, actuators, sensors, wireless networking, task modeling, and embedded software. Develops communication and teamwork through documentation and collaborative project design. Robotic systems will be designed and fabricated as group-based term project. Offered as needed

MT110 Microelectronics and Solar Cell Manufacturing
3 class hr/wk, 3 cr.
Surveys the field of microelectronics. Covers an overview of the technology and manufacturing processes used and the economic and social impacts. Applies to students considering a career in Oregon’s high growth semiconductor and solar cell manufacturing industries. Information provided promotes and supports sustainable and green technologies. Prerequisite: MTH070 with a grade of C or better; or consent of instructor. Offered as needed

MT130 Motors, Pumps, and Generators
2 class hr/wk, 2 cr.
Develops key knowledge about motor, generator, and pump fundamentals for use in industrial facilities and consumer products. DC, AC, three-phase, Servo, stepper, hydraulic, and pneumatic motors and generators are covered. Provides a working knowledge for those entering all industries including green technologies. W, Offered as needed

MT211 Sensors and Control Elements 1
2 class hr/wk, 2 cr.
Examines the types and uses of industrial sensors and actuators. Includes temperature, pressure, optical, position and flow sensors. Covers operation of AC, DC, and three phase motor drives. Focuses on wiring and troubleshooting of sensors and actuators. Prerequisite: ELT100 or ELT133; and MT101; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

MT212 Sensors and Control Elements 2
2 class and 2 lab hr/wk, 3 cr.
Offers a working understanding of smart field devices with an emphasis on more reliable information gathering, decreased maintenance time, ease-of-use, and multi-tasking capabilities. Discusses conventional systems and enhancements when combined with digital control networks, including basic and multivariable smart transmitters and smart valve-positioners. Provides an understanding of electrical grounding from electrical and instrumentation loop relationships. Covers grounding for personnel/equipment protection as well as for electrical noise. Presents signal wiring and noise reduction methods. Prerequisite: ELT100 or ELT133; and MT101; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

MT215 Instrumentation
2 class and 2 lab hr/wk, 3 cr.
Presents a systematic approach to troubleshooting and start-up of single- and multi-loop control loops. Focuses on how pressure, level, flow, and temperature loops operate to maintain good process control systems. Prerequisite: ELT100 or ELT131; MT101 and MT211; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

MT216 Statistical Process Control
2 class hr/wk, 2 cr.
Introduces the fundamentals of Statistical Process Control (SPC) as applied to modern factory production processes. Reviews basic statistical measurements and how factory decisions are made. Sp, Offered as needed

MT221 Fluid and Vacuum Systems
3 class and 3 lab hr/wk, 4 cr.
Covers theory, operation and application of hydraulic, pneumatic and vacuum systems. Includes operation, diagnosis, service, maintenance and repair of components and systems. Offered as needed
MT223 High Vacuum Technology
3 class hr/wk, 3 cr.
Explains high vacuum concepts, theory, and the various types of vacuum systems. Subjects include vacuum pumps, seals, gauges, valves, power supplies, leak detecting equipment, and related hardware. Covers the set-up, operation, troubleshooting and monitoring of vacuum systems. **Prerequisite:** MTH070 with a grade of C or better; or consent of instructor. **Offered as needed**

MT227A Pneumatics and Hydraulics Fundamentals
2 class and 3 lab hr/wk, 3 cr.
Covers theory, operation and application of pneumatic and hydraulic systems. Includes diagnosis, service, maintenance repair of pneumatic components and systems. **Prerequisite:** ELT100 or ELT131; and MT212; or consent of instructor. **Offered as needed**

MT231 Programmable Logic Controllers 1
2 class and 3 lab hr/wk, 3 cr.
Covers the operation, maintenance, or purchase of automated equipment. Introduces the theory of operation of Programmable Logic Controllers and how they are integrated and function in an automated system. Focuses on configuration, programming, and installation of Programmable Logic Controllers within a factory setting. **Prerequisite:** ELT100 or ELT131; and MT212; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **Offered as needed**

MT232 Programmable Logic Controllers 2
1 class and 3 lab hr/wk, 2 cr.
Offers advanced PLC configuration, including networking, analog systems, advanced instruction set features, PLC to PLC communications, diagnostics, modem and internet connections. Also covers remote I/O, Ethernet, motion control and practical tips on designing, implementing and testing industrial based networks and how to apply them securely and reliably in an industrial environment. Includes the functions and purposes of the elements used to create and protect an industrial network including switches, routers, firewalls and intrusion detection/prevention systems. **Prerequisite:** ELT100 or ELT131; and MT231; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **Offered as needed**

MT235 Human Machine Interfaces
1 class and 2 lab hr/wk, 2 cr.
Examines the human-machine interface (HMI), the software application that permits operators to visualize the process. Provides an introduction to the primary aspects of HMI configuration, including best practices in information presentation for process equipment, text, numbers, historical trends, and alarm information. Presents related on-demand information, including reports and links out to other documents. **Prerequisite:** MT211 and MT231, each with a grade of C or better; or consent of instructor. **Offered as needed**

MT241 System Calibration and Standards
1 class and 2 lab hr/wk, 2 cr.
Presents the why's and how's for organizing, modifying, and improving the operation of industrial calibration and repair. Covers examination of the standards and criteria for evaluating a process control system or proposed laboratory. Offers a combination of practical information and hands-on experience, covering proper installation, calibration, and maintenance of electronic instruments. Builds on the characteristics of electronic control systems, including techniques for installing electronic instruments; and procedures for configuring and calibrating transmitters, transducers, and controllers in process control systems. **Prerequisite:** ELT100 or ELT131; and MT215; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **Offered as needed**

MT260 Factory Floor Networks
3 class hr/wk, 3 cr.
Introduces the fundamentals of industrial networks on the factory floor for the connection of programmable logic controllers and other industrial appliances together. Explains the various needs for specific network protocols in a harsh environment, low-latency, and safety-driven facilities. Covers current, potential future, and legacy networks, and interconnections of those systems, as well as safety awareness of factory floor personnel. **W, Offered as needed**

MT281 Process Control Practicum 1
1 6 lab hr/wk, 2 cr.
Provides related on-the-job experience with area employers, under instructional oversight. Utilizes supervised industrial experience to develop basic process control procedures, including equipment scheduling, documentation, and process management at local industry partners. Successful completion of the first year of the Process Control program or proof of technical proficiency. **Prerequisite:** MT101 (or concurrent enrollment); second-year standing in the Process Control Technology program; or proof of technical proficiency as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **Offered as needed**

MT283 Process Control Practicum 3
1 6 lab hr/wk, 4 cr.
Provides on-the-job experience with area employers, under instructional oversight. Utilizes limited supervised industrial experience to develop advanced process control procedures, including equipment scheduling, equipment calibrations, process charting, and factory management with local industry partners. **Prerequisite:** MT282 with a grade of C or better; or consent of instructor. **Offered as needed**

MT291 Robotic Capstone Preparation
1 1 class hr/wk, 1 cr.
Provides fundamental and working knowledge of planning and managing a material-based or infrastructure project from conception to finished product. Students will develop a plan for managing capstone project. **Prerequisite:** ELT121, WR227, and MT232; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **W, Offered as needed**

MT292 Robotic Capstone
2 6 lab hr/wk, 6 cr.
Focuses on the development of an advanced robotic control system within a supervised industrial robotic environment. **Prerequisite:** MT291 with a grade of C or better; or consent of instructor. **Sp, Offered as needed**
Mathematics

MTH052 Intro to Algebra/Geometry
3 class hr/wk, 3 cr.
Introduces basic algebraic, geometric, and two-dimensional graphing techniques and applications. The course is designed primarily for students in specific vocational or technical programs. Prerequisite: Placement into MTH052; or completion of MTH020 with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. F, W, Sp, Su

MTH053 Intro to Trigonometry/Geometry
3 class hr/wk, 3 cr.
Introduces basic trigonometric and geometric techniques beyond those covered in MTH052 as well as applications of these techniques. Includes Pythagorean theorem, similar triangles, volumes of common geometric figures, and right and oblique triangle trigonometry. Prerequisite: MTH052 with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. F, W, Sp, Su

MTH060 Introductory Algebra
4 class hr/wk, 4 cr.
Gives students with no algebra background a strong, fundamental background in beginning algebra. Covers signed numbers, elementary algebraic expression manipulation and equation solving. Describes concepts using verbal, numerical, graphic, and symbolic forms. Scientific calculator required. Prerequisite: Placement into MTH060; or equivalent course as determined by instructor; or consent of instructor. F, W, Sp, Su

MTH070 Elementary Algebra
4 class hr/wk, 4 cr.
Covers linear equations, linear systems, linear inequalities and quadratic equations in verbal, numerical, graphical, and symbolic forms. Also covers negative exponents, scientific notation and dimensional analysis. Explores topics using a graphic calculator as well as traditional approaches. Prerequisite: Placement into MTH070; or completion of MTH060 with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. F, W, Sp, Su

MTH075 Applied Geometry
1 class hr/wk, 1 cr.
Covers the basic concepts of points, lines, planes, angles, triangles, congruence, similarity and polygons, all from an intuitive point of view. Uses applied problems involving these concepts. Offers an individualized course that may be started and completed at any time during the term. Prerequisite: Placement into MTH070; or completion of MTH060 with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. F, W, Sp, Su

MTH076 Applied Geometry
1 class hr/wk, 1 cr.
Provides basic concepts of perimeter, circumference, area, length, central and inscribed angles, areas of polygons, areas of circles and sectors, surface area of solids, and volumes of various solids. Includes applied problems involving these figures. Offers individualized course that may be started and completed any time during the term. Prerequisite: MTH075 with a grade of C or better; or equivalent course as determined by instructor; or consent of instructor. F, W, Sp, Su

MTH078 Applied Trigonometry
1 class hr/wk, 1 cr.
Presents basic concepts of perimeter, circumference, arc length, central and inscribed angles, areas of polygons, areas of circles and sectors, surface area of solids, and volumes of various solids. Includes applied problems involving these concepts. Offers individualized course that may be started and completed at any time during the term. Prerequisite: MTH070, MTH075, and MTH076, or equivalent courses as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

MTH079 Applied Trigonometry
1 class hr/wk, 1 cr.
Covers trigonometric ratios of sine, cosine and tangent and how they apply to right triangles. Includes applications involving right triangles. Reviews the concepts of angles, triangle similarity, and the Pythagorean theorem. Offers an individualized course that may be started and completed at any time during the term. Prerequisite: MTH070, MTH075, and MTH076, or equivalent courses as determined by instructor; or consent of instructor. F, W, Sp, Su

MTH081 Technical Mathematics 1
4 class hr/wk, 4 cr.
Offers the first course of a two-term technical mathematics sequence designed to meet the needs of technology students from various disciplines and lay the groundwork for applying mathematical concepts and problem solving in the technical fields of engineering, drafting, mechanical design, forestry and electronics. Covers fundamental algebra concepts, graphing, ratio, proportions and variation, basic right angle trigonometry, statistics and empirical methods, operations with linear, quadratic and rational expressions, solutions of linear, quadratic and rational equations. Emphasizes using mathematics and technology to solve applied problems. Prerequisite: MTH070 with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. Offered as needed

MTH082 Technical Mathematics 2
4 class hr/wk, 4 cr.
Offers the second course of a two-term technical mathematics sequence designed to meet the needs of technology students from various disciplines and provide the mathematical skills for solving applied problems in the technical fields of engineering, drafting, mechanical design, forestry and electronics. Covers trigonometric functions, oblique triangles, vectors, solutions of trigonometric equations and graphing of trigonometric functions, exponents and radicals, complex numbers, logarithmic and exponential functions and their applications. Prerequisite: MTH081 with a grade of C or better; or consent of instructor. Offered as needed

MTH095 Intermediate Algebra
4 class hr/wk, 4 cr.
Introduces the study of functions with a focus on linear (including arithmetic sequences), quadratic (including an introduction to complex numbers), and exponential functions (including geometric sequences). Also covers converting rates using dimensional analysis. Uses a variety of methods including logarithms to solve equations. Explores topics using a graphing calculator (required) as well as traditional approaches. Prerequisite: Placement into MTH095 or higher; or completion of MTH070 with a grade of C or better; or equivalent course as determined by instructor; or consent of instructor. F, W, Sp, Su

MTH097 Technical Mathematics 1
4 class hr/wk, 4 cr.
Offers the first course of a two-term technical mathematics sequence designed to meet the needs of technology students from various disciplines and lay the groundwork for applying mathematical concepts and problem solving in the technical fields of engineering, drafting, mechanical design, forestry and electronics. Covers fundamental algebra concepts, graphing, ratio, proportions and variation, basic right angle trigonometry, statistics and empirical methods, operations with linear, quadratic and rational expressions, solutions of linear, quadratic and rational equations. Emphasizes using mathematics and technology to solve applied problems. Prerequisite: MTH070 with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. Offered as needed

MTH098 Technical Mathematics 2
4 class hr/wk, 4 cr.
Offers the second course of a two-term technical mathematics sequence designed to meet the needs of technology students from various disciplines and provide the mathematical skills for solving applied problems in the technical fields of engineering, drafting, mechanical design, forestry and electronics. Covers trigonometric functions, oblique triangles, vectors, solutions of trigonometric equations and graphing of trigonometric functions, exponents and radicals, complex numbers, logarithmic and exponential functions and their applications. Prerequisite: MTH097 with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. Offered as needed
MTH098 Quantitative Literacy 5 class hr/wk, 5 cr.
An intensive study of the quantitative, algebraic, and problem-solving skills necessary to be successful in non-mathematical fields of study. Focuses on developing mathematical maturity through problem solving, critical thinking, and communicating about mathematics. Integrates numeracy, proportional reasoning, algebraic reasoning, and functions through Cooperative Learning Experience. Prerequisite: Placement into MTH070; or completion of MTH060 with a grade of C or better, or equivalent course as determined by instructor. F, W, Su

MTH105 Math in Society 4 class hr/wk, 4 cr.
Provides a solid foundation in quantitative reasoning, symbolic reasoning, and problem solving techniques needed to be a productive, contributing citizen in the 21st century. Designed for liberal arts and humanities majors. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH105 (or higher), or completion of MTH095 (or higher); or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Su

MTH111 College Algebra 5 class hr/wk, 5 cr.
Studies functions and related inequalities using a graphing calculator. Focuses on polynomial, rational, exponential, logarithmic, and related piecewise defined functions. Includes a study of the complex number system, the algebra of functions, the applications of functions in sequences and series. High-order linear systems will be solved using a calculator. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH111 (or higher), or completion of MTH095 (or higher) or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

MTH112 Trigonometry 5 class hr/wk, 5 cr.
A pre-calculus course covering trigonometric functions, conic sections, vectors, parametric equations, and polar coordinates, with emphasis on applications and graphing calculators. Recommended: High School Geometry or MTH075. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH112 (higher), or completion of MTH111 (or higher) or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

MTH211 Elementary Mathematics 1 4 class hr/wk, 4 cr.
Introduces the first course of a three-course mathematics sequence designed for liberal arts students, especially prospective elementary teachers. Emphasizes problem solving and covers basic concepts about whole numbers, integers, sets, and number theory. Uses manipulatives to deepen understanding. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH111 (or higher); or completion of MTH095 (or higher) or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W

MTH212 Elementary Mathematics 2 4 class hr/wk, 4 cr.
Offers the second course of a mathematics sequence designed for prospective elementary education teachers. Covers basic concepts about rational numbers, real numbers, statistics, and probability. Uses manipulatives to deepen conceptual understanding. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH211 (or higher) or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, Sp

MTH213 Elementary Mathematics 3 4 class hr/wk, 4 cr.
Presents the third course in a mathematics sequence designed for prospective elementary education teachers. Covers topics in geometry. Utilizes computer programs and manipulatives to deepen conceptual understanding. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH212 (or higher) or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, Sp

MTH231 Discrete Mathematics 1 4 class hr/wk, 4 cr.
Introduces elementary logic and set theory, relations, proofs, contradiction, contraposition, mathematical induction, elementary combinatorics, recurrence, basic graph theory and minimal spanning trees. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH112 (or higher), or completion of MTH111 (or higher); or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, Sp

MTH232 Discrete Mathematics 2 4 class hr/wk, 4 cr.
Topics in Functions, Number Theory, Elementary Group Theory. Applications in public key cryptography. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH231 or higher with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed by a grade of C or better.) Offered as needed

MTH241 Elementary Calculus 4 class hr/wk, 4 cr.
Emphasizes techniques of calculus in applied problem solving. A one-term terminal course with an intuitive approach to differential and integral calculus. Intended for non-math majors. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH241 (or higher), or completion of MTH111 (or higher) or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp

MTH243 Probability and Statistics 1 4 class hr/wk, 4 cr.
Introduces descriptive statistics. Covers data analysis, regression and correlation, counting and probability, common probability distributions, sampling, confidence intervals, and one-sample hypothesis testing. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH243 (or higher), or completion of MTH105 (or higher) or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

MTH244 Probability and Statistics 2 4 class hr/wk, 4 cr.
Offers a second course open to all majors covering testing two-sample problems, linear regression and correlation, chi-squared goodness of fit tests, one-way and two-way analysis of variance. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH243 (or higher) or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp
MTH251 Differential Calculus
5 class hr/wk, 5 cr.
Prepares students for further study in mathematics, sciences, engineering, and other technical areas. Covers limits, continuity rates of change, and derivatives with applications. Introduces the indefinite integral. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH251 (or higher), or completion of MTH112 (or higher) or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

MTH252 Integral Calculus
5 class hr/wk, 5 cr.
Covers the development of definite and indefinite integrals, the fundamental theorem of calculus, applications of integrals, constructing functions from their rates of change, and techniques of integration. Introduces differential equations. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH251 (or higher) or equivalent course as determined by the instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

MTH253 Series Calculus and Linear Algebra
5 class hr/wk, 5 cr.
Combines topics from linear algebra and infinite series. Includes geometric, Taylor and Fourier series work with applications; and systems applications using matrices and determinants. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH251 (or higher) or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, Sp, Su, Offered as needed

MTH254 Vector Calculus 1
5 class hr/wk, 5 cr.
Explores functions of many variables such as curves and surfaces in three-dimensional space, vectors, rates of change of functions of several variables, and optimization in multivariable models. Also explores multivariable integration with spherical and cylindrical coordinates. Offers the first of two courses in multivariable calculus. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH252 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, Sp, Su, Offered as needed

MTH255 Vector Calculus 2
4 class hr/wk, 4 cr.
Explores vector fields, motion in space, Green’s Theorem, Stokes’ Theorem, the Divergence Theorem, surface areas, and line and surface integrals along with their related topics including divergence, curl, and flux. Offers the second course in multivariable calculus. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH254 (or higher) or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

MTH256 Applied Differential Equations
4 class hr/wk, 4 cr.
Covers solutions of linear and first-order non-linear differential equations. Includes Laplace transforms and convolutions. Graphing calculator required. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH254 or MTH255 or equivalent course as determined by instructor; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

Music Performance
See also MUS-Music

MUP100A Applied Piano Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the piano, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the piano; interpretation; and performance techniques. Offered as needed

MUP100B Applied Violin Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the violin, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the violin; interpretation; and performance techniques. Offered as needed

MUP100C Applied Viola Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the viola, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the viola; interpretation; and performance techniques. Offered as needed

MUP100D Applied Cello Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the cello, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the cello; interpretation; and performance techniques. Offered as needed

MUP100E Applied String Bass Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the string bass, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the string bass; interpretation; and performance techniques. Offered as needed

MUP100F Applied Flute Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the flute, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the flute; interpretation; and performance techniques. Offered as needed

MUP100G Applied Oboe Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the oboe, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the oboe; interpretation; and performance techniques. Offered as needed

MUP100H Applied Clarinet Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the clarinet, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the clarinet; interpretation; and performance techniques. Offered as needed

MUP100I Applied Saxophone Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the saxophone, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the saxophone; interpretation; and performance techniques. Offered as needed

MUP100J Applied Bassoon Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the bassoon, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the bassoon; interpretation; and performance techniques. Offered as needed

MUP100K Applied Trumpet Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the trumpet, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the trumpet; interpretation; and performance techniques. Offered as needed
MUP100L Applied French Horn Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the french horn, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the french horn; interpretation; and performance techniques. Offered as needed

MUP100M Applied Trombone Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the trombone, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the trombone; interpretation; and performance techniques. Offered as needed

MUP100N Applied Euphonium Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the euphonium, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the euphonium; interpretation; and performance techniques. Offered as needed

MUP100O Applied Tuba Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the tuba, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the tuba; interpretation; and performance techniques. Offered as needed

MUP100P Applied Percussion Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the percussion, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the percussion; interpretation; and performance techniques. Offered as needed

MUP100Q Applied Ukulele Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the ukulele, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the ukulele; interpretation; and performance techniques. Offered as needed

MUP100R Applied Conducting Lessons
1 class hr/wk, 1 cr.
Provides instruction in the basics of conducting, including the fundamentals of music, reading, and theory; basic conducting patterns; score study and preparation; beneficial practice habits. Offered as needed

MUP100S Applied Composition Lessons
1 class hr/wk, 1 cr.
Covers methods for exploring musical composition techniques and technologies, including the creative process, hand-written notation, computer notation, Digital Audio Workstation (DAW), music business, orchestration, score study, and analysis. Offered as needed

MUP100T Applied Harp Lessons
1 class hr/wk, 1 cr.
Covers pedagogy of the harp, including the fundamentals of music, reading, and theory; beneficial practice habits; repertoire for the harp; interpretation; and performance techniques. Offered as needed

MUP102 Concert Band
3 lab hr/wk, 1 cr.
Offers an instrumental experience that focuses on performing standard concert band literature of many styles. Emphasizes ensemble skills and musicality in various band performance practices. Offered as needed

MUP106 String Orchestra
3 lab hr/wk, 1 cr.
Offers an introductory instrumental experience that focuses on performing standard string ensemble literature of many styles. Emphasizes beginning ensemble skills and musicality in various strings performance practices. Offered as needed

MUP107 Voice
1 class hr/wk, 1 cr.
Gives individual instruction in fundamentals of theory, melodic contouring and phrasing, vocal production, and body mechanics incorporated into basic singing skills and music reading. Open to students of all levels and interests. F, W, Sp

MUP108 Concert Choir
3 lab hr/wk, 1 cr.
Offers singing in a non-auditioned mixed voice (soprano, alto, tenor, bass) choir. Includes instruction in proper singing habits, basic musical terms and expressions, rehearsal technique, and exposure to a wide variety of music literature, culminating in a final performance. Recommended: Previous experience singing with a school, community, or church choir. Prerequisite: Consent of instructor. F, W, Sp

Music
See also MUP-Music Performance

MUS100 Music Fundamentals
3 class hr/wk, 3 cr.
Covers the basics of music, including pitch, rhythm, notation, intervals, scales, harmony, the keyboard, key signatures, the circle of fifths, and triads. Develops basic aural skills through listening, singing, and clapping. Intended for non-music majors and students with little or no experience in music. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

MUS105 History of Rock and Roll
3 class hr/wk, 3 cr.
Examines the relationship between rock music and society, and emphasizes the musical and lyrical significance of rock music as contemporary social commentary. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

MUS111 Music Theory 1
2 class and 2 lab hr/wk, 3 cr.
Introduces Western European music practices, including fundamentals of music notation, terminology, analysis, sight-singing, and listening. Covers clefs, intervals, scales, modes, circle of fifths, triads, and more. Emphasizes terminology and basic musical concepts. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F
MUS112 Music Theory 2
2 class and 2 lab hr/wk, 3 cr.
Focuses on the detailed exploration of Western European music practices, including music notation, terminology, analysis, sight-singing, aural dictation, part-writing, and aural analysis. Covers clefs, intervals, scales, modes, circle of fifths, triads, and more. Emphasizes terminology and basic musical concepts. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MUS111; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **W**

MUS113 Music Theory 3
2 class and 2 lab hr/wk, 3 cr.
Continues detailed exploration of Western European music practices, including music notation, terminology, analysis, and four-part writing. Introduces advanced musical practices including figured bass realization, harmonic progressions, modulation, cadences, transposition, and form. Emphasizes advanced terminology and compositional concepts. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MUS112 within the year; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **W**

MUS114 Aural Skills 1
1 class and 2 lab hr/wk, 2 cr.
Provides instruction in the fundamental concepts of common-practice period melody, harmony, and rhythm and provides practice in ear training, including but not limited to sight-singing, melodic and rhythmic dictation, and intervallic recognition. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. **F, W, Sp, Su**

MUS115 Aural Skills 2
1 class and 2 lab hr/wk, 2 cr.
Provides continued instruction in introductory concepts of common-practice period melody, harmony, and rhythm and provides practice in ear training, including but not limited to sight-singing, melodic, harmonic and rhythmic dictation, and intervallic recognition. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. **W**

MUS116 Aural Skills 3
1 class and 2 lab hr/wk, 2 cr.
Provides instruction in the fundamental concepts of common-practice period melody, harmony, and rhythm and provides practice in ear training, including but not limited to sight-singing, melodic and rhythmic dictation, and intervallic recognition. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MUS115; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **W**

MUS117 Aural Skills 4
1 class and 2 lab hr/wk, 2 cr.
Provides instruction in advanced concepts of common-practice period melody, harmony, and rhythm and provides practice in ear training, including but not limited to sight-singing, melodic, harmonic and rhythmic dictation, and intervallic recognition. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MUS116; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **W**

MUS118 Aural Skills 5
1 class and 2 lab hr/wk, 2 cr.
Provides instruction in the detailed exploration of Western European music practices, including music notation, terminology, analysis, and four-part writing. Introduces advanced musical practices including figured bass realization, harmonic progressions, modulation, cadences, transposition, and form. Emphasizes advanced terminology and compositional concepts. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MUS117 within the year; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **W**

MUS119 Aural Skills 6
1 class and 2 lab hr/wk, 2 cr.
Provides instruction in the detailed exploration of Western European music practices, including music notation, terminology, analysis, and four-part writing. Introduces advanced musical practices including figured bass realization, harmonic progressions, modulation, cadences, transposition, and form. Emphasizes advanced terminology and compositional concepts. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MUS118; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **W**

MUS121 Music Theory 4
2 class and 2 lab hr/wk, 3 cr.
Expands upon the theoretical concepts introduced in the first year of Music Theory. Covers common-practice melody, harmony, and voice leading, and demonstrates their analytical and compositional uses. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MUS113; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **W**

MUS122 Music Theory 5
2 class and 2 lab hr/wk, 3 cr.
Expands upon the theoretical concepts introduced in the first year Music Theory sequence. Covers common-practice melody, harmony, and voice leading, and demonstrates their analytical and compositional uses. Includes continued analysis and part-writing, secondary dominants and secondary leading-tone chords, modulations, formal structure, mode mixture, Neapolitan chords, augmented sixth chords, extended chords, chromatic mediants, altered dominants, and enharmonic spellings and modulations. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MUS211; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **W**

MUS213 Music Theory 6
2 class and 2 lab hr/wk, 3 cr.
Expands upon the elements of common-practice harmony, and introduces late and post-Romantic techniques. Introduces concepts of post-tonal theory; and 20th and 21st century composers, styles, and techniques. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MUS211 and MUS212; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **Sp**

MUS214 Aural Skills 4
1 class and 2 lab hr/wk, 2 cr.
Provides instruction in advanced concepts of common-practice period melody, harmony, and rhythm and provides practice in ear training, including but not limited to sight-singing, melodic, harmonic and rhythmic dictation, and intervallic recognition. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MUS116; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **F**

MUS215 Aural Skills 5
1 class and 2 lab hr/wk, 2 cr.
Provides instruction in advanced concepts of Late-19th and Early-20th century western harmony, with special emphasis on advanced rhythm. Also provides practice in ear training including but not limited to sight-singing, melodic, harmonic and rhythmic dictation. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MUS214; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **W**

MUS216 Aural Skills 6
1 class and 2 lab hr/wk, 2 cr.
Provides instruction in advanced concepts of 20th century western harmony, as well as harmony of non-western music and American Vernacular music. Also provides practice in ear training including but not limited to sight-singing, melodic, harmonic and rhythmic dictation. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MUS215; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **Sp**
Network Technology
See also ELT—Electronics Technologies

NET123 Network Computer Operating Systems
3 class and 2 lab hr/wk, 4 cr.
Introduces network computer operating systems using the command line. Includes hands-on work with network computer operating systems in a structured lab environment. Prerequisite: CIS101 with a grade of C or better; or equivalent experience as determined by instructor. F, Offered as needed

NET141 Network for Small Business
3 class and 3 lab hr/wk, 4 cr.
The first course of a four part sequence teaches the skills needed to work in small-to-medium network environments. Develops entry-level skills needed by computer network technicians, cable installers, and industry network support technicians. Provides an introduction to networking and Internet connectivity, using tools and hardware commonly found in small-to-medium business and industrial networks. Lab exercises provide practical hands-on experience. Prerequisite: CIS101 with a grade of C or better; or consent of instructor. Sp, Offered as needed

NET142 Medium Business Networks
3 class and 3 lab hr/wk, 4 cr.
The second course in a four-part sequence prepares students for jobs as network technicians; develops additional skills required for computer Network Support technicians. Includes an overview of routing and remote access, addressing, and security, network servers used for email services, web space, and authenticated access. Lab exercises provide practical hands-on experience. Prerequisite: CIS101 with a grade of C or better; or consent of instructor. F, Offered as needed

NET143 Routing and Switching Systems
3 class and 3 lab hr/wk, 4 cr.
The third course in a four-part sequence familiarizes students with the equipment applications and protocols installed in enterprise networks. Focuses on switched networks, IP Telephony requirements, and security. Introduces advanced routing protocols such as Enhanced Interior Gateway Routing Protocol and Open Shortest Path First protocol. Hands-on exercises, including configuration, installation, and troubleshooting, reinforce student learning. Prerequisite: CIS101 with a grade of C or better; or consent of instructor. W, Offered as needed

NET144 Network Design and Support
3 class and 3 lab hr/wk, 4 cr.
The fourth course in the four-part sequence introduces students to network design processes using a large enterprise network and a medium-sized network. Students follow a standard design process to expand and upgrade each network, which includes requirements gathering, proof-of-concept, and project management. Lab exercises provide practical hands-on experience. Prerequisite: CIS101 with a grade of C or better; or consent of instructor. Sp, Offered as needed

NET171 Fundamentals of Wireless LANs
3 class and 4 lab hr/wk, 5 cr.
Introduces the fundamentals of wireless LANs. Focuses on the design, planning, implementation, operation, and troubleshooting. Includes a comprehensive, hands-on overview of wireless LAN technologies, security, and design best practices. Prepares students to achieve the Cisco Wireless LAN Support Specialist designation. Prerequisite: NET142 with a grade of C or better; or equivalent experience; or consent of instructor. Offered as needed

NET261 Fundamentals of Network Security
3 class and 4 lab hr/wk, 5 cr.
Explains network security processes and equipment with a hands-on emphasis. Covers security policy design and management; security technologies, solutions, and products; security appliance firewalls and secure router design; and AAA and VPN implementation. Intended for people currently employed in the computer industry or computer technology instructors. Prerequisite: NET154 with a grade of C or better; or current CCNA certification; or consent of instructor. W, Offered as needed

NET271 IP Telephony
3 class and 3 lab hr/wk, 4 cr.
Introduces Cisco IP Telephony, a converged voice and data network. Includes the challenges faced by these different technologies. Covers Voice over IP and Quality of Service concepts as they apply to the Cisco CallManager Express environment. Offered as needed

Nutrition and Food Management

NFM225 Nutrition
4 class hr/wk, 4 cr.
Covers nutrients, their sources and body utilization to promote optimum health. Includes development of eating patterns, current dietary trends, nutrition information in mass media, and current national and international problems. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

NFM240 Nutrition in the Lifecycle
3 class hr/wk, 3 cr.
Understand how nutrition impacts key life stages from pregnancy through old age. Explore how lifestyle factors play an important role in nutritional requirements at different life stages. Offered as needed

Nursing

NUR106 Fundamentals of Nursing
5 class and 12 lab hr/wk, 9 cr.
Presents concepts and skills that lay a foundation for socialization into the nursing profession. Provides opportunities to attain the knowledge, skills, and attitudes that are necessary to promote health, prevent disease, and deliver basic nursing care to individual patients across the lifespan. Prerequisite: Admission to the Nursing program; and completion of BI232 and MTH095 (or higher), each with a grade of C or better. Corequisite: BI232 (may be completed prior to enrollment). F

NUR108 Acute and Chronic Conditions 1
6 class and 12 lab hr/wk, 10 cr.
Provides opportunities to obtain the knowledge, skills, and attitudes necessary to implement the roles of a practical nurse in providing care in long term care and acute care settings across the lifespan. Focuses on theoretical concepts of the care of individual patients with acute and chronic conditions. Prerequisite: NUR106 with a grade of C or better. Corequisite: BI233 (may be completed prior to enrollment). W

NUR109 Acute and Chronic Conditions 2
5 class and 15 lab hr/wk, 10 cr.
Provides opportunities to obtain the knowledge, skills, and attitudes necessary to implement the roles of a practical nurse in providing care to patients across the lifespan. Focuses on the care of individual patients with acute or chronic conditions. Prerequisite: NUR108 with a grade of C or better. Corequisite: CIST101 (may be completed prior to enrollment). Sp
NUR150 Introduction to Advanced Wound Care
1 class hr/wk, 1 cr.
Introduces the principle of advanced wound care, including assessment, development of a plan of care, and coordination of care with the health care team. Emphasizes evidence-based practices in wound care including current standards of practice.
Prerequisite: Current nursing student; or current licensure as a LPN or RN. W, Offered as needed

NUR171 Strategies for Success in the Nursing Program
1 class hr/wk, 1 cr.
Reinforces the basic skills that are built on in the nursing curriculum. Includes a review of the Nursing program, study skills, coping strategies, testing, the nursing process, medical terminology, documentation, lab and diagnostic testing, pharmacology, and simulation. Takes a hands-on approach to learning through application of concepts within the Nursing Program. Corequisite: NUR106. F

NUR206 Complex Health Problems
6 class and 15 lab hr/wk, 11 cr.
Provides the foundation for practice as an associate degree registered nurse. Builds on the curriculum of the first year of the Nursing program and socializes students into the nursing roles at the registered nurse level of responsibility. Provides opportunities to learn and apply the knowledge, skills, and attitudes necessary to implement these roles in giving care to clients/patients. Theoretical concepts focus on the care of patients with complex physical and mental health problems. Prerequisite: NUR109 with a grade of C or better. Corequisite: PSY201 (may be completed prior to enrollment). F

NUR208 Care in Urgent and Community Settings
5 class and 15 lab hr/wk, 10 cr.
Provides students with opportunities to learn and to apply the knowledge, skills, and attitudes necessary to implement the roles of an associate degree registered nurse in a variety of settings. Theoretical concepts focus on the care of patients experiencing a health-related crisis such as a critical illness, an acute exacerbation of a chronic illness, or an end-stage disease. Students will also have the opportunity to gain knowledge and explore nursing practice in community-based settings. Prerequisite: NUR206 with a grade of C or better. Corequisite: PSY237 (may be completed prior to enrollment). W

NUR209 Entry into Practice
3 class and 15 lab hr/wk, 8 cr.
Provides students with opportunities to demonstrate mastery of the knowledge, skills, and attitudes inherent in the beginning practice roles of an associate degree registered nurse. Theoretical concepts focus on the first-level management skills necessary for providing nursing care to groups of patients in a variety of settings. As the culmination of the Nursing program clinical sequence, NUR209 incorporates a clinical preceptorship during which students demonstrate achievement of program outcomes. Prerequisite: NUR208 with a grade of C or better. Corequisite: WR121 (may be completed prior to enrollment). Sp

NUR261 Transitions to Long Term Care
2 class hr/wk, 2 cr.
Prepares nursing students and new nurses for transition into leadership roles, primarily in long term care settings. Gains knowledge and skills to successfully prepare for the responsibilities to work as a beginning LPN or RN in this setting. Prerequisite: NUR109 with a grade of C or better (or concurrent enrollment); or current licensure as an LPN or RN. Offered as needed

NUR272 Pathophysiology for Nurses
3 class hr/wk, 3 cr.
Applies anatomy and physiology concepts to examine alterations of human function. Explores major pathophysiological concepts using a body systems approach. Uses theories relating etiology, pathogenesis, and clinical manifestations to study common health problems. Prerequisite: BI231, BI232, and BI233; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better). Sp

NUR275 Occupational Skills Training
See Skills Training

Physical Education
PE185AA, AB, AC Sports Conditioning—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Offers a conditioning program to improve sports skills and specific athletic activities. Improves fitness, speed, balance, core conditioning, and coordination with various protocols including plyometric, agility, games, strength, and conditioning exercises. F, W, Sp

PE185BG Baseball—Advanced
3 lab hr/wk, 1 cr.
Introduces students to the fundamentals of baseball. F, W
PE185DJ, DK, DL Dance: Modern—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Studies a variety of styles within the modern dance realm. Introduces the concepts of space, time, and force and explores how each of these elements plays a part in movement and dance technique. Focuses on correct alignment and efficient and proper use of the body, and includes axial and locomotor movement. Incorporates increased flexibility, coordination, balance, and muscular strength in warm-up and cool-down periods. Offered as needed

PE185DM, DN, DO Group Exercise—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Increases cardiovascular endurance, muscular strength and endurance or flexibility, and overall health. Incorporates a combination of step, cardio kickboxing or dance routines, strengthening exercises, Pilates and/or stretching activities. Supports incorporating exercise into a lifestyle. F, W, Sp, Su

PE185DR, DS, DT Ballroom Dance—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Prepares students to perform basic dance steps and common variations of the Swing, Foxtrot, Waltz and Cha-Cha. Beginning class covers basics. Intermediate and advanced classes cover progressively more difficult variations. Offered as needed

PE185ES – Emergency Service Tactical Athlete
3 lab hr/wk, 1 cr.
Focuses on fitness demands specific to emergency service personnel. Includes Information on proper warm-ups, exercise principles, circuit and strength training concepts, and exercise formats that utilize minimal setup or gear for continued fitness development, safety, risk management, and leadership. Includes field sessions. Offered as needed

PE185FA, FB, FC Soccer—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Provides a group setting and instruction for conditioning and participation in the fundamental skills of soccer. F, W, Sp

PE185FT, FU, FV Cardio and Core Fitness — Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Introduces cardio conditioning to improve fitness, health, and overall wellness through structured group fitness classes. Covers knowledge and skills needed to perform safe and proper group and individual fitness exercises. Activities promote and emphasize improved cardiorespiratory conditioning as well as muscle strength and endurance, flexibility, and body composition, and Skills to help students incorporate exercise into their lifestyle. F, W, Sp, Su

PE185GA, GB, GC Golf—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Offers training for the beginning to advanced golfer. Emphasizes the development of basic swing fundamentals. Covers proper golf etiquette, rules, and playing procedures. F, Sp, Su

PE185JJ, JK, JL Jogging—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Covers basic warm-ups to develop flexibility and isolations. Begins with terminology and movement and builds to combinations. Emphasizes technique, alignment, strength, coordination, and contemporary jazz dance with varying levels of difficulty. F, W, Sp

PE185KA, KB, KC Karate—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Covers the fundamentals of basic rock climbing including equipment, a range of climbing techniques, knots, belaying, and basic anchor use. Emphasizes skill development, safety, risk management, and leadership. Includes field sessions. Offered as needed

PE185PA, PB, PC Personal Defense—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Introduces fundamental downhill skiing techniques through instruction and skill application. W

PE185PD, PE, PF Pilates—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Emphasizes proper technique and mindfulness through exercises that target the core muscles, including the abdominal, back, hip, pelvis, and lateral trunk muscles. Promotes improved flexibility, muscle endurance, breath, and body awareness. Presents techniques to improve fitness, health, and overall wellness, as well as skills to help students incorporate exercise into their lifestyle. F, W, Sp, Su

PE185SA, SB, SC Scuba Diving—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Introduces the water environment, regulation, personal safety and the basic principles of scuba diving. Develops physical, social, emotional, nutritional, and stress management skills, and environmental sensitivity related to wellness. F, W, Sp, Su

PE185SS, SW, SX Swim for Fitness—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Develops cardiovascular endurance through swimming. Covers stroke technique, interval training and lap swimming. Prerequisite: PE185SS with a grade of C or better; or consent of instructor. F, W, Sp

PE185SD, SE, SF Cardio and Core Fitness — Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Introduces cardio conditioning to improve fitness, health, and overall wellness through structured group fitness classes. Covers knowledge and skills needed to perform safe and proper group and individual fitness exercises. Activities promote and emphasize improved cardiorespiratory conditioning as well as muscle strength and endurance, flexibility, and body composition, and Skills to help students incorporate exercise into their lifestyle. F, W, Sp, Su
PE185SN, SP, SQ Salsa Dancing—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Prepares students to perform, dance, and understand the culture behind the music. Introduces steps, turns, and combinations. F, W, Sp

PE185TO, TP, TQ Total Body Training—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Incorporates cardio and strength segments to help students achieve a higher level of conditioning. Utilizes a combination of exercise techniques and formats, including cardio endurance training, interval training, calisthenics, plyometric training, body weight training, strength training, functional training, and flexibility exercises. To improve cardiorespiratory endurance, muscular strength and endurance, flexibility and overall health. F, W, Sp, Su

PE185UA, UB, UC Ultimate Games—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Offers a high level fitness and recreation program through participation in various sports and group games. May improve some or all of the areas of physical fitness, including cardiovascular, muscular, body composition, and flexibility. Games may include Ultimate Frisbee, Soccer, Flag Football, Volleyball, Basketball, European Handball, or other. Offered as needed

PE185VF, VG, VH Yoga—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Introduces Hatha physical yoga. Includes the background, safety precautions and value of yoga. Emphasizes stretching postures (asana), proper breathing techniques and stress reduction. F, W, Sp, Su

PE185WW White Water Kayaking—Beginning
3 lab hr/wk, 1 cr.
Covers the fundamentals for participation in kayaking in the river environment. Includes safety in the outdoors and around the water, hypothermia, reading currents and water hydrology, techniques of paddling and rowing, equipment, and physical conditioning. Offered as needed

PE185WD, WE, WF Strength—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Focuses on developing and executing a strength and conditioning program to meet individual goals. F, W, Sp, Su

PE185WK, WL, WM Walking Fitness—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Develop and participate in a walking plan to gain and maintain cardio-respiratory fitness. F, W, Sp

PE185WN, WO, WP Water Exercise—Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Includes warm-up, stretching, strength, cardiorespiratory activity, and cool down to improve flexibility, muscular strength, endurance and cardiovascular fitness. Incorporates education about basic fitness components as they apply to exercise in the water and emphasizes safe exercise. Intended for non-swimmers and swimmers. Offered as needed
PE194RA
Racquetball—Professional
1 class and 2 lab hr/wk, 2 cr.
Designed to teach Health and Human Performance majors how to instruct racquetball. Includes skill progressions, racquetball and conditioning knowledge, successful application, strategy, practice, conditioning, rules interpretation, and teaching and coaching techniques. Offered as needed

PE194TF Tennis—Professional
1 class and 2 lab hr/wk, 2 cr.
Provides a foundation for students to progress into a role of a tennis coach. Offered as needed

PE266 Basketball Coaching Theory
2 class hr/wk, 2 cr.
Develops an understanding of basketball coaching. Covers the fundamentals of organizing a basketball program, strategies and techniques of coaching, leadership, and interpersonal communication to build knowledge and skills of successful coaching.
Recommended: PE185BJ, BK, and BL.

PE294FD Professional Activities—Soccer
1 class and 2 lab hr/wk, 2 cr.
Designed to prepare students how to teach or coach soccer. Class time will be spent on discussions and practical application of basic soccer skills, rules and regulations, strategy, and coaching techniques. Students will apply the information during class physical participation, as well as practice teaching and coaching situations.
Prerequisite: PE185FD with a grade of C or better; or instructor consent.

PE294VP Professional Activities—Volleyball
1 class and 2 lab hr/wk, 2 cr.
Covers skill progressions, knowledge, strategy, practice, and conditioning; rules interpretation; and teaching and coaching techniques, and wellness in the areas of physical, student support systems, social, emotional, nutrition and stress management.
Prerequisite: PE185VJ, PE185VK, or PE185VL; or consent of instructor.

PE294VP Professional Activities—Weight Training
1 class and 2 lab hr/wk, 2 cr.
Provides a basic foundation for students to progress into the role of a personal trainer, teacher, or strength coach. Emphasizes strength concepts, safety and prevention of injuries, practical anatomy, workout variables, effective training and coaching techniques, and program design.
Prerequisite: PE185WD with a grade of C or better; or consent of instructor. Offered as needed

PH060 Applied Physical Science
2 class and 3 lab hr/wk, 3 cr.
Covers the second term of a three-term sequence of introductory algebra-based college physics. Includes fluids, oscillations, waves, thermodynamics, and electricity.
Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of PH201 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.)

PH111 Physical Science for Fire Science and Emergency Services
3 class, 2 lab and 1 recitation hr/wk, 5 cr.
Introduces the necessary concepts and skills in physical science required to enter the fire science and paramedic programs.
Prerequisite: Placement into MTH005 (or higher, except MTH008); or completion of MTH010 (or higher, except MTH008 and MTH110) with a grade of C or better; or consent of instructor. Offered as needed

PH121 Applied Physics
3 class and 2 lab hr/wk, 4 cr.
Covers fundamental principles, concepts, and applications of work, energy, and power; basic machines; and straight line and rotary motion. Uses vectors to analyze and solve problems. Provides demonstrations and experiments to clarify physics principles and procedures. Prerequisite: Placement into MTH081 (or higher, except MTH098); or completion of MTH081 (or higher, except MTH098 and MTH105) with a grade of C or better; or consent of instructor.

PH122 Applied Physics
3 class and 2 lab hr/wk, 4 cr.
Covers applied physics including mechanics of measurement, structure of matter, heat energy, heat engines, sound, light and nuclear physics. Includes demonstrations and experiments to clarify physics principles and procedures. Prerequisite: PH121 (or higher) with a grade of C or better; or consent of instructor.

PH201 General Physics
4 class and 3 lab hr/wk, 5 cr.
Covers the first term of a three-term sequence of introductory algebra-based college physics. Includes kinematics, Newton's laws, energy, momentum, and rotation.
Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH005 (or higher, except MTH098); or completion of MTH005 (or higher, except MTH098 and MTH110); or consent of instructor. Offered as needed

PH202 General Physics
4 class and 3 lab hr/wk, 5 cr.
Covers the second term of a three-term sequence of introductory algebra-based college physics. Includes fluids, oscillations, waves, thermodynamics, and electricity.
Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of PH201 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.)

PH203 General Physics
4 class and 3 lab hr/wk, 5 cr.
Covers the third term of a three-term sequence of introductory algebra-based college physics. Includes circuits, magnetism, electromagnetic waves, and optics.
Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of PH202 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.)

PH207 Astronomy: Solar System
3 class and 3 lab hr/wk, 4 cr.
Considers Earth's coordinate system, observational astronomy, the moon and the planets, evolution of the solar system, and the sun. Examines physical properties of earth and other members of the solar system in depth.
Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH095 (or higher, except MTH098), or completion of MTH070 (or higher, except MTH098 and MTH10S); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.)

PH208 Astronomy: Stars
3 class and 3 lab hr/wk, 4 cr.
Focuses on stellar coordinates and sidereal time, the nature of light and the spectrum, and the birth and death of stars.
Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH095 (or higher, except MTH098), or completion of MTH070 (or higher, except MTH098 and MTH10S); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.)

PH209 Astronomy: Galaxies
3 class and 3 lab hr/wk, 4 cr.
Examines astronomical, optical, and radio telescopes; the galaxies; the clusters of galaxies; and the origin of the universe. Also considers the physical properties of the Milky Way Galaxy.
Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH095 (or higher, except MTH098), or completion of MTH070 (or higher, except MTH098 and MTH10S); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.)
PH211 Physics for Engineers and Scientists
4 class and 3 lab hr/wk, 5 cr.
Prepares the first term of a three-term sequence of introductory calculus-based physics. Includes kinematics, Newton’s laws, energy, momentum, rotation, and gravitation. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and placement into MTH252 (or higher); or completion of MTH251 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.)

PH212 Physics for Engineers and Scientists
4 class and 3 lab hr/wk, 5 cr.
Prepares the second term of a three-term sequence of introductory calculus-based physics. Covers fluids, oscillations, waves, thermodynamics and electricity. **Prerequisite:** Placement into WR121 (or higher); or completion of WR115 (or higher), or completion of WR090 (or higher); with a grade of C or better. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

PH213 Physics for Engineers and Scientists
4 class and 3 lab hr/wk, 5 cr.
Offers the third term of a three-term sequence of introductory calculus-based physics. Includes circuits, magnetism, and light. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of MTH252 and PH211; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

PHL203 Ethics
4 class hr/wk, 4 cr.
Uses reflective and critical reading, thinking, writing, and discussion to explore the methods and ideas of ancient and modern Ethics. Includes explanations and illustrations of the central theories of Ethics as well as close scrutiny of standard arguments supporting and critiquing these theories. Applies ethical theories to contemporary moral problems and personal dilemmas. **Recommended:** Placement into WR121 (or higher); or completion of WR115 (or higher) with a grade of C or better. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

PHL204 Critical Thinking and Logic
4 class hr/wk, 4 cr.
Develops critical thinking skills to identify reasons for believing truth claims and to assess the cogency of these reasons. Facilitates sympathetic understanding of beliefs one does not share and enables one to subject to critical scrutiny one’s own beliefs and one’s own reasons for believing. Uses logic as the technique for the rational assessment of argument. Identifies both informal and formal reasons for the success or the failure of arguments. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

PHL205 Biomedical Ethics
4 class hr/wk, 4 cr.
Covers ethical decision-making regarding health and well-being across a variety of cultural contexts, informed by the historical development of bioethics as a discipline. Investigates ethical questions triggered by contemporary developments—such as changing technology—along with those questions which have persisted since antiquity. Canvasses professional ethical codes and explicitly-stated obligations in order to identify the health care professional’s special responsibilities in arriving at decisions which often have profound consequences. **Recommended:** Placement into WR121 (or higher); or completion of WR115 (or higher) with a grade of C or better. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. **Offered as needed:** CL

PHL206 Faith, Reason and World View: Philosophy of Religion
4 class hr/wk, 4 cr.
Uses reflective and critical reading, thinking, writing, and discussion to explore the complex relationships between faith, reason, experience, religion, and worldview. Analyzes classical and contemporary texts, focusing on the nature, scope, and limits of faith and reason. Examines the major themes and arguments of the Philosophy of Religion. Considers theistic and atheistic religious and non-religious worldviews and values. Explores issues of difference, power, and responsibility in worldview as related to discrimination and fundamentalism. Examines the assumptions and convictions of worldview values and how their application benefits or harms particular groups. **Recommended:** Placement into WR121 (or higher); or completion of WR115 (or higher) with a grade of C or better. **Prerequisite:** Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp

Pharmacy Technician/Pharmacy Management

PHM101 Intro to Pharmacy Technology
1 class hr/wk, 1 cr.
Introduces the job responsibilities and knowledge and skills required of a pharmacy technician. Overviews assisting the pharmacist in collecting, organizing, and evaluating information for direct patient care. **Prerequisite:** Enrollment in the Pharmacy Technician program. F, Sp

PHM110 Pharmacy Calculations
3 class hr/wk, 3 cr.
Presents the essential mathematics concepts and skills used by a pharmacy technician to calculate medication dosages using the formula, ratio, and dimensional analysis methods. Includes medication, drug calculations, and administration; measurement of doses; drug orders; conversions; and reconstitution. Stresses the prevention of medication errors and details the implications of any error. **Prerequisite:** Second-term standing in the Pharmacy Technician program. W, Su

PHM115 Pharmacy Operations/Management
3 class hr/wk, 3 cr.
Introduces pharmacy operations as they relate to management. Includes pharmacy record maintenance, communication and customer service, inventory systems, insurance procedures, and accounts receivable methods. **Prerequisite:** Enrollment in the Pharmacy Technician program. F, Sp
PHM120 Pharmacy Operations/Laboratory
2 class and 2 lab hr/wk, 3 cr.
Covers the various controls of pharmaceutical inventory, accessing of non-compounded products, and compounding preparation of pharmaceuticals for distribution. Prerequisite: First-term standing in the Pharmacy Technician program. F, S, P

PHM130 Pharmacy Info: Law and Ethics
3 class hr/wk, 3 cr.
Focuses on collecting, organizing, screening, and evaluating information/payment and prescription documentation pertaining to the patient. Covers customer health records as well as determining counseling requirements in accordance with the laws and ethics that apply to pharmacy operations. Also stresses the management of inventory within the pharmacy. Prerequisite: Third-term standing in the Pharmacy Technician program. F, S, P

PHM150 Pharmacy Tech Practicum 21 lab hr/wk, 7 cr.
Provides pharmaceutical workplace experience in a healthcare or related setting. Prerequisite: Third-term standing in the Pharmacy Technician program. F, S, P

PHM151 Pharmacy Tech Seminar 1 1 class hr/wk, 1 cr.
Prepares students for the required national pharmacy certification examination taken upon completion of the Pharmacy Technician program. Also covers identification of potential career opportunities and job search preparation. Prerequisite: Third-term standing in the Pharmacy Technician program with a grade of C or better in all courses. F, S, P

PHM160 Hospital/Ambulatory Pharmacy Practicum 6 lab hr/wk, 2 cr.
Provides workplace experience in an ambulatory or hospital setting. Focuses on compliance with the institutions policies and procedures, use of drug dispensing systems, compounding, package and labeling of medications, processing data on electronic systems, preparing sterile products, use of proper procedures in working with controlled substances, inventory maintenance, use of technology including automated dispensing machines and recordkeeping. Prerequisite: Third-term standing in the Pharmacy Technician program. F, S, P

PHM161 Pharmacy Tech Seminar 2 11 lec hr/wk, 1 cr.
Prepares a pharmacy student for future eligibility to sit for the advanced national pharmacy certification examination (CSPT) Pharmacy Technician Management program. Coincides with the hospital externship. Prerequisite: Sixth-term standing in the Pharmacy Technician program with a grade of C or better in all courses. S, P

PHM210 Over-the-Counter (OTC) Product
2 class hr/wk, 2 cr.
Covers medications, both prescription (legend) and non-prescription OTC drugs available to pharmacy customers. W, Su

PHM215 Sterile Compound/Cytotoxic Med
2 class and 3 lab hr/wk, 3 cr.
Provides in-depth concepts of the sterility and quality assurance processes involving cytotoxic/hazardous medication products. Includes performance in accordance with the laws, regulations, and standards which govern. Prerequisite: Second-term standing in the Pharmacy Technician program. W, Su

PHM220 Multicultural Patient Healthcare
2 class hr/wk, 2 cr.
Introduces approaches to healthcare for multicultural patients. Covers aspects of western medicine as practiced in the United States. W, Su

PHM230 Pharmaceutical Drug Classifications
3 class hr/wk, 3 cr.
Covers the sources, classifications, and prototypes of drugs. Examines pharmaceutical names; routes of administration; pharmacokinetics and pharmacodynamics of xenobiotics; pathophysicsology of various systemic body systems. Studies variables that affect drug actions including contraindications and drug interactions; prescription abbreviations and interpretations; drug marketing; and drug approval processes. F, W, S, P

PHM231 Pharmacology 1
5 class hr/wk, 5 cr.
Provides a basic understanding of structure and function of certain biological systems within the human body, including the endocrine, nervous, gastrointestinal, and respiratory systems, as well as oncology principles. Presents general concepts of medication therapeutics, and the pathophysicsology regarding diseases being treated in said body systems as well as involving cellular physiology and drug transport through the cell membranes. Prerequisite/Corequisite: PHM230 with a grade of C or better; or consent of instructor. F, S, P

PHM232 Pharmacology 2
5 class hr/wk, 5 cr.
Provides a basic understanding of structure and function of certain biological systems within the human body, including the skeletal-muscle, circulatory/hematology, cardiovascular, renal, integumentary, and lymphatic/immune systems. Continues pharmacological principles which involve therapeutic medications and diseases/pathophysiology within said body systems. Prerequisite: PHM231 with a grade of C or better; or consent of instructor. W, Su

PHM233 Pharmacology 3
3 class hr/wk, 3 cr.
Provides a basic understanding of structure and function of certain biological systems within the human body, including gastrointestinal, integumentary, renal, reproductive systems, and special senses. Continues pharmacological principles involving therapeutic medications and diseases/pathophysiology affecting said body systems. Prerequisite: PHM232 with a grade of C or better; or consent of instructor. F, S, P

PHM243 Pharmacology 1 for the Anesthesia Technologist
3 class hr/wk, 3 cr.
Provides a basic understanding and principles of pharmacology and medical terminology in anesthesiology. Examines pharmaceutical terms such as pharmacokinetics/pharmacodynamics, pharmacogenetics/pharmacogenomics; a brief introduction of types of anesthesiology medications; more in depth study of the cardiovascular system medications; discussion of medication use, labeling, handling and storage; route of administrations, variables that affect drug actions including drug contraindications and drug interactions; efficacy and toxicity of xenobiotics as well as pathophysicsology of various body systems; acid-base understanding; and introduction to pharmacology mathematics. Prerequisite: MTH095 with a grade of C or better; and concurrent enrollment in ANES101, ANES112, and ANES103; or consent of instructor. F

PHM244 Pharmacology 2 for the Anesthesia Technologist
3 class hr/wk, 3 cr.
Second term of pharmacology for anesthesia technicians. Continues introduction of families and classifications of medications including nervous system, respiratory system, endocrine system, ophthalmic system, gastrointestinal system, immune system and neuromuscular system, and further discussion of aseptic including infectious diseases and antibiotics; also overview of general anesthetic which includes IV fluid physiology, emergency medications, sedation, laboratory tests and values, anaphylaxis, malignant hyperthermia, transfusions; pediatric anesthesiology, obstetric anesthesia. Prerequisite: MTH095 (or higher); and completion of PHM243 with a grade of C or better; and concurrent enrollment in ANES104 and BI234; or consent of instructor. W
Prior Learning Portfolio
PLP121 Introduction to Prior Learning Portfolio
1 class hr/wk, 1 cr.
Explores the option of receiving credit for prior learning. Focuses on relating previous learning and experience to specific programs and courses at the college. Covers writing a concise goal statement, preparing a detailed work history, and preparing a prior learning portfolio, preparing to consult with instructor/evaluators in programs offering credits based on prior learning. Recommended: WR115 or WR121, either with a grade of C or better. F, W, Sp, Su

Political Science
PS201 American Government
4 class hr/wk, 4 cr.
Introduces American government and its attendant political culture. Focuses on the inner dynamics of American political ideologies, the nature of political socialization, and the political philosophy inherent within the United States Constitution. Examines foundational studies of Federalism, civil liberties and equal rights. Also provides an analysis of democratic theory and process, and the role of education and the mass media in shaping American politics. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

PS205 International Relations
4 class hr/wk, 4 cr.
Introduces world politics and international relations. Deals with the nature of global conflict, nationalism, U.S. foreign policy, the role of multinational corporations in international decision making, North-South relations, and the mechanisms of conflict resolution between nations. Examines current global issues facing nation-states and helps students think critically about the challenges faced by the United States in an era of globalization. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

PS207 Trial Advocacy 1
4 class hr/wk, 4 cr.
Introduces the components of a trial in the American judicial system, and the role that the advocate plays. Examines basic trial advocacy techniques: direct and cross examination, opening and closing statements, and objections. Also provides an analysis of the proper use of evidence and exhibits in trial. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of PS201; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F

PS208 Trial Advocacy 2
4 class hr/wk, 4 cr.
Provides an advanced examination of trial advocacy techniques. Affords students the opportunity to develop and refine trial advocacy skills through drafting of documents, creation of exhibits, and participation in demonstrations and simulations. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of PS207; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

PS250 Introduction to Law 1
4 class hr/wk, 4 cr.
Introduces the concept of law and lawmakers in the context of the American legal system. Focuses on the process of settling disputes through alternative dispute resolution and the court system. Examines the role of lawyers in the legal process. Provides an overview of criminal law, legal procedure, and juvenile justice. W

PS251 Introduction to Law 2
4 class hr/wk, 4 cr.
Introduces the concept of civil law and examines each of the major branches of civil law including: Torts, Consumer law, Family Law and Individual Rights and Liberties. Explores contemporary issues in law. Sp

Psychology
PSY101 Psychology of Human Relations
4 class hr/wk, 4 cr.
Applies psychological principles to understanding relationships with ourselves and others. Includes an overview of basic personality and social psychology principles in addition to skill development in the following areas: dealing with emotions, interpersonal communication, developing close relationships, resolving conflicts, and managing stress. F, W, Sp, Su

PSY104 Workplace Psychology
4 class hr/wk, 4 cr.
Focuses on a number of important factors for effective performance in the workplace. Includes interpersonal skill development and communication, understanding individual differences, developing conflict resolution skills, group behavior, problem solving and decision making, becoming an effective leader, motivation, goal planning, diversity, stress management, improving career management skills, enhancing ethical behavior, and managing various work conditions. Covers important workplace laws and regulations in the United States. F, W, Sp, Su

PSY201 Introduction to Psychology: Mind and Body
4 class hr/wk, 4 cr.
Focuses on psychology as a natural science stressing history, methodology, the biological foundations of behavior, human development, sensation, perception, consciousness, learning, and memory. Prerequisite: Placement into RD115 and WR115; or completion of RD080 and RD085 (or concurrent enrollment), or RD090 and WR090 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

PSY202 Introduction to Psychology: Mind and Society
4 class hr/wk, 4 cr.
Focuses on psychology as a social science stressing language, thinking, emotion, motivation, intelligence, personality, health, abnormal behavior, therapy, and social thinking. Prerequisite: Placement into RD115; or completion (or concurrent enrollment) of RD080 and RD085, or RD090; and placement into WR115 (or higher), or completion of WR090 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su; CL
PSY213 Behavioral Neuroscience 4 class hr/wk, 4 cr.
Surveys the role of the brain and nervous system in behavior, psychological functioning, and the neurophysiological processes that underlie human development. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of PSY201, or BI212, or BI171, or BI231; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

PSY218 Educational Psychology 4 class hr/wk, 4 cr.
Surveys psychological topics relevant to educational settings. Topics may include child and adolescent development, language, group difference, learning, memory, behavior management, motivation, and assessment. Intended for Education majors. Prerequisite: Placement into RD115, or completion (or concurrent enrollment) of RD080 and RD085, or RD090; and placement into WR115 (or higher), or completion of WR090 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp; CL

PSY234 Social Psychology 4 class hr/wk, 4 cr.
Provides an overview of the major concepts and questions in the field of social psychology. Emphasizes diverse ways in which people's thoughts and actions are influenced by social stimuli. Illustrates theories and research on such topics as the self, relationships, conformity, helping behavior, impact of a diverse world, intercultural differences, and aggression. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of PSY201; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su; CL

PSY237 Life Span Development 4 class hr/wk, 4 cr.
Introduces the science of developmental psychology, emphasizing the interrelatedness of the biological, cognitive, and psychosocial domains from genetics and conception through prenatal development, birth, infancy, childhood, adolescence, adulthood, and death and bereavement. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of PSY201; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

PSY239 Abnormal Psychology 4 class hr/wk, 4 cr.
Provides a broad overview of abnormal psychology. Includes assessment and classification of psychological disorders, and biological and environmental factors associated with psychopathology, treatment, and ethical legal issues. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of PSY201; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

PSY280 Psychology of Media 4 class hr/wk, 4 cr.
Introduces the role of media on human behavior and cognition. Explores history of psychology of media, influence on social behavior, audience dynamics, propaganda, and linguistics. Media examined include, but are not limited to, radio, television, film, video, newsprint, magazines, video games, Internet, and social networking. Examines how media is used to perpetuate unequal distribution of power and discrimination, including how media is used to influence perception of similarities and differences between or within social/cultural groups. Focuses on the United States, but discusses how media is used around the globe and how the United States is portrayed in news media around the globe. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of PSY201; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp, Offered as needed; CL

PSY282 Psychology of Adolescence 4 class hr/wk, 4 cr.
Introduces major theories, current research, and issues pertaining to early, middle, and late adolescent development. Includes normal biological, cognitive, and psychosocial development, as well as deviant or problematic behavior. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of PSY201; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

Reading
See also SSP—Study Skills
RD085 College Reading 3 class hr/wk, 3 cr.
Provides instruction, in conjunction with XRD5320A, in and intensive practice with active reading strategies in order achieve a variety of learning goals. Students practice a study reading process to understand and use information from college-level texts. Includes application of study reading skills to specific academic disciplines and career fields. Prerequisite: Placement into RD085; and concurrent enrollment in XRD5320A; or consent of instructor. F, W, Sp

RD090 College Textbook Reading 3 class hr/wk, 3 cr.
Prepares students to comprehend and apply information from college-level textbooks. Encourages active reading by teaching students how to ask and look for answers to questions about author's purposes and strategies. Includes application of active reading skills to specific academic disciplines and career fields. Prerequisite: Placement into RD090. F, W, Sp, Offered as needed

RD115 Academic Thinking and Reading 3 class hr/wk, 3 cr.
Prepares students to become active participants in the process of reading print and digital college level materials. Encourages students to build and apply a repertoire of reading and thinking strategies to meet the demands of an academic setting. Prerequisite: Placement into RD115; or completion of RD080 and RD085, or RD090; or consent of instructor. Also placement into WR090; or concurrent enrollment in WR080; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp

RD120 Critical Thinking and Reading 3 class hr/wk, 3 cr.
Explores the structure of critical thinking and how to evaluate thinking, including that of other perspectives, and using a systematic and disciplined approach. Examines critical concepts, questions, and ideas that lead to further development of critical and ethical reasoning skills and abilities. Develops an appreciation for curiosity, imagination, objectivity, sensitivity, and intellectual honesty as characteristics of successful thinkers. Applies critical and creative thinking skills to consideration of issues of Difference, Power and Responsibility (DPR) within American society. Prerequisite: Placement into RD120 and WR115; or completion of RD115 and WR090, each with a grade of C or better; or consent of instructor. F, Offered as needed
Religious Studies

REL160 World Religions
4 class hr/wk, 4 cr.
Surveys the major world religions, including a look at their founders and their theology in terms of their views of God, self, society, purposes of life, traditions, and rituals. Includes the Abrahamic religions (Judaism, Christianity, and Islam) and the primary Asian religions of Hinduism and Buddhism. Also includes attention to religious offshoots of (and precursors to) the mainstream religions (e.g., Zoroastrianism, Jainism, Sikhism and Bhakti Faiths). Uses reflective and critical reading, thinking, writing, and discussion to explore the principal components of the world's dominant wisdom traditions. Recommended: Placement into WR121 (or higher); or completion of WR115 (or higher) with a grade of C or better. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed; CL

REL201 Asian Religions
4 class hr/wk, 4 cr.
Uses reflective and critical reading, thinking, writing, and discussion to explore the principal components of the dominant religions in Asia: Hinduism, Buddhism, and Taoism. Traces the historical development, fundamental beliefs and practices, and recommended lifestyle of each. Includes how to study a religion. Recommended: Placement into WR121 (or higher); or completion of WR115 (or higher) with a grade of C or better. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

REL202 Middle Eastern Religions
4 class hr/wk, 4 cr.
Uses reflective and critical reading, thinking, writing, and discussion to explore the principal components of the dominant monotheistic religions of the Middle East: Judaism; Christianity; and Islam. Traces the historical development and fundamental beliefs and practices of each religion. Includes how to study a religion. Recommended: Placement into WR121 (or higher); or completion of WR115 (or higher) with a grade of C or better. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

REL203 Religion in U.S. Culture
4 class hr/wk, 4 cr.
Explores the varieties of religious experience in the U.S., both contemporary and historical, along with the roles played by religion in public discourse. Asks critical questions about how faith traditions have responded to the challenges of colonial and post-colonial American life, with particular attention to the impact of secularism on religious belief and practice in the modern United States. Recommended: Placement into WR121 (or higher); or completion of WR115 (or higher) with a grade of C or better. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed; CL

Renewable Energy Management

See also ELT—Electronics Technologies

RNW110 Solar Energy Systems
2 class and 3 lab hr/wk, 3 cr.
Focuses on a collective and holistic technical and engineering approach for effectively using solar energy as a viable and economical energy source. Covers the designing, implementing, and auditing of energy-efficient, cost-effective solar power systems for residential, commercial, and industrial buildings. Includes basic theory on project planning, cost estimating, and manufacturing methods for solar power design success. Discusses energy conservation as a method of energy replacement. Provides practical experiences including roof installation. Prerequisite: ELT133 with a grade of C or better; or consent of instructor. Offered as needed

RNW120 Wind Energy Systems
2 class and 3 lab hr/wk, 3 cr.
Focuses on a collective and holistic technical and engineering approach for effectively using wind energy as a viable and economical energy source. Covers the pros and cons of “distributed” or “embedded” sources in electricity networks that require special consideration. Covers the cost-effective and environmental impact of those methods. Identifies the economic evaluation method and compares costs with carbon emission between conventional and alternate energy sources. Uses local case studies and practical experience with hydroelectric systems including a small hydroelectric generation plant. Prerequisite: ELT133 with a grade of C or better; or consent of instructor. Offered as needed

RNW130 Biomass Energy Systems
2 class and 3 lab hr/wk, 3 cr.
Focuses on the technical and engineering approach for effectively using renewable fuels as a viable and economical energy source. Covers the cost-effective and environment-friendly methods of handling, storing and burning these fuels. Also covers the economic evaluation method, introduces pollution control equipment for limiting the emission from fuel combustion, and costs and carbon emission comparisons between conventional and alternate fuels. Includes local case studies and practical experience in biodiesel production. Prerequisite: ELT133 with a grade of C or better; or consent of instructor. Offered as needed

RNW140 Hydroelectric and Geothermal Energy Systems
2 class and 3 lab hr/wk, 3 cr.
Focuses on hydroelectric and geothermal energy systems as a mainstay of energy supply. Covers the technical and engineering approach for effectively using hydroelectric and geothermal energy as a viable and economical energy source. Discusses the cost effectiveness and environmental impact of those methods. Identifies the economic evaluation method and compares costs with carbon emission between conventional and alternate energy sources. Uses local case studies and practical experience with hydroelectric systems including a small hydroelectric generation plant. Prerequisite: ELT133 with a grade of C or better; or consent of instructor. Offered as needed

RNW180 Energy Management
3 class hr/wk, 3 cr.
Focuses on how renewable energy sources are typically different from traditional energy sources in that they cannot be scheduled. Develops an integrative approach to such variables as time and cost. Identifies “distributed” or “embedded” sources in electricity networks that require special consideration. Covers the pros and cons of integration of renewable energy into the electricity distribution system as well as into the transmission system. Prerequisite: ELT133 with a grade of C or better; or consent of instructor. Offered as needed
Russian

RUS101, 102, 103 First Year Russian, Terms 1, 2, 3
4 class hr/wk, 4 cr. each
Introduces the Russian language (including listening, speaking, reading, and writing) and culture (including geography, customs, daily life, heritage and literature), facilitated by the study of vocabulary, grammar, short readings and guided conversation. Instructor and students use Russian as the primary language of the class.
Recommended: RUS101: None; RUS102: RUS101, or one year of high school Russian; RUS103: RUS102, or two years of high school Russian. (With a grade of C or better.) Prerequisite: Placement into WR115 (or higher); or completion of WR090 (or concurrent enrollment), or WR115 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) RUS101, F; RUS102, W; RUS103, Sp
RUS201, 202, 203 Second Year Russian, Terms 1, 2, 3
4 class hr/wk, 4 cr. each
Provides extensive practice in all four language skills (reading, writing, speaking, and listening). Includes cultural and literary readings and an in-depth review and expansion of basic Russian grammar and vocabulary, as well as a broadening of the student understanding of Russian culture. All classroom interaction (both by instructor and students) takes place in Russian. Recommended: RUS201: RUS103, or three years of high school Russian; RUS202: RUS201, or four years of high school Russian; RUS203: RUS202, or four years of high school Russian. (With a grade of C or better.) Prerequisite: Placement into WR115 (or higher); or completion of WR090 (or concurrent enrollment), or WR115 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) RUS201, F; RUS202, W; RUS203, Sp

Student Leadership Development

SLD101 Planning College Finances 1 class hr/wk, 1 cr.
Explores issues involved in creating a personal plan for financing higher education. Includes types of financial aid, scholarship searching, student loans, financial planning, and financial decision making strategies. W

SLD121A Student Mentor TRIO/CAMP 1 class and 3 lab hr/wk, 2 cr.
Develops necessary skills to be an effective mentor. Prepares mentors to serve as role models to encourage and influence the personal, educational and professional development of first generation college students in TRIO or CAMP. Course may be repeated for a maximum of 6 credits. Prerequisite: Must pass a criminal background check if working with middle or high school students. F, W, Sp

SLD121B Personal Mentoring 1 class and 3 lab hr/wk, 2 cr.
Develops necessary skills to be an effective mentor and community leader. Prepares mentors to serve as role models to encourage and influence the personal, educational, and professional development of at-risk students. Course may be repeated for a maximum of six credits. Prerequisite: Must pass a criminal background check if working with middle or high school students. F, W, Sp

SLD121C Peer to Peer Mentoring 1 class and 3 lab hr/wk, 2 cr.
Builds on and expands mentoring and community leadership skills. Complements and enhances SLD121B and SLD121D. Prepares student to take on more responsibility in coordinating college access-focused programming to complete with their mentees. Represents a course in the three-part Leadership Through Mentoring series. Prerequisite: Must pass a criminal background check to work with middle or high school students. W

SLD121D Critical Mentoring 1 class and 3 lab hr/wk, 2 cr.
Expands on and wraps up mentoring, community leadership, and college access skills developed in SLD121B and SLD121C. Teaches student to facilitate their mentees’ transitions to high school or college, and to transfer the skills they learned to other classes, to their career, and to other community engagement opportunities. Guides mentees through a mini-lesson and project related to an academic or community engagement topic of their choosing. Prerequisite: Must pass a criminal background check to work with middle or high school students. Sp

SLD123 Community Service Leadership 2 class hr/wk, 2 cr.
Introduces basic leadership skills necessary for working with community service projects. Enhances leadership abilities through theory and practical experience. Inspires students to make a difference. F, W, Sp

SLD124 Student Representation 1 1 class hr/wk, 1 cr.
Prepares student leaders to serve the mission of the Associated Students of Chemeketa (ASC) program in a responsible, ethical and professional manner. Introduces effective meeting tools, customer service skills, leadership and teamwork concepts. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; and must be a member of the Associated Students of Chemeketa (ASC Executive Board, ASC Student Council, or ASC Storm Front volunteer team) prior to enrollment. F

SLD125 Student Representation 2 1 class hr/wk, 1 cr.
Prepares second year lead ASC students to serve the mission of the program in a responsible, ethical, and professional manner while managing the goals of the whole membership. Introduces advanced skills and tools related to ASC tasks; training, evaluation, advocacy and recognition. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of SLD124; and be a member of the incoming Associated Students of Chemeketa (ASC) Executive Board; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

SLD126 Student Representation 3 1 class hr/wk, 1 cr.
Prepares lead ASC students to serve the mission of the program in a responsible, ethical and professional manner while managing the goals of the whole membership. Applies more advanced skills and tools related to ASC tasks, project evaluation, project management, customer service, leadership, conflict resolution and problem solving. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of SLD125; and be a member of the Associated Students of Chemeketa (ASC Executive Board, ASC Student Council or ASC Storm Front volunteer team) prior to enrollment; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

SLD127A Native American Culture Through Film 2 class hr/wk, 2 cr.
Examines critical issues pertaining to Native American tribes and culture throughout North America. Explores and defines key structures, traditions, perspectives, and themes through documentaries and feature films. F, W, Sp, Offered as needed
SLD127B African American Culture Through Film
2 class hr/wk, 2 cr.
Examines critical issues pertaining to African American culture. Explores and defines key structures, traditions, perspectives, and themes through documentaries and feature films. F, W, Sp, Offered as needed

SLD127C Strong and Progressive Women Through Film
2 class hr/wk, 2 cr.
Examines critical issues pertaining to strong and progressive women. Explores and defines key structures, traditions, perspectives, and themes through documentaries and feature films. F, W, Sp, Offered as needed

SLD127D Latino Culture Through Film
2 class hr/wk, 2 cr.
Examines critical issues pertaining to Latino culture throughout North America. Explores and defines key social issues, traditions, perspectives, and themes through documentaries and films. F, W, Sp, Offered as needed

SLD128 Leadership Development
2 class hr/wk, 2 cr.
Explores the definition of leadership and provides knowledge of basic leadership skills. Develops and enhances leadership abilities through practical skill building in teambuilding, goal-setting, role modeling, public speaking, time management, ethics, diversity, and customer service. Inspires cultivation of a personal leadership vision. Prerequisite: Consent of instructor. F, W, Sp, Offered as needed

SLD129 Student Life Leadership
1 class hr/wk, 1 cr.
Introduces students to techniques, strategies and information fundamental to success in a college/work environment. Explores leadership qualities, meeting facilitation skills, planning and organizational skills and college and office policies and procedures. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; and must be hired in a Student Retention and College Life Leadership position. W, Sp

SLD140 Student Services Leadership 1
1 class hr/wk, 1 cr.
Prepares student leaders to represent the college in a responsible, ethical, and professional manner. Introduces customer service and teamwork concepts. Prerequisite: Consent of instructor. F

SLD141 Student Services Leadership 2
1 class hr/wk, 1 cr.
Continues to build professional customer service skills. Introduces personal/professional development tools such as public speaking, conflict styles, and time and stress management. Prerequisite: SLD140 with a grade of C or better; or consent of instructor. W

Speech-Language Pathology Assistant

SLP180 Survey of Speech and Language Disorders
3 class hr/wk, 3 cr.
Provides an overview of the profession of speech language pathology. Describes the nature of various speech, language, voice and hearing; covers communication development in children and descriptions of language differences. Includes the training, scope, and practice of a speech language pathologist and a speech language pathology assistant. F, Offered as needed

SLP181 Phonetics for Language
3 class hr/wk, 3 cr.
Covers the listening/discrimination and transcription skills required to identify normal and disordered speech behaviors. Describes the motoric and linguistic acquisition of normal and disordered speech along with basic approaches to intervention that can be used by speech language pathology assistants. Focuses on transcription of American English speech sounds and the physical and linguistic development of speech. W, Offered as needed

SLP182 Intervention Strategies for SLP Assistants
3 class hr/wk, 3 cr.
Focuses on approaches to intervention that speech and language pathology assistants can use with children, adolescents, and adults within the limits of a specified scope of practice. Covers data and record keeping methodologies along with types of materials and approaches that are motivating for students/clients in different age groups. F, Sp, Offered as needed

SLP183 Introduction to Language Development
3 class hr/wk, 3 cr.
Introduces language development for students pursuing training as a speech language pathology assistant, and those in early childhood education. Provides an overview of basic linguistics and practical applications of the theoretical explanations of language acquisition. Includes observation of infants, children, and adolescents are the major focus for the identifying and the milestones of language development. Offered as needed

SLP284 Language Therapy
3 class hr/wk, 3 cr.
Offers an advanced clinical course for students pursuing training as speech-language pathology assistant. Focuses primarily on the age groups of early childhood, childhood, and adolescence; however, intervention approaches that can be used successfully with adults are included. Provides directed application of language, cognitive, and behavioral therapy techniques in individual and group intervention modalities. Stresses integration of interpersonal and paraprofessional knowledge and skills into clinical activities. Prerequisite: SLP180, SLP182, and SLP183; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

SLP285 Anatomy and Physiology of Speech and Language
3 class hr/wk, 3 cr.
Focuses on the anatomy and physiology specific to speech as a medium of communication and to the underlying modalities of language. Presents the anatomical structures and the physiology fundamental to various speech disorders, along with the role of anatomy and physiology in speech and language rehabilitation. Provides differentiation when appropriate among the anatomy and physiology of infants, children, adolescents, and adults. Offered as needed

SLP286 Speech Intervention with Children, Adolescents, and Adults
3 class hr/wk, 3 cr.
Presents an advanced clinical intervention course for speech language pathology assistants. Covers the various uses of group and individual therapy. Discusses treatment content and pacing. Includes the application of reinforcement schedules along with effective use of various speech sound teaching and correction strategies. Prerequisite: SLP180 and SLP181, each with a grade of C or better; or consent of instructor. W, Sp

SLP287 Clinical Documentation and Materials Management for the SLPA
3 class hr/wk, 3 cr.
Covers the development and use of therapeutic teaching materials based on knowledge of communication disorders, speech production, clinical intervention, and normal language and cognitive development. Includes various approaches to documenting the results of intervention. Focuses on the use of developmental and behavioral models to produce materials and assessment of various intervention programs. Prerequisite: SLP180 with a grade of C or better; or consent of instructor. W, Sp
SLP288 Communication Disorders in Low Incidence Populations
3 class hr/wk, 3 cr.
Focuses on the nature of communication and on swallowing and feeding disorders in groups of children with various types of disabilities that occur with low frequency in the general population. Describes the specific communication, swallowing, and feeding disorders manifested in these various groups, along with the approaches to and types of intervention. Emphasizes the role of the assistant in the administration of behavioral treatment and methods and the tracking of progress with various data methods as a major key to success for these clients in both group and individual treatment models. Includes an overview of the various genetic disorders. Prerequisite: SLP180 with a grade of C or better; or consent of instructor. Offered as needed.

SLP289 SLPA Practicum 1
1 class and 6 lab hr/wk, 3 cr.
Focuses on guided practice in speech language pathology assisting. Includes working with a speech language pathologist supervisor at one or more sites of service. Emphasizes skill shaping and improvement using input from the supervising clinician and the college instructor. Prerequisite: Completion of all SLPA courses with a grade of C or better; or consent of instructor. F, W, Sp

SLP290 SLPA Practicum 2
1 class and 6 lab hr/wk, 3 cr.
Focuses on guided practice in speech language pathology assisting. Includes working with a speech language pathologist supervisor at one or more sites of service. Emphasizes skill shaping and improvement using input from the supervising clinician and the college instructor. Prerequisite: SLP289 with a grade of C or better; or consent of instructor. F, W, Sp

SLP291 Ethical and Legal Considerations in Speech-Language Pathology
3 class hr/wk, 3 cr.
Presents analysis, review, and discussion of ethical considerations in speech-language pathology across practice setting. Covers patient confidentiality regulations, quality control, SLPA supervision, and licensure requirements. Discusses federal and state regulations relating to special education, IEP due process, patient privacy and confidentiality. Prerequisite: SLP180 with a grade of C or better; or consent of instructor. Offered as needed

SLP292 Augmentative and Alternative Communication
3 class hr/wk, 3 cr.
Introduces augmentative communication and technologies associated with the field of communication disorders. Examines characteristics of various augmentative communication systems and explores communication strategies related to the needs of the users. Discusses person-centered intervention and problem solving strategies. Includes case studies and designing materials that demonstrate the effective use of assistive technology, including alternative augmentative communication in relation to school, work, recreation, home, or community environments. Prerequisite: SLP180 and SLP183, each with a grade of C or better; or consent of instructor. Offered as needed

SLP293 Adult Communication Disorders
3 class hr/wk, 3 cr.
Explores neurogenic disorders that cause or contribute to communication disorders in adults. Examines speech and language disorders of aphasia, apraxia and dysarthria, and medical conditions of stroke, brain injury and dementia. Provides directed application of speech and language therapy techniques and intervention. Prerequisite: SLP180 and SLP183, each with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL

SLP294 Language, Culture and Society: Cross Cultural Communication
3 class hr/wk, 3 cr.
Introduces topics of communication disorders and language acquisition within the framework of culture, identity, language acquisition, and use. Explores cultural attitudes and beliefs about communication disorders and disabilities, cultural differences, cultural identity and second and bilingual language acquisition. Introduces intervention strategies and factors for working with clients across a variety of settings including children, adolescents, and adults. Prerequisite: SLP180 and SLP183, each with a grade of C or better; or consent of instructor. Offered as needed

Sociology
SOC204 The Sociological Perspective
4 class hr/wk, 4 cr.
Introduces and employs the sociological imagination to explore society and social experience. Emphasizes the complex relationships between individuals and society by introducing students to a diverse range of sociological approaches. Includes socialization, social structure, social interaction, culture, groups, stratification, social class, deviance, social science methodology, and the intellectual history of sociology. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL

SOC205 United States Society
4 class hr/wk, 4 cr.
Examines organized systems of behavior and how institutions interrelate and impact individuals and groups. Emphasizes the differential benefits of established social arrangements. Covers the family, government, religion, education, health care and medicine, the economy, formal organizations, and the sociology of work. Although focus is on U.S. society, global themes are explored. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL

SOC206 Social Problems
4 class hr/wk, 4 cr.
Applies the sociological perspective to the causes and consequences of social problems and examines the ways in which problems are constructed and defined. Covers inequalities based on race, ethnicity, gender, and age as well as problems such as crime, urbanization, population change, poverty, health, and the environment. Explores public policy and sociologically-informed solutions. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL

SOC210 Sociology of the Family
4 class hr/wk, 4 cr.
Offers a sociological perspective of the family, marriage, partnerships, and family life in the U.S. Treats the family as a social institution and focuses on structural arrangements, social inequalities, social problems, and socialization processes that impact family forms and experiences. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL
SOC213 Sociology of Race and Ethnicity
4 class hr/wk, 4 cr.
Offers a sociological perspective of race and ethnicity in the U.S. Treats race and ethnicity as systems of social relations and analyzes how racial domination operates in politics, place, education, economic matters, associations, families, and other fields of social life. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed; CL

SOC221 Juvenile Delinquency
4 class hr/wk, 4 cr.
Examines the nature, extent, causes, reaction, and control of juvenile delinquency in the United States from a sociological frame of reference. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su

SOC222 Sociology of the Environment and Sustainability
4 class hr/wk, 4 cr.
Introduces the sociological study of the environment and sustainability. Explores environmental and sustainability issues associated with natural resource utilization, energy consumption, and globalization. Focuses on the impact of social systems, social processes, and public policy. Examines environmental ideologies, collective behavior, and social change in relation to environmentalism and sustainability efforts. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed; CL

SOC224 Sociology of Violence, Terrorism, and War
4 class hr/wk, 4 cr.
Introduces the sociological study of violence, terrorism, and war. Explores violence within the context of domestic and international terrorism and war. Focuses on the role of social institutions, issues of power and inequality, social interaction, and cultural components as they relate to violence, terrorism, and war. Examines emerging strategies in prevention, responses, and engagement as well as the social costs of violence, terrorism, and war. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed; CL

SOC232 Death and Dying: A Socio-Cultural Perspective
4 class hr/wk, 4 cr.
Introduces the study of death and dying from a socio-cultural frame of reference. Studies social attitudes, cultural perspectives, and social-institutional factors associated with death and dying. Explores aspects of end-of-life issues, bereavement, and the afterlife. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL

Soil Science
See also HOR—Horticulture

SOIL205 Soil Science
3 class and 3 lab hr/wk, 4 cr.
Explores soil ecosystems as a medium for plant and crop growth, the cycling of nutrients, supply and purification of water, and a habitat for diverse population of soil organisms. Also studies the relationship of human activities to the sustainability of soil ecosystems. Offered as needed

SOIL206 Plant Nutrition
2 class hr/wk, 2 cr.
Provides an introduction to the general concepts of plant nutrition, soil fertility, fertilizers and fertilizer practices. Discusses essential plant nutrients and their behavior in soil and water and role in plant growth and production; soil fertility; environmental issues associated with fertilizers; and nutrient deficiencies. Interpret and understand soil, water and plant tissue analyses, the various types of fertilizers and application methods, and make fertilizer calculations. Covers case studies of balanced fertilizer regimes for common horticultural crops grown in the Willamette Valley. Recommended: Completion of HOR111 and SOIL205, each with a grade of C or better. W

Spanish

SPN101, 102, 103 First Year Spanish, Terms 1, 2, 3
4 class hr/wk, 4 cr. each
Introduces the Spanish language (including listening, speaking, reading, and writing) and Hispanic culture (including geography, customs, daily life, heritage, and literature), facilitated by the study of vocabulary, grammar, short readings and guided conversation. Instructor and students use Spanish as the primary language of the class. Recommended: SPN101: None; SPN102: SPN101, or one year of high school Spanish; SPN103: SPN102, or two years of high school Spanish. (With a grade of C or better.) Prerequisite: Placement into WR115 (or higher); or completion of WR090 (or concurrent enrollment), or WR115 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

SPN111, 112, 113 Beginning Spanish Conversation, Terms 1, 2, 3
3 class hr/wk, 3 cr. each
Provides Spanish conversation for beginners whose primary goal is basic communication in the language and an understanding of Hispanic culture. Listening, speaking, reading and writing skills are developed with an emphasis on conversation, facilitated by the study of vocabulary and structure. Instructor and students use Spanish as the primary language of the class. Recommended: SPN111: None; SPN112: SPN111, or one year of high school Spanish (With a C or better); SPN113: SPN112, or two years of high school Spanish. (With a grade of C or better.) Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. SPN111: F, W, SPN112: W, SPN113: Sp. Offered as needed

SPN150, 151 First Year Spanish - Accelerated, Terms 1, 2
6 class hr/wk, 6 cr. each
Introduces the Spanish language (including listening, speaking, reading and writing) and Hispanic culture (including geography, customs, daily life, heritage and literature), facilitated by the study of vocabulary, grammar, short readings and guided conversation. This course is equivalent to SPN101 and the first half of SPN102. Spanish is the primary language of the class. Recommended: SPN150: None; SPN151: SPN150, SPN101, or two years of high school Spanish. (With a grade of C or better.) Prerequisite: Placement into WR115 (or higher); or completion of WR090 (or concurrent enrollment), or WR115 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed
SPN160 Spanish for Educators
4 class hr/wk, 4 cr.
Obtain the base of academic language to be a successful bilingual teacher in Spanish and English. Gain Spanish skills in academic topics of math, science and language arts, plus classroom management vocabulary and strategy. Ideal for Education majors. Recommended: SPN103 with a grade of C or better; or 3 years of high school Spanish; or equivalent experience. Instructor will assess student background when needed. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

SPN201, 202, 203 Second Year Spanish, Terms 1, 2, 3
4 class hr/wk, 4 cr. each
Provides extensive practice in all four language skills (reading, writing, speaking, listening). Includes cultural and literary readings and an in-depth review and expansion of basic Spanish grammar and vocabulary, as well as a broadening of the student's understanding of Hispanic culture. All classroom interaction (both by instructor and students) takes place in Spanish. Recommended: SPN201: SPN103, SPN151, or three years of high school Spanish; SPN202: SPN201, or four years of high school Spanish; SPN203: SPN202, or four years of high school Spanish. (With a grade of C or better.) Prerequisite: Placement into WR115 (or higher); or completion of WR090 (or concurrent enrollment), or WR115 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) SPN201: F, Offered as needed; SPN202: W, Offered as needed; SPN203: Sp, Offered as needed

SPN211, 212, 213 Intermediate Spanish Conversation, Terms 1, 2, 3
3 class hr/wk, 3 cr. each
Provides Spanish conversation for intermediate learners whose primary goal is increased basic communication in the language and an expanded understanding of Hispanic culture. Listening, speaking, reading and writing skills continue to be developed with an emphasis on conversation, facilitated by the study of vocabulary and structure. All classroom interaction (both by instructor and students) takes place in Spanish. Recommended: SPN211: SPN113, or two years of high school Spanish (With a grade of C or better); SPN212: SPN211, or three years of high school Spanish (With a grade of C or better); SPN213: SPN212, or three years of high school Spanish. (With a grade of C or better.) Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or concurrent enrollment), or WR115 (or higher); or consent of instructor. SPN211: F; SPN212: W; SPN213: Sp

SPN214, 215, 216 Spanish for Native Speakers 1, 2, 3
4 class hr/wk, 4 cr. each
Develops reading, writing, speaking and grammar skills for students whose first language is Spanish. Fosters critical thinking and deepens understanding and appreciation of Hispanic cultures worldwide. All classroom interaction takes place in Spanish. Placement test is given the first day of classes to determine students' strength and weakness areas. Recommended: SPN214: None; SPN215: SPN14; SPN216: SPN215. (All with a grade of C or better.) Prerequisite: Placement into WR115 (or higher); or completion of WR090 (or higher) with a grade of C or better or consent of instructor; and Native Spanish speaker (grew up speaking Spanish at home). Students are expected to be familiar with the written language. SPN214: F, Offered as needed; SPN215: W, Offered as needed; SPN216: Sp, Offered as needed

SPN250, 251, 252 Second Year Spanish—Accelerated, Terms 1, 2, 3
6 class hr/wk, 6 cr. each
Provides extensive practice in all four language skills (reading, writing, speaking, and listening). Includes cultural and literary readings and an in-depth review and expansion of basic Spanish grammar and vocabulary, as well as a broadening of the student's understanding of Hispanic culture. All classroom interaction (both by instructor and students) takes place in Spanish. Recommended: SPN250: SPN103, SPN151, or three years of high school Spanish; SPN251: SPN250, SPN202, or four years of high school Spanish. (With a grade of C or better.) Prerequisite: Placement into WR115 (or higher); or completion of WR090 (or concurrent enrollment), or WR115 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Su, Offered as needed

SPN253, 254, 255 Second Year Spanish—Advanced, Terms 1, 2, 3
6 class hr/wk, 6 cr. each
Provides extensive practice in all four language skills (reading, writing, speaking, and listening). Includes cultural and literary readings and an in-depth review and expansion of basic Spanish grammar and vocabulary, as well as a broadening of the student's understanding of Hispanic culture. All classroom interaction (both by instructor and students) takes place in Spanish. Recommended: SPN253: SPN201, SPN215, or three years of high school Spanish; SPN254: SPN253, SPN216, or four years of high school Spanish. (With a grade of C or better.) Prerequisite: Placement into WR115 (or higher); or completion of WR090 (or higher) with a grade of C or better or consent of instructor; and Native Spanish speaker (grew up speaking Spanish at home). Students are expected to be familiar with the written language. SPN253: F, Offered as needed; SPN254: W, Offered as needed; SPN255: Sp, Offered as needed

SSC100 Foundation of American Indian Languages
3 class hr/wk, 3 cr.
Introduces the diversity and cultural contexts of American Indian Languages. Explores historic migrations, ways of word-borrowing, humor, and musical texts. Also covers gender issues, ecological concerns, spirituality and political views of their speakers combined with rudiments of linguistics, phonetics, writing systems and efforts to revitalize indigenous languages. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

Social Science
See also CLA—Chicano/Latino Studies

SSC100 Foundation of American Indian Languages
3 class hr/wk, 3 cr.
Introduces the diversity and cultural contexts of American Indian Languages. Explores historic migrations, ways of word-borrowing, humor, and musical texts. Also covers gender issues, ecological concerns, spirituality and political views of their speakers combined with rudiments of linguistics, phonetics, writing systems and efforts to revitalize indigenous languages. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

Study Skills
See also RD—Reading

SSP051 Studying for College
3 class hr/wk, 3 cr.
Focuses on effective learning strategies that are important for success in college. Covers getting organized, studying for and taking tests, and utilizing college resources. Prerequisite: Placement into RD080; or consent of instructor. F, W, Sp

SSP060 Study Strategies for Learning Math
1 class hr/wk, 1 cr.
Develops study skills critical for success in math courses. Corequisite: Enrollment in a math course. F, W, Sp
SSP112 Effective Learning
3 class/hr/wk, 3 cr.
Develops active and efficient participation skills in the learning process. Encourages effective learning strategies necessary to meet the learning challenges of academic and career settings. Develops note taking, listening, textbook study-reading, time management, test-taking and concentration, and memory strategies. Focuses on reducing test anxiety and procrastination. Identifies campus resources and learning preferences. Prerequisite: Placement into RD115; or completion of RD080 and RD085, or RD090 (or concurrent enrollment); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

SSP115 Applied Time Management
1 class/hr/wk, 1 cr.
Develops practical and efficient time management strategies. Prerequisite: Placement into RD090 (or higher); or consent of instructor. F, W, Sp

SSP116 Applied Textbook Reading
1 class/hr/wk, 1 cr.
Develops practical and efficient textbook study reading strategies. Prerequisite: Placement into RD090 (or higher); or consent of instructor. F, W, Sp

SSP117 Applied Note Taking
1 class/hr/wk, 1 cr.
Develops practical and efficient textbook and lecture note-taking as well as listening strategies. Prerequisite: Placement into RD090 (or higher); or consent of instructor. F, W, Sp

SSP118 Applied Test Taking
1 class/hr/wk, 1 cr.
Develops practical and efficient test taking strategies. Prerequisite: Placement into RD090 (or higher); or consent of instructor. F, W, Sp

SSP125 Learning Strategies for Online Students
1 class/hr/wk, 1 cr.
Online course prepares students to manage responsibilities and technology for online class success. Covers learning strategies and skills necessary to accomplish online goals. F, W, Sp, Su

Skills Training

ST100A-Q Occupational Skills Training
1–16 cr.
Occupational Skills Training (OST) is a work-site-based short-term training program. Students receive hands-on instruction at work sites based on individualized competency-based curricula developed to meet employment requirements in students’ chosen occupations. Competencies are developed, taught, and evaluated by knowledgeable site trainers; and programs are closely monitored by OST coordinators and other appropriate partners. Prerequisite: Students must meet screening criteria for admission to the program. F, W, Sp, Su

Theatre

TA110 Introduction to Theatre
4 class/hr/wk, 4 cr.
Explores the theatre arts from the audience perspective. Introduces styles and genres, theatre architecture, play analysis, and elements of production, with a focus on contemporary theatre in the United States. Students develop a critical and informed response to performances of all types. Requires viewing of two local theatre productions. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. W, CL

TA141 Acting 1
4 class/hr/wk, 4 cr.
Introduces the skills and techniques of acting for the stage focusing on the actor’s instrument of body, voice, and mind. Includes voice and movement, improvisation games, script analysis, performance evaluation, and the rehearsal process. Improves public speaking and confidence for the non-actor and develops stage presence and essential skills for the beginning actor. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, Sp

TA142 Script Analysis
4 class/hr/wk, 4 cr.
Analyzes the dramatic structure of plays with an emphasis on interpretation and production (directing, acting, and design). Examines traditional and non-traditional plays from various periods. Introduces major theatrical theories related to play structure, theme, and style. Recommended: TA110 or TA141, either with a grade of C or better. Prerequisite: Placement into WR121; or completion of WR115 (or higher), with a grade of C or better; or consent of Instructor. F, Offered as needed

TA242 Acting 2
4 class/hr/wk, 4 cr.
Provides a rigorous study of modern, realistic stage acting based on Stanislavsky’s system, focusing on character development and technique. Explores movement, voice, text work, professionalism, and collaboration. Surveys modern acting theory. Suitable for students intending to transfer as a theatre major. Recommended: TA142 with a grade of C or better. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher); and completion of TA141; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, Offered as needed

Visual Communications

See also ART

VC111 Intro to Visual Communications
4 class/hr/wk, 4 cr.
Presents an overview of the graphic arts and the Visual Communications program and potential careers. Includes creative exercises, ethics, and professional practices. Prerequisite: Enrollment in the Visual Communications program; or consent of instructor. F

VC114 Intro to Digital Graphics
2 class and 2 lab/hr/wk, 4 cr.
Introduces students to raster and vector image editing software for graphic artists. Includes instruction in professional software used in photo editing and vector illustration. Prerequisite: Enrollment in the Visual Communications program; or consent of instructor. F

VC115 Intro to Digital Layout
2 class and 2 lab/hr/wk, 4 cr.
Introduces students to digital layout software in both print and Web design for graphic artists. Includes instruction in page layout for creating documents for print, and design and development techniques used in the creation of basic Web sites. Prerequisite: VC114 with a grade of C or better; or consent of instructor. W

VC130 Photoshop 1
1 class and 2 lab/hr/wk, 2 cr.
Introduces the concepts and techniques of digital image manipulation and correction. Prerequisite: Previous computer experience; or consent of instructor. F, W, Sp, Su

VC131 Photoshop 2
1 class and 2 lab/hr/wk, 2 cr.
Refines and expands the concepts and techniques of digital imaging tools with application to digital illustration. Prerequisite: VC130 with a grade of C or better; or consent of instructor. Sp
VC133A InDesign 1  
2 class and 2 lab hr/wk, 2 cr.  
Introduces Adobe InDesign, the industry-standard for page layout and design.  
Includes instruction in document setup, pages, typography, images, color, and output for print.  
Prerequisite: Previous computer experience.  
Offered as needed

VC140 Illustrator 2  
2 class and 2 lab hr/wk, 2 cr.  
Continues the use of vector graphic software Adobe Illustrator.  
Prerequisite: Previous computer experience; or consent of instructor.  
Offered as needed

VC147 Cascading Style Sheets 1  
2 class and 2 lab hr/wk, 2 cr.  
Introduces the syntax and use of Cascading Style Sheets, the presentation language for layout and styling of Web pages.  
Covers creating basic layouts, formatting text, implementing background images, applying simple animations and visual effects, and targeting designs for different devices.  
Prerequisite: Previous computer experience; or consent of instructor.  
Offered as needed

VC151 Graphic Production  
2 class and 2 lab hr/wk, 3 cr.  
Introduces graphic production knowledge and processes for both print and online applications. Includes theory and hands-on work with digital color and color management, raster and vector images, transparency and masking, task automation, and output processes.  
Prerequisite: VC114 with a grade of C or better; or consent of instructor.  
W, Offered as needed

VC224 Layout 1: Page Design  
2 class and 4 lab hr/wk, 4 cr.  
Introduces the basics of page, layout emphasizing the grid. Includes assignments focusing on common challenges in digital page layout, and developing both technical and creative thinking skills.  
Prerequisite: VC114 and ART224, each with a grade of C or better; or consent of instructor.  
F

VC225 Layout 2: Intermediate Page Design  
2 class and 4 lab hr/wk, 4 cr.  
Further develops the skills required in design and page layout.  
Prerequisite: VC224 with a grade of C or better; or consent of instructor.  
Corequisite: VC246.  
F

VC226 Layout 3: Publication Design  
2 class and 4 lab hr /wk, 4 cr.  
Applies the concepts and skills of the design and layout process to the principles of publication design.  
Prerequisite: VC225 with a grade of C or better; or consent of instructor.  
W

VC235 Interface Design  
2 class and 2 lab hr/wk, 3 cr.  
Introduces students to interface design for desktop and mobile browser-based platforms. Course approaches interface design problems from both visual design and usability perspectives. Includes requirements analysis, design process, grid and hierarchy, usability, and basic technical features and limitations of the medium.  
Prerequisite: ART224 and VC224, each with a grade of C or better; or consent of instructor.  
W

VC237 Web Design 1  
2 class and 4 lab hr/wk, 4 cr.  
Introduces the techniques and skills needed to plan and create layouts, images, and design for the World Wide Web using industry standard coding practices, web editors, and graphics applications.  
Prerequisite: VC115 with a grade of C or better; or consent of instructor.  
Sp

VC238 Web Design 2  
2 class and 4 lab hr/wk, 4 cr.  
Develops the techniques and skills needed to plan, design, and implement web sites and create complex graphics and layouts for the World Wide Web using industry standard coding practices, web editors, and graphics applications.  
Prerequisite: VC237 with a grade of C or better; or consent of instructor.  
F

VC239 Web Design 3  
2 class and 4 lab hr/wk, 4 cr.  
Further develops advanced techniques and skills needed to plan, design, build and launch complex web sites using industry standard technologies and web editors. Focuses on building sophisticated web sites using Web standards including Cascading Style Sheets and HTML, and on the study of web hosting, web statistics, content management systems, and other advanced topics in web design.  
Prerequisite: VC238 with a grade of C or better; or consent of instructor.  
W

VC241 Interactive Media  
2 class and 4 lab hr/wk, 4 cr.  
Presents an exploration of creating and implementing interactive experiences to communicate narratives and information on digital devices. Focuses on the principles and application of graphic design, user interaction design, and user feedback methods as they apply to digital experiences on touch devices (tablet and mobile) and desktop devices.  
Prerequisite: CIS133SC and VC238, each with a grade of C or better; or consent of instructor.  
Sp

VC243 Animation and Motion Graphics 1  
2 class and 4 lab hr/wk, 4 cr.  
Covers concepts, methods, and techniques of creating animations and motion graphics. Surveys a range of traditional animation methods and principles as well as explores the art of storytelling through the use of storyboarding and implementing various industry standard software and contemporary techniques.  
Prerequisite: ART120 with a grade of C or better; or consent of instructor.  
Offered as needed

VC244 Animation and Motion Graphics 2  
2 class and 4 lab hr/wk, 4 cr.  
Applies the principles of animation and motion graphics using industry standard software and techniques. Includes animated branding as well as developing a short animation project by first scripting and storyboarding the project, then using both traditional and contemporary techniques to animate it.  
Offered as needed

VC246 File Prep  
2 class and 2 lab hr/wk, 3 cr.  
Builds knowledge of readying digital files for offset printing. Presents common file problems and their solutions, including issues with page geometry, vector and raster files, application of color, font use, PDF files, and final proofing and output.  
Prerequisite/ 
Corequisite: VC224 and VC225, each with a grade of C or better; or consent of instructor.  
F

VC271A-VC273A Design Studio 1 – 3 class hr/wk, 1-3 cr. each  
Provides the opportunity to work with an instructor on the design and production of graphic design projects for real clients.  
Any combination of the courses may be repeated for a maximum of six credits.  
Prerequisite: Second year standing in the Visual Communications program; and completion of VC225 (or concurrent); or consent of instructor.  
Offered as needed

VC271B-VC273B Web Studio 1 – 3 class hr/wk, 1-3 cr. each  
Provides the opportunity to work with an instructor on the design and production of live web sites.  
Any combination of the courses may be repeated for a maximum of six credits.  
Prerequisite: Second year standing in the Visual Communications program; or consent of instructor.  
Offered as needed

VC271C-VC273C Photo Studio 1 – 3 class hr/wk, 1-3 cr. each  
Provides the opportunity to work with an instructor on photography for live projects.  
Any combination of the courses may be repeated for a maximum of six credits.  
Prerequisite: Consent of instructor.  
Offered as needed
VC272D Multimedia Arts Studio
2 class hr/wk, 2 cr.
Provides the opportunity to work with an instructor on the production of multimedia arts projects for real clients. Any combination of the courses may be repeated for a maximum of six credits.
Prerequisite: Second-year standing in the Visual Communications program; and completion of ART120 (or concurrent) with a grade of C or better; or consent of instructor. Offered as needed

VC280B-L Cooperative Work Experience
See CWE—Cooperative Work Experience.

VC283 Business of Graphic Arts
4 class hr/wk, 4 cr.
Introduces best practices of creative businesses for both freelancers and small organizations. Includes project management, production schedules, estimating and billing, client and supplier communications, record keeping, and asset management. Prerequisite: Second-year standing in the Visual Communications program; or consent of instructor. Corequisite: VC284, and VC285A or VC285B. Sp

VC284 Portfolio
2 class and 4 lab hr/wk, 4 cr.
Serves as a capstone course for all students pursuing a Graphic Design degree in the Visual Communications program. Includes the analysis and reworking of previous projects and the development of new projects to include in a digital portfolio or demo reel to assist students in getting started on a career path. Prerequisite: Second-year standing in the Visual Communications program; or consent of instructor. Corequisite: VC284, and VC285A or VC285B. Sp

VC285A Design Portfolio Preparation
1 class and 2 lab hr/wk, 2 cr.
Serves as a capstone course for all students pursuing a Graphic Design degree in the Visual Communications program. Includes the analysis and reworking of previous projects and the development of new pieces to include in a portfolio to assist students in getting started on a career path. Prerequisite: Second-year standing in the Visual Communications program; or consent of instructor. Corequisite: VC283 and VC284. Sp

VC285B Web Portfolio Preparation
1 class and 2 lab hr/wk, 2 cr.
Serves as a capstone course for all students pursuing an Interactive Media degree in the Visual Communications program. Includes the analysis and reworking of previous projects and the development of new pieces to include in a portfolio to assist students in getting started on a career path. Prerequisite: Second-year standing in the Visual Communications program. Corequisite: VC283 and VC284. Sp

VC286 Multimedia Arts Portfolio
2 class and 4 lab hr/wk, 4 cr.
Serves as a capstone course for all students pursuing a Multimedia Arts degree in the Visual Communications program. Includes resumes, branding, business, and the analysis and reworking of previous projects and the development of new projects to include in a digital portfolio or demo reel to assist students in getting started on a career path. Prerequisite: Second-year standing in the Visual Communications program; or consent of instructor. Corequisite: VC284, and VC285A or VC285B. Sp

VC288O Summer Vineyard Practices
3 class hr/wk, 4 cr.
Surveys summer vineyard management practices. Covers planting, training of young vines, disease and weed control, canopy and vineyard floor management, and nutritional applications. VMW114 and VMW115, both with a grade of C or better; or consent of instructor. Su

Wine Studies

VMW101 General Viticulture
3 class hr/wk, 3 cr.
Introduces grape growing. Covers botany, fruiting and rootstock cultivars; anatomy and physiology; history and distribution of grapes; vine classification; world growing areas, including latitude, climate and soils; and common diseases and pests. F, W, Sp

VMW102 Wine Industry Exploration
3 class hr/wk, 3 cr.
Examines various segments of the wine industry and how they function as a whole. Reviews the legal entities for doing business. Explores different business models in the Oregon wine industry. Offered as needed

VMW105 Spanish in the Vineyard
3 class hr/wk, 3 cr.
Covers practical Spanish terms and phrases specific to viticulture work. Surveys cultural information about Spanish speaking people. Includes pronunciation, technical vocabulary, greetings, and basic grammar. W

VMW114 Winter Vineyard Practices
3 class and 2 lab hr/wk, 4 cr.
Surveys winter vineyard management practices. Covers pruning, propagation, bench grafting, and simple trellis designs. Prerequisite: VMW101 with a grade of C or better; or consent of instructor. W

VMW115 Spring Vineyard Practices
3 class and 2 lab hr/wk, 4 cr.
Surveys spring vineyard management practices. Focuses on preparing a vineyard site for planting, spring canopy management and other site issues. Covers pest and disease control. Prerequisite: VMW114 with a grade of C or better; or consent of instructor. Sp

VMW116 Summer Vineyard Practices
3 class and 2 lab hr/wk, 4 cr.
Surveys summer vineyard management practices. Covers planting, training of young vines, disease and weed control, canopy and vineyard floor management, and nutritional applications. VMW114 and VMW115, both with a grade of C or better; or consent of instructor. F

VMW117 Fall Vineyard Practices
3 class and 2 lab hr/wk, 4 cr.
Surveys fall vineyard management practices. Focuses on harvest practices, harvest contracts, and ripening parameters. Compares different ripening characteristics for a variety of clones and rootstocks. Covers fall canopy management, disease problems, and weather effects on ripening. Prerequisite: VMW114, VMW115, and VMW116; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F

VMW122 Introduction to Winemaking
3 class hr/wk, 3 cr.
Surveys the history of wine, wine grape varieties, and world wine regions. Covers the annual cycle of vine growth and berry ripening; grape processing practices; and fermentation of wines. Examines the winemaking practices used for white, red, sparkling, and dessert wines. Introduces the application of sensory science to wine quality evaluation. Reviews wine and health issues. W

VMW131 Wine Appreciation
3 class hr/wk, 3 cr.
Introduces wine appreciation. Includes grape varieties, wine types, sensory distinctions, food and wine combinations, and the sensory evaluation of wines. F, W, Sp

VMW132 Wines of the World
3 class hr/wk, 3 cr.
Introduces wines and the wine producing regions of the world. Focuses on viticultural practices and winemaking styles. Covers the influence of wine on literature, history, the economy and religion. Prerequisite: VMW131 with a grade of C or better; or consent of instructor. Student must be 21 years of age. W

VMW134 Wines of the Pacific Northwest
3 class hr/wk, 3 cr.
Focuses on the viticultural regions of the United States Pacific Northwest and the sensory evaluation of representative wines. Emphasizes knowledge of the winemaking history of the area. Promotes a basic understanding of the wines of the regions. Prerequisite: VMW131 with a grade of C or better; or consent of instructor. F
VMW170 Selling and Marketing Wine
3 class hr/wk, 3 cr.
Explores the marketing and selling of wine in Oregon. Introduces concepts and topics useful to winery and vineyard owners/managers, with a focus on direct-to-consumer (DTC) marketing personnel, such as tasting room and wine club managers. Sp

VMW222 Science of Winemaking
4 class hr/wk, 4 cr.
Focuses on the scientific principles of wine production. Covers the physiology of grape berry development and wine grape processing. Stresses wine microbiology, the chemical composition of juice and wines, wine stabilization and clarification, fining and filtration, maturation, aging, and bottling. Prerequisite: VMW122; MTH095 (or higher); CH110, or CH121, CH122 and CH123, or VMW223; VMW101; VMW122; and VMW131; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

VMW223 Fundamentals of Chemistry for Winemaking
3 class and 4 lab hr/wk, 5 cr.
Introduces the fundamentals of chemistry for students majoring in Wine Science. Examines the interrelationships of chemistry in winemaking. Covers matter and atoms; bonding; molar concepts; chemical equations; solutions and solubility; acids, bases, and salts; oxidation-reduction; chemical equilibrium; carbohydrates and proteins; and introduction to organic chemistry and functional groups common in wine. Prerequisite: Placement into MTH111 (or higher); or completion of MTH095 (or higher); or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

VMW224 Chemical Analysis of Must and Wine
3 class and 2 lab hr/wk, 4 cr.
Introduces vineyard and winery laboratory practices. Covers basic chemical principles, laboratory techniques, and analytical procedures for musts and wines. Prerequisite: CH123 or VMW223, either with a grade of C or better; or consent of instructor. Su

VMW232 Sensory Evaluation of Wine Varietals
3 class hr/wk, 3 cr.
Reviews sensory evaluation procedures. Focuses on wine varietal evaluation through sensory methods. Covers major worldwide wine varietals, distinguishing wine styles and blending wines. Identifies wine defects. Prerequisite: VMW131 with a grade of C or better; or consent of instructor. Sp

VMW233 Sensory Evaluation of Wine Components
3 class hr/wk, 3 cr.
Stresses sensory evaluation of wine components. Surveys the most important components commonly found in table wines. Emphasizes identification of components through tasting a series of wines which have been constructed to show the effects of steadily increasing the amount of the component in a wine. Prerequisite: VMW222 with a grade of C or better; or consent of instructor. Sp

VMW244 Wine Production
4 class and 6 lab hr/wk, 6 cr.
Focuses on wine processing practices and quality control management. Demonstrates harvest and pre-fermentation processing decisions. Covers equipment operation, maintenance, sanitation and safety. Examines juice analysis, additions, selection of wine microorganisms, and managing fermentations. Covers post fermentation management practices, managing malolactic fermentation, and new wine analysis. Prerequisite: VMW224; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F

VMW245 Wine Clarification and Stabilization
2 class and 4 lab hr/wk, 4 cr.
Focuses on wine processing practices and quality control management. Covers physical, chemical, and microbial stabilization of new wines. Includes tartrates, proteins, oxidation, reduction, color and phenols, microbial stability, use of fining agents, and causes and corrections of wine defects. Prerequisite: VMW244 with a grade of C or better; or consent of instructor. W

VMW246 Wine Aging, Filtration, and Bottling
3 class and 2 lab hr/wk, 4 cr.
Focuses on wine processing practices and quality control management. Covers wine transfer methods and wine filtration using pad, diatomaceous earth, and membrane filters, aging and barrel storage, bottling practices and equipment, and required wine analysis. Prerequisite: VMW245; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

VMW254 Winery Process Planning and Design
3 class hr/wk, 3 cr.
Focuses on winemaking systems, winery operations, utilities and equipment. Covers process technologies and systems used in wineries, winery design and layout. Stresses regulatory issues in planning and operating a winery and workplace safety. Prerequisite: VMW222 with a grade of C or better; or consent of instructor. Sp

VMW260 Vineyard Nutrition and Irrigation Management
3 class hr/wk, 3 cr.
Introduces basic principles of soil science. Emphasizes grapevine mineral nutrition and the relationship of water and soils. Covers soil conservation and improvement. Su

VMW261 Vine Physiology
4 class hr/wk, 4 cr.
Introduces the anatomy, physiology and growth habits of grapesvines. Covers plant processes responsible for patterns of growth, yield, and fruit quality in wine grapes in the context of common viticultural practices. W

VMW262 Vineyard Pest Management (IPM)
4 class hr/wk, 4 cr.
Covers the identification and management of all relevant pests, diseases, and weeds in vineyard systems. Develops pest monitoring and decision-making skills for vineyard management. Investigates integrated pest management approaches, including cultural, biological, chemical, and other methods. Reviews relevant pest management regulations. Sp

VMW280B-L Wine Studies Internship
See CWE—Cooperative Work Experience

VMW290 Wine Studies Capstone
4 class hr/wk, 4 cr.
Provides the opportunity to demonstrate organization and leadership in a guided learning project. Promotes the application, further development, and deeper understanding of learned skills and techniques in Wine Studies program. Improves project management skills. Promotes career-readiness. Prerequisite: VMW222 with a grade of C or better; and must be in the last term of Vineyard Management and/or Winemaking program. Instructor approval required. Sp

Welding Fabrication

WFB088 Fabrication Practices 4
1 class and 6 lab hr/wk, 3 cr.
Includes instruction and experience in production-type welding with use of jigs, fixtures and positioners. Prerequisite: WFB087 with a grade of C or better; or consent of program chair. Sp

WFB096 Shop Projects 1
1 class and 3 lab hr/wk, 2 cr.
Emphasizes practical experience in maintenance and repair of weld shop machines, accessories and fixtures. Uses selected fabrication and repair projects to develop resourcefulness and confidence in the application of skills and knowledge developed in concurrent courses. Prerequisite: Enrollment as a full-time student in the Welding Fabrication program; or consent of the program chair. Sp
Welding

WLD059 Ornamental Iron Work 1 class and 3 lab hr/wk, 2 cr.
Introduces the design and creation of metal sculpture and decorative structures through welded fabrication. F, Offered as needed

WLD105 Introduction to Welding 2 class and 3 lab hr/wk, 3 cr.
Introduces the fundamentals of spot welding (resistive welding), arc welding, oxyacetylene welding and cutting, metallic inert gas welding (MIG), and Tungsten Arc Welding (TIG) procedures. Includes safety awareness of factory floor personnel. F, Offered as needed

WLD151 Basic Arc Welding 2 class and 9 lab hr/wk, 5 cr.
Studies the basic principles involved in making fillet welds on mild steel, using standard industrial procedures, equipment, and welding electrodes, with the shielded metal arc welding (SMAW) process. Includes basic technical and related information concerning other welding processes, in comparison to the shielded metal arc welding process. F

WLD152 Intermediate Arc Welding 2 class and 9 lab hr/wk, 5 cr.
Continues WLD151. Covers ferrous and nonferrous alloys and welding procedures. Includes demonstration and supervised practice of techniques on various metals applied in fabrication and repair concurrently with related information concerning the use and structure of these metals. Prerequisite: WLD151 with a grade of C or better; or consent of program chair. W

WLD153 Advanced Arc Welding 1 class and 7 lab hr/wk, 4 cr.
Prepares for welding under code-type procedures and on plate. Studies welding procedures previously covered, as they apply to heavy gauge welding, with groove-type joints. At the end of the term the student will be given the opportunity to take a certification test, in accordance with American Welding Society (AWS) code welding standards. Prerequisite: WLD152 with a grade of C or better; or equivalent industrial experience as determined by program chair; or consent of program chair. Sp

WLD155 Fabrication Procedures 1 class and 6 lab hr/wk, 3 cr.
Introduces shop equipment, including plate shear, press brake, hydraulic ironworker, drill press, and grinder. Review and application of the welding, layout, and fabrication processes and procedures covered in Terms 1 and 2. Includes study and practice using selected basic welding fabrication projects in a job shop environment, also includes job search techniques. Prerequisite: Third term standing in the Welding Fabrication program; or consent of Program Chair. Sp

WLD156 Blueprint Reading and Sketching 2 class and 7 lab hr/wk, 5 cr.
Covers basic sketching techniques and reading for three-view drawings for welders. Includes dimensioning practices, scaling, line alphabet, notes, and symbols. Emphasizes developing skills in reading detail and weldment drawings. F

WLD157 Introduction to Layout and Fabrication 1 class and 4 lab hr/wk, 3 cr.
Studies layout tools and procedures used to fabricate welded metal products. Includes alignment, joint fitting, and tack welding procedures and methods. Prerequisite: WLD156 with a grade of C or better; or consent of program chair. W

WLD161 Basic MIG Welding 1 class and 6 lab hr/wk, 3 cr.
Introduces basic skills in semiautomatic metal inert gas (MIG) welding processes. Covers principles involved in equipment, material, and procedures, combined with demonstrations and supervised practical experience, using standard industrial equipment. Uses solid and flux-core wire in typical industrial applications. F

WLD162 Intermediate MIG Welding 1 class and 6 lab hr/wk, 3 cr.
Builds upon WLD161 and includes a study of and practice in welding of carbon steel. Emphasizes production in welding situations, using large diameter electrodes (solid and flux-core) with mixed shielding gases in flat or horizontal positions. Prerequisite: WLD161 with a grade of C or better; or consent of program chair. W

WLD163 Advanced MIG Welding 1 class and 6 lab hr/wk, 3 cr.
Continues WLD162. Includes welding mild steel, aluminum, stainless steel, and steel pipe. Students may take a certification test in accordance with the American Welding Society (AWS) unlimited plate test, in accordance with AWS D1.1 structural code. Prerequisite: WLD162 with a grade of C or better; or equivalent industrial experience as determined by the program chair; or consent of program chair. Sp

WLD170 Oxyacetylene Processes 1 class and 6 lab hr/wk, 3 cr.
Familiarizes the student with the safe use, care, and operation of oxyacetylene welding, brazing, and cutting equipment. F

WLD173 Basic TIG Welding 1 class and 9 lab hr/wk, 4 cr.
Covers the fundamentals of tungsten inert gas (TIG) welding processes, machine setting, and application and development of inert gas welding skills. Includes welding of mild steel, aluminum, aluminum alloys, stainless steel, and magnesium. Prerequisite: Second-term standing in the Welding program; or consent of program chair. W

WLD177 Welding Processes 2 class and 6 lab hr/wk, 4 cr.
Introduces the fundamentals of shield metal arc welding, oxyacetylene welding and cutting, metallic inert gas welding (MIG), and arc-air procedures. W

WLD180 Metallurgy for Welders 2 class/hr/wk, 2 cr.
Studies basic metallurgy as it pertains to welding. Covers identification of ferrous metals and nonferrous metals. Includes mechanical properties, grain structure, and effects of heat. Sp

WLD197 Welding 1 class and 3 lab hr/wk, 2 cr.
Covers the fundamentals and application of arc welding, oxyacetylene welding, brazing, and cutting, as they pertain to the automotive industry. Prerequisite: Sixth-term standing in the Automotive Technology program; or consent of program chair. Sp

WLD256 Fabrication Practices 1 class and 7 lab hr/wk, 4 cr.
Studies of metal fabrication technology including, understanding weld distortion and control measures, along with the use and design of positioning and fixturing equipment commonly used in industry. Prerequisite: Fourth-term standing in the Welding Fabrication program; or consent of program chair. F
WLD257 Fabrication Practices 2
1 class and 7 lab hr/wk, 4 cr.
Studies of metal fabrication technology. Includes a comprehensive overview of economic and cost factors related to this field (equipment and consumable costs, labor costs), as well as time studies regarding various welding processes. Prerequisite: Fifth-term standing in the Welding Fabrication program; or consent of program chair. W

WLD258 Welding Shop Problems
2 class and 15 lab hr/wk, 7 cr.
Offers a review and application of the welding, layout, and fabrication processes covered during the year. Includes study and practice of production welding methods, electrode consumption, and method selection. Selected fabrication and assembly projects present typical layout, fabrication, and production problems. Prerequisite: Sixth-term standing in the Welding Fabrication program; or equivalent industrial experience as determined by the program chair; or consent of program chair. Sp

WLD270 Advanced Oxyacetylene Processes
4 lab hr/wk, 2 cr.
Studies safe use and care of oxyacetylene cutting and welding equipment, used for cutting, welding steel, and other ferrous alloys. Prerequisite: Fifth-term standing in the Welding Fabrication program; or consent of the program chair. W

WLD273 Advanced TIG Welding
4 lab hr/wk, 2 cr.
Continues WLD173. Provides additional practice to build and refine skills with the TIG welding process. Practical application of the TIG welding process to include welding on various thicknesses and shapes of aluminum, stainless, and carbon steel alloys. Prerequisite: Fifth-term standing in the Welding Fabrication program; or consent of program chair. W

WLD277 Advanced Welding Processes
4 lab hr/wk, 2 cr.
Continues the instruction and demonstration of advanced shielded metal arc welding (SMAW), metal inert gas welding (MIG), and air arc (AAC) procedures. Prerequisite: Fourth-term standing in the Welding Fabrication program; or consent of program chair. F

WLD280B-L Cooperative Work Experience
See CWE—Cooperative Work Experience

Writing
See also SSP—Study Skills

WR080 Basic Writing
3 class hr/wk, 3 cr.
Focuses on developing essential writing skills at the sentence and paragraph levels. Emphasizes fluency in the writing process through use of invention strategies, drafting, revising, and editing in order to produce organized and coherent writing. Prerequisite: Placement into WR080; and concurrent enrollment in XWR5350A; or consent of instructor. F, W, Sp

WR088 Introduction to Technical Writing 1
3 class hr/wk, 3 cr.
Introduces basic writing tasks and conventions associated with technical fields. Improves basic writing skills needed for effective workplace communication and assignments in career and technical education (CTE) programs such as Automotive Technology, Machining, and Welding. Recommended: CA121 with a grade of C or better. Prerequisite: Placement into WR088 or completion of WR080 with a grade of C or better; or consent of instructor. F, W, Sp

WR089 Introduction to Technical Writing 2
3 class hr/wk, 3 cr.
Serves as the report writing class for a vocational (non-transfer) track of study. Features the writing of a variety of reports, emphasizing clarity, coherence, conciseness, and accuracy, with a specific audience addressed. Includes memos, laboratory reports, narration reports, description and definition reports, process reports, and research reports. Prerequisite: WR088 with a grade of C or better; or equivalent course as determined by instructor; or consent of instructor. F, W, Sp

WR090 Fundamentals of Writing
4 class hr/wk, 4 cr.
Builds on development of skills presented in WR080, and requires more complex writing and critical thinking skills. Prerequisite: Placement into WR090, or completion of WR080 with grade of C or better; or consent of instructor. F, W, Sp

WR091 Writing Essentials
1 class hr/wk, 1 cr.
Details the fundamental structural components of writing. Primary focus is on parts of speech and sentence types. Secondary focus and eventual outcome is college-level editing skill. Offered as needed

WR092 APA Style Source Integration and Citation
1 class hr/wk, 1 cr.
Covers APA style paper format, clear source integration, and citation as a supplement to upper level college writing and writing intensive courses requiring research papers. Prerequisite: Placement into WR115, or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. Offered as needed

WR115 Introduction to Composition
4 class hr/wk, 4 cr.
Introduces the expectations of college-level writing, reading, and thinking. Students will learn the conventions and skills of college-level writing, practice analyzing, responding to, and making use of college-level texts, and will learn to think about the many ways and reasons writing projects are created. They will produce multiple kinds of writing projects for a variety of purposes and audiences. Prerequisite: Placement into WR115, or completion of WR090 with a grade of C or better. F, W, Sp, Su

WR121 Academic Composition
4 class hr/wk, 4 cr.
Writing 121, Academic Composition, focuses on college-level writing, reading, and thinking. Students will use the conventions and skills of college-level writing, including research and formal citations, to produce compositions including essays and at least one other genre, for a variety of purposes and audiences. The class will introduce multimodal composing strategies. Students will analyze, respond to, and make use of college-level texts. They will consider and reflect upon their own participation in the many ways and reasons compositions are created. Prerequisite: Placement into WR121; or completion of WR115 (or higher), with a grade of C or better. F, W, Sp, Su; IL
WR122 Argument, Research, and Multimodal Composition
4 class hr/wk, 4 cr.
Continues the focus of WR 121 in its review of rhetorical concepts and vocabulary, in the development of reading, thinking, and writing skills, along with metacognitive competencies understood through the lens of a rhetorical vocabulary. Specifically, students will identify, evaluate, and construct chains of reasoning, a process that includes an ability to distinguish assertion from evidence, recognize and evaluate assumptions, and select sources appropriate for a rhetorical task. Students will employ a flexible, collaborative, and appropriate composing process, working in multiple genres, and utilizing at least two modalities, one of which must be writing. Prerequisite: WR121 with a grade of C or better. F, W, Sp, Su; IL

WR227 Technical Writing
4 class hr/wk, 4 cr.
Covers a variety of reports and workplace writing. Addresses issues of organization, document supplements, bibliography, illustration, and document design. Emphasizes detailed, factual content, objective presentation, and a defined purpose for specific readers. Includes a research component calling for formal documentation. Prerequisite: WR121, WR122, or BA214. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su; IL

WR240 Creative Nonfiction
4 class hr/wk, 4 cr.
Introduces the basic elements of creative nonfiction, including memoir and researched essays; the process of creating nonfiction works; and the workshop system used to share and discuss the work of peers. Students will create and revise at least one new work of creative nonfiction, which may be either a short work or part of a longer project. Course may be repeated for a maximum of 8 credits. Prerequisite: WR121, WR122, or WR227; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

WR241 Fiction
4 class hr/wk, 4 cr.
Introduces the basic elements of the short story, the process of creating short stories, and the workshop system used to share and discuss the work of peers. Includes the creation and revision of at least one new short story. (Note: Focuses on short stories rather than novels or portions of novels.) Course may be repeated for a maximum of 8 credits. Prerequisite: WR121, WR122, WR227, or WR240; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, Sp

WR242 Poetry
4 class hr/wk, 4 cr.
Introduces the basic elements of poetry, the process of creating original poems, and the workshop system used to share and discuss the work of peers. Students will create and revise several new poems of their own. Course may be repeated for a maximum of 8 credits. Prerequisite: WR121, WR122, WR227, WR240, or WR241; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

WR243 Playwriting
4 class hr/wk, 4 cr.
Introduces the basic elements of play scripts, the process of creating original short plays, and the play lab system used to share and discuss the work of peers. Students will create and review at least one new short play of their own. Course may be repeated for a maximum of 8 credits. Prerequisite: WR121, WR122, WR227, WR240, WR241, or WR242; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

WR244 Advanced Fiction
4 class hr/wk, 4 cr.
Further develops the techniques of creating and revising short fiction introduced in WR241, and examines in greater complexity the foundational theories of imaginative writing. Also examines current methods of finding print and electronic audiences for works of fiction. Employs a workshop format of presenting and critiquing student work. Course may be repeated for a maximum of 8 credits. Prerequisite: WR241, WR242, or WR243; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

WR250 Writing for Children
4 class hr/wk, 4 cr.
Introduces the basic elements of children's literature writing, including picture books, nonfiction books, and young adult fiction. Includes the process of creating children's literature and the workshop system used to share and discuss the work of peers. Covers creating and revising one new work of children's literature. Course may be repeated once for credit. Prerequisite: WR121, WR122, WR227, WR240, WR241, WR242, WR243, WR244, or WR245; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

WR262 Screenwriting: Feature Films
4 class hr/wk, 4 cr.
Introduces the basic elements of the screenplay, the process of writing screenplays for feature-length films, and the workshop system used to share and discuss the work of peers. Includes reading a breadth of representative works, creating and revising the first act of a feature-length screenplay, and writing formal critical analyses. Course may be repeated for a maximum of eight credits. Prerequisite: Placement into WR121 (or higher); or completion of WR115 with a grade of C or better; or consent of instructor. W

Women’s Studies
WS101 Introduction to Women’s Studies
4 class hr/wk, 4 cr.
Introduces Women’s Studies, feminism, and the concept of gender. Focuses on the lives and status of women in the U.S. society and explores how social institutions such as family, work, media, education, and health/medicine affect different groups of women. Explores issues of gender, race, class, age, sexual orientation, size, and ability. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL

WS102 Women of the World
4 class hr/wk, 4 cr.
Examines women’s issues in a global context. Compares women’s lives from a cross-cultural perspective. Explores women’s lives within key social institutions. Focuses on human rights, globalization, environmental issues, and global stratification. Prerequisite: Placement into WR115 (or higher), or completion of WR090 (or higher) with a grade of C or better; or consent of instructor. F, W, Sp, Su; CL
Board of Education

Members of the Chemeketa Board of Education are elected to represent seven geographical zones in the college district.

Zone One—Ed Dodson
Zone Two—Ron Pittman
Zone Three—Neva Hutchinson
Zone Four—Ken Hector
Zone Five—Jackie Franke
Zone Six—Diane Watson
Zone Seven—Betsy Earls

Faculty and Administration as of July, 2019

This is a partial listing of Chemeketa Community College’s administration and faculty. It includes most of the people who are employed full time in instructional, coordinating, and administrative roles.

Check website for most current information.

Adichio, Eileen F—Instructor, Adult Basic Education
MED, ESOL The College of New Jersey
MA, Education University of California-Santa Barbara
BA, Physical Education California State University-Fresno

Aebi, Eric M—Instructor, Hospitality & Tourism Management
MBA, Business Administration Capella University
BA, Arts & Letters Portland State University

Aguirre, Blanca A—Counselor, Student Support Services
MS, Counseling Oregon State University
BA, Psychology Western Oregon University

Alexander, Karen L—Director, Student Accessibility Services
MA, Psychology National-Louis University
BA, Behavioral Science National-Louis University

Alvarez, Maria E (Cleo)—Counselor, Student Support Services
MS, Counseling Western Oregon University

Alvarez, Rory—Director, Facilities and Operations
Licensure, Journeyman Electrical Lane Community College

Antoine, Patricia L—Instructor, Sociology/Diversity
MS, Sociology Portland State University
BS, Sociology Portland State University
AA, Lower Division Collegiate Chemeketa Community College

Arbuckle, Chris A—Instructor, Emergency Medical Technology
AAS, Nursing Mt. Hood Community College
AAS, Paramedicine Chemeketa Community College

Archer, Angela S—Coordinator, TRIO SSS
MS, Academic Advising Kansas State University
BS, Biology Oregon Institute of Technology

Bailey, Christie N—Instructor-Nursing
PHD, Nursing Florida Atlantic University
MSN, Nursing Florida Atlantic University
BSN, Nursing Florida Atlantic University

Ballard, Justus D—Instructor, Composition/Literature
MFA, Creative Writing Antioch University
BA, English University of California-Los Angeles

Balyo, JM (Mike)—Instructor, History
MA, History Western Michigan University
BA, History The King’s College

Barber, Wayne G—Instructor, Mathematics
MS, Teaching: Mathematics University of Oregon
BS, Mathematics University of Oregon

Beach, Natalie D—Dean, Library & Learning Resources
MLS, Library Science Rutgers
MA, Humanities: History of Ideas University of Texas-Dallas
BA, English Rutgers

Bean Joseph S—Instructor, Life Science
MD, Medicine University of Virginia
BS, Interdisciplinary Studies College of William & Mary

Beausoleil, Deanne G—Instructor, Art History
MFA, Art History Savannah College of Art & Design
BFA, Art History Savannah College of Art & Design

Beavert, Karie L—Instructor, Reading/Study Skills
MAT, Reading Education George Fox University
BA, Law University of California-Santa Barbara

Behmard, Sheeny L—Instructor, Mathematics
BS, Math Science: Statistics Eastern Kentucky University
MS, Statistics Oregon State University
BA, Mathematics Berea College
BA, Physics Berea College

Belmodis, Cassie S—Dean, Health, Human Performance & Athletics
BA, Physical Education Willamette University
BA, Psychology Willamette University

Bermingham, Jordan M—Director, Corrections Education
MS, Education Portland State University
BA, Psychology American University

Bernhisel, Donna J—Instructor, English/Writing
PHD, Education Oregon State University
MA, English Utah State University
BS, Social Work Brigham Young University

Bledsoe, Karen E—Instructor, Life Science-Biology
PHD, Science Oregon State University
MAT, Teaching Program Willamette University
BS, Biology Willamette University

Borden, Tiffany E—Counselor, Student Support Services
MS, Counseling Western Oregon University
BA, Liberal Arts Stephens College

Brase, Donald L (Don)—Executive Dean, General Education & Transfer Studies
MA, English University of Montana
BA, English University of Washington

Brewer, Kevin W—Instructor, Center for Individual Learning
MA, Education Antioch University
BS, Business-Mathematics Southern Oregon University
BS, Business Administration Southern Oregon University

Buckholz, Cheryl J—Instructor, Pharmacy Technician
PHD, Pharmacy Oregon State University
BS, Botany Oregon State University

Budke, Michael G—Coordinator, Corrections Education
MS, Management/Organizational Leadership Warner Pacific College
BS, Political Science Oregon State University

Bunch, Kathleen (Katie)—Director, Business Services
BS, Business Administration/Accounting Humboldt State University

Bunnennberg-Boehmer, Kay—Instructor, Arts, Literature
MFA, Painting San Francisco Art Institute
BA, Art Sonoma State University

Burke, Michele LH—Reference Librarian
MLS, Library Science Emporia State University
BA, Philosophy Portland State University
Burns, Barbara A—Instructor, Nursing-Clinical
MSN, Education United States University
BSN, Nursing Oregon Health Science University

Burtis, Kerry P—Instructor, Music
Doctor of Musical Arts University of Southern California
Master of Music University of Southern California
BA, Music Augustana College

Butzner, Alexis M—Instructor, English
PHD, English Fordham University
MA, English Literature Fordham University
BA, Liberal Arts/Philosophy The New School-Eugene Language College

Caleffi Prichard, Viviani (Vivi)—Diversity and Equity Officer
MBA, Business Administration George Fox University
BA, Mass Communication/Journalism Centro Universitario do Sul de Minas

Cammack, Janice H (Jan)—Instructor, Physical Science
PhD, Chemistry Oregon State University
BS, Chemistry George Fox University

Camp, Reanna L—Instructor, Physical Science
MS, Geology East Carolina University
BS, Geology University of Nebraska

Canoy, David W—Instructor, Life Science
MS, Zoology Oregon State University
BS, Biology Western Oregon University
BS, Secondary Education Western Oregon University

Chernoh, Erica K—Instructor, Horticulture OSU/Chemistry
MS, Science University of California-Davis
BA, Geography Humboldt State University
AA, Liberal Arts Los Medanos College

Cheyne, Larry D—Dean, Applied Technologies
MS, Sport Management California University of Pennsylvania
BA, English Drake University

Christensen, Autumn—Instructor, Life Science
MS, Geology Central Washington University
BA, Chemistry/Geology Gustavus Adolphus College

Christie, Jonathan E—Instructor, Life Science
MS, Botany & Plant Pathology Oregon State University
BS, Botany Oregon State University
CERT, Russian Studies Oregon State University

Clark, Corey R—Instructor, Pharmacy Technician
AAS, Pharmacy Management Chemeketa Community College
CERT, Pharmacy Technician Chemeketa Community College

Claysmith, Christopher S—Instructor, Astronomy-Planetarium
MA, Astronomy Boston University
BS, Physics Oregon State University

Cobb, Nolan (Nol)—Coordinator, Applied Technologies
MBA, Human Resources Management University of Phoenix
BS, Information Technology University of Phoenix

Cogswell, Megan—Director, Apprenticeship
MS, International Studies University of Oregon
BA, Geography Oregon State University

Colantino, Kimberly A (Kim)—Instructor, English
MS, English Washington State University
BA, Literature George Fox University

Collins, Aileen M—Instructor, Psychology
MS, Psychology University of Georgia
BA, Psychology University of Georgia

Colon-Cortes, Eric L—Instructor, Physical Education
MS, Exercise and Sport Science Oregon State University

Cortez, Julio—Counselor, Student Support Services
MS, Counseling-Rehabilitation Western Oregon University
BA, Psychology Western Oregon University

Cotter, Kerry N—Instructor, Chemistry
MS, Chemistry Arizona State University
BS, Chemistry University of Puget Sound

Couch, Daniel E—Instructor, English
MA, English Portland State University

Covey, Brian L—Instructor, Automotive
AAS, Automotive Technology Mt. Hood Community College

Crawford, LeAnna R—Instructor, English
MA, Creative Writing Antioch University
BA, English University of Northern Colorado

Crossler-Laird, Janice (Jannie)—Instructor, English as a Second Language
MED, Adult Education Oregon State University
BA, German Pacific Lutheran University
BA, Social Sciences Pacific Lutheran University

Cruse, Maria T—Instructor, Political Science
MA, Political Science University of Texas-Arlington
JD, Law Cornell University

Csaky, Sara C—Instructor, Education Programs
MAT, Teaching Western Oregon University
BA, Educational Psychology Dr. Domingo Cabred College

Cudmore, Wynn W—Instructor, Life Science
PHD, Life Sciences: Ecology Indiana State University
BS, Biology Northeastern University

Darby, Sydney L—Instructor, English
MA, English Boston College
BA, English Portland State University

Davis, Cheryl M—Instructor, Health Information Management
MBA, Health Education George Fox University
BS, Health Education University of Oregon

Davis, Paul A—Director, Career and Technical Education,
Yamhill Valley Campus
MS, Adult Education & Training University of Phoenix
BS, Education Andrews University

Davis, Jr., Peter C—Instructor, Human Services
Doctor of Behavioral Health Arizona State University
MSW, Community Mental Health Northwest Nazarene University
BA, Anthropology Idaho State University
Master of Health Education Idaho State University
BA, International Studies Idaho State University

Dennison, Sara R—Instructor, English
MA, English Bemidji State University
BFA, Creative/Professional Writing Bemidji State University
BA, Spanish Bemidji State University

Dishong McCormack, Michele D—Instructor, Communication
MA, Communications Washington State University
BA, English and Speech Communication Chadron State College

Ditterick, Pamela (Pam)—Instructor, Early Childhood Education
MA, Early Childhood Education Concordia University-St. Paul
BA, Psychology-Family Studies Corban College
AA, Early childhood Education Chemeketa Community College
Dougherty, Rebecca E—Instructor, Hemodialysis Technician
CERT, Hemodialysis Practitioner
Board of Nephrology Examiners, Nursing & Technology

Drapela, Nicholas E—Instructor, Physical Science
PhD, Chemistry Oregon State University

Duarte, Moises E—Instructor, Alternative High School
MA, English California State University-Long Beach
BA, English (Literature) California State University-Long Beach

Dwyer, Scott T—Instructor, Winemaking
BS, Biochemistry Virginia Polytechnic Institute & State University
CERT, Public Health Sciences University of Virginia

Dye, Kevin R—Instructor, Composition/Literature
PhD, English University of New Mexico
MA, English Western Washington University
BA, English New York University
AA, Liberal Arts Nassau Community College

Eagles, Shannon C—Coordinator, Library Technology Services
MLIF, Library and Information Studies International Colleges
BA, Arts and Letters; French Portland State University

Edwards, Karen D—Instructor, Business Management
Programs
MBA, Business & Administration Willamette University
BA, History Willamette University

Ellis, Jane B—Instructor, Health Information Management
MPE, Physical Education Lewis & Clark College
BSE, Physical Education Western Oregon University
AAS, Medical Records Technology Portland Community College

Emme, Larry M—Instructor, Physical Science
MS, Chemistry Portland State University
BS, Chemistry Portland State University

Ensminger-Stapp, Colin W—Instructor, Learning Technologies
Facilitator
MET, Educational Technology Boise State University
CERT, On-line Teaching Boise State University
BA, Telecommunications Pacific University
AAS, Television Production Technology Mt. Hood Community College

Eustrom, James L (Jim)—Vice President-Instruction & Student Services/Campus President—Yamhill Valley
MED, College Student Services Administration Oregon State University
BA, Sociology Willamette University

Evans, Michael A (Mike)—Dean, Student Retention & College Life
MS, Counseling Western Oregon University
BS, Psychology Corban College
AA, Refrigeration/Heating/Air Conditioning Linn-Benton Community College

Evans, Paul L—Instructor, Communications
MAT, Teaching Lewis and Clark College
MA, English Portland State University
BA, English University of Arizona

Ewing, Demitrus D—Instructor, Psychology
MS, Psychology Oakland University
BS, Psychology Grand Valley State University

Finholt, James A—Instructor, Computer Information Systems
MBA, International Business
BA, Economics Our Lady of the Lake University

Fleming, Garth A—Instructor, Mathematics
MAT, Mathematics Portland State University
MS, Education-Secondary University of Western Sydney
BS, Industrial Mathematics University of Western Sydney

Frank, Andrew J (Andy)—Instructor, Physical Science
Geology
PHD, Geology University of Texas-Austin
MS, Geology Northern Arizona University
BA, Geology University of the Pacific

Frank, Andrew S (Andy)—Instructor, Drafting-Structural
BS, Engineering Oregon State University
AAS, Civil Engineering Technology Chemeketa Community College

Frankamp, Benjamin L (Ben)—Instructor, Chemistry
PHD, Chemistry University of Massachusetts-Amherst
BS, Chemistry George Fox University

Frey, Melissa A—Dean, Student Recruitment, Enrollment & Graduation Services
EDM, College Student Services Administration Oregon State University
BS, Business Administration Oregon State University

Friedman, Esther J—Special Education Diagnostician
MA, Special Education Western Oregon University
MA, Bilingual Education Western Oregon University
BA, Elementary Education/Interpreting Western Oregon University

Friel, Jessica M—Instructor, Biology
MS, Molecular Genetics and Biophysics University of Colorado Health Sciences Center
BS, Zoology University of Colorado-Denver
CERT, Secondary Science Teaching Licensure University of Colorado-Denver

Furey, Kevin P—Instructor, Economics
PHD, Economics University of Washington
BA, Chemistry California State University
CERT, Secondary Science Teaching Licensure Oregon State University

Galey-Oldham, Denise—Associate Dean, First Year Programs
EDM, College Student Services Administration Oregon State University
BA, Liberal Studies California State University Fullerton

Gastoni, William J (Bill)—Instructor, Corrections
Ed- Automotive
CERT, 1000 hrs. Specialist: Masters Pro Ford Motor Credit Technical School
CERT, 200 hrs. Corrections Oregon Police Academy

Goldblatt, Heather N—Instructor, Adult Basic Education
MAT, Education Marylhurst University

Gonzalez, Megan E—Instructor, Criminal Justice
BS, Chemistry/Forensic Science Western Oregon University

Goodyear, John M—Executive Director, Cooperative Regional Library Service
MS, Instruction Systems Technology Indiana University-Bloomington
BA, Telecommunications Indiana University-Bloomington

Gort, Benjamin A (Ben)—Instructor, Mathematics
MS, Mathematics Wichita State University
BS, Math Sciences/Mathematics Virginia Commonwealth University

Grassman, Gary M—Instructor, Welding/Fabrication
AAS, Manufacturing Engineering Technology Chemeketa Community College
AAS, Welding Fabrication Chemeketa Community College
Greco, Stephen D (Steve)—Instructor, Electronics
MS, Engineering-Mechanical Virginia Polytechnic Institute
BS, Engineering-Mechanical Virginia Polytechnic Institute

Greene, Peggy—Coordinator-StEPS Grant
MBA, Non-profit Management Willamette University
BA, Economics Willamette University
AAOT Chemeketa Community College
AS, Business Chemeketa Community College

Grotewohl, Herbert A

Grew, Heidi—Instructor, Art
MFA, Ceramics Ohio University
BFA, Crafts University of Illinois-Urbana-Champaign
BFA, History of Art University of Illinois-Urbana-Champaign
BA, Germanic Language & Literature University of Illinois-Urbana-Champaign

Hale, Elizabeth E (Beth)—Learning Technologies Facilitator
MA, Education-Curriculum & Instruction University of Washington
CERT, ESL Initial Teaching Certificate Seattle University
BS, Political Science University of Washington

Halkett, Genevieve N—Instructor, English as a Second Language
MAT, ESOL SIT Graduate Institute
BA, English University of North Carolina

Hallett, David J—Vice President, Governance & Administration
JD, Law University of Akron
BA, English State University of New York
AAS, Communications Cayuga Community College

Hardesty, David S—Instructor, Adult Basic Education
MS, Education: Policy Foundation & Administration Portland State University
BA, Psychology Southern Methodist University

Hastings, Sara HM—Dean, High School Partnerships
MED, School Counseling & Guidance University of Arizona
BA, Communication University of Arizona

Hattman, Alissa S—Instructor, Developmental Writing
MA, English Literature Portland State University
MFA, Writing Pacific University
BA, Literature & Writing Evergreen State College

Hendrix, Paula J—Coordinator, Health Sciences
MED, Curriculum & Instruction Concordia University
BA, Dental Hygiene Oregon Health Sciences University

Healey, Lisa M—Instructor, Mathematics
MAT, Teaching Program Willamette University
BS, Mathematics Willamette University
AB, Physics Bard College

Heater, Kelsey J—Instructor, Mathematics
MED, Curriculum & Instruction University of Phoenix
BS, Mathematics Portland State University

Herman, Silvia C—Instructor, Spanish
MA, Spanish University of Oregon
BA, Linguistics University of Oregon
AAOT Mt. Hood Community College

Herrera-Perez, Eusebio P—Counselor, Student Support Services
MSW, Social Work Portland State University

Hibbler, Duane M—Instructor, CAD/CAM
AS, Industrial Mechanical Technology Chemeketa Community College

Hiatt, Jonathan R—Instructor, Computer Information Systems
MS, Computer Science Colorado State University
BS, Business Information Systems Linfield College
AA, Drafting Central Oregon Community College

Hillis, H. David—Instructor, Mathematics
BA, Mathematics Colorado School of Mines
BS, Engineer Physics Colorado School of Mines

Hilley, Rebecca L—General Counsel
JD, Law Willamette University
BS, Social Studies Education Oregon State University
BS, Psychology Western Oregon University

Hodgson, Matthew J—Instructor, Composition/Literature
MA, English Portland State University
BA, English/Comparative Literary Studies Occidental College

Hodgson, Traci A—Instructor, History
PHD, History Boston University
MA, History Boston University
BA, History University of Kansas Main Campus

Hoerauf, Kate M—Instructor, Visual Communications
BS, Psychology Oregon State University

Hoelter, Peter L—Instructor, Visual Communications
BS, Psychology Oregon State University

Hoffar, Abigail (Abby)—Dean, High School Partnerships/ Academic Development
BS, Social Sciences Western Oregon University

Hoffman, Danielle A—Director, Student Services YVC
MA, Counseling Lakeland University
BS, Consumer Science University of Wisconsin-Madison

Horinbrook, Debra K (Debbie)—Instructor, Communication
EDD, Educational Leadership: Curriculum & Instruction Portland State University
MS, Speech Communication Portland State University
BS, Psychology Portland State University

Houghton, Stanley R (Stan)—Instructor, Business Technology
MBA, Business Administration George Fox University
BA, Management & Organizational Leadership George Fox University

Howard, Jeffrey L—Counselor, Student Support Services
MS, Rehabilitation, Counseling & Deafness Western Oregon University
BS, Interdisciplinary Studies Western Oregon University
AAS, Finishing Optical Technician Rochester Institute of Technology

Howard, Jessica H—President/Chief Executive Officer
PHD, Performance Studies New York University
MMUS, Music Theory Rice University, Shepherd School of Music
BA, English Rice University
BMUS, Music Theory Rice University, Shepherd School of Music
AA, Music San Antonio College

Hudspeth, Phillip W—Director of Development-Foundation
BS, Planning, Public Policy & Management University of Oregon
AAOT Lane Community College
Hughes, Mary T—Instructor, English as a Second Language
MA, TESOL Seattle Pacific University
BS, Business Administration-International Business Rochester Institute of Technology

Jabin, Tammy L—Instructor, English
MA, English Portland State University
BA, English Willamette University
AIAOT, Lower Division Oregon Transfer Chemeketa Community College

Jensen, Erik L—Instructor, Physical Science
MS, Physics Oregon State University
BS, Physics Portland State University

Johnson, Bradley D (Brad)—Instructor, Adult Basic Education
MMUS, Music University of Maryland College
BA, Music Oregon State University

Jones, Jason W—Instructor, Business Law
JD, Law University of Oklahoma Norman
MA, History Oklahoma State University
BA, History Education University of Central Oklahoma

Johns, Jennifer S—Instructor, Life Science
PHD, Ecology and Evolution Rutgers
BA, Biology and German Duke University

Johnson, Bradley D (Brad)—Instructor, Adult Basic Education
MMUS, Music University of Maryland College
BA, Music Oregon State University

Jones, Jason W—Instructor, Business Law
JD, Law University of Oklahoma Norman
MA, History Oklahoma State University
BA, History Education University of Central Oklahoma

Kaplan, Teter—Coordinator, International Education
BA, Spanish University of Oregon
AA, Speech Communication Clatsop Community College

Karbinskey, Darrel E—Instructor, Computer Information Systems
MSE, Information Technology Western Oregon University
BS, Computer Sciences Western Oregon University
AA, Lower Division—Oregon Transfer Chemeketa Community College

Kato, Christopher T (Chris)—Director, ABE/GED/ESOL
MA, Linguistics University of New England
MA, Education University of Phoenix
BS, Biology Brigham Young University-Hawaii

Keechle, Brian S—Instructor, Welding/Fabrication
AAS, Welding Technology Clackamas Community College
AA, General Studies Clackamas Community College

Keeling, Matthew J—Instructor-Mathematics
MS, Mathematics Oregon State University
BS, Mathematics Southern Oregon University

Kellogg, Sandra (Sandi)—Dean, Health Sciences
MSN, Nursing University of Phoenix
BSN, Nursing Boise State University

Kelly, Michael P (Mike)—Instructor, Drafting, Architecture
AS, Drafting Chemeketa Community College
Kittelsson, Lorene F—Instructor, Nursing
MSN, Leadership in Health Care Systems Grand Canyon University

Klein, William R (Bill)—Instructor, Fire Protection Technology
AAS, Fire Protection/Fire Suppression Chemeketa Community College

Kohlmeyer, William (Bill)—Director, Public Safety
AA, Law Enforcement Chemeketa Community College
CERT, School of Staff and Command NW Traffic Institute
CERT, Executive Development OEDI DPSST Certificates

Kraus, Donald D (Don)—Instructor, Computer Information Systems
MS, Education Western Oregon University
BS, Business Western Oregon University
BS, Computer Sciences Western Oregon University
AS, Business Administration: Management Portland Community College

Kuhn, Gary D—Cooperative Work Experience Coordinator
MS, Teaching & Training Online Capella University
BS, Speech Communication Southern Oregon University

Landa-Villalba, Liliana L—CAMP Coordinator
MA, Counseling Corban University
BA, Psychology Willamette University

Landor, Gregg W—Instructor, Emergency Medical Technology
BS, Liberal Studies Oregon State University
CERT, Paramedic Training Oregon Health Sciences University

Lanning, Erika P—Instructor, Early Childhood Education
MA, Marriage & Family Therapy Northwest Christian University
BS, Psychology University of Oregon

Larsen, Melissa R (Raschel)—Instructor, Physical Education
MPH, Health Promotion & Education Oregon State University
BA, Health Education Linfield College

LaVine, Philip (Phil)—Instructor, Farm Business Management
MS, Agricultural Economics New Mexico State University
BS, Agricultural Business California State University Fresno

Lazzara, Edward J (Ed)—Instructor, Spanish
MA, Romance Linguistics & Literature University of California-Los Angeles
BS, Mathematics Montclair State College

Leon-Cipriano, Laura J—Coordinator, HEP
BA, Social Science Western Oregon University
BA, Spanish Western Oregon University

Lenox, Stephanie B—Instructor, Chemeketa Press
MFA, Creative Writing University of Idaho
BA, English Whitworth University

Limbird, Marty W—Instructor, Physical Education
MAT, Education University of Portland
BA, Athletic Training Linfield College

Liss, Layli—Instructor, Reading/Study Skills
MED, Education University of St. Thomas
BA, International Studies DePaul University

Lomax, Jillian M—Instructor, Dental Assisting
MA, Adult Education Oregon State University
BS, Interdisciplinary Studies: Health & Social Science Western Oregon University
AAOT, Dental Assisting Program Chemeketa Community College

Lopez, Carlos A—Instructor, Sociology
MA, Sociology University of Georgia
BA, Sociology University of North Carolina
AA, General Studies Asheville-Buncombe Technical Community College

Lorance, Sheila R—Interim Director, Public Safety
BA, Corrections, Sociology Western Oregon University

Lyell, Kiva M—Instructor, Emergency Medical Technology
BS, Law Enforcement Western Oregon University
CERT, Emergency Medical Technician Chemeketa Community College
AAOT, General Studies Chemeketa Community College
Mack, Johnny L—Executive Dean, Career & Technical Education
BS, Fire Services Administration
Eastern Oregon University
AAOT, General Studies Chemeketa Community College
AAS, Fire Protection Technology Chemeketa Community College

Mack, Laura—Instructor, Art
MFA, Fine Arts (Painting) Southeastern University of Massachusetts-Dartmouth
BFA, Art Studio Tufts University

MacLean, Christopher L—Instructor, Psychology
MA, Psychology University of Georgia
BS, Psychology University of Georgia

Maksun, Leslie M—Instructor, Mathematics
MS, Mathematics University of South Alabama
BS, Mathematics Oregon State University

Malley, Bret—Instructor, Visual Communications
MA, Computer Art and Transmedia Syracuse University
BA, Film and Digital Media University of California-Santa Cruz

Mariger, Heather A—Instructor-Accessibility Advocate
PHD, Instructional Technology Utah State University
MS, Institution Management Kansas State University
BA, Hotel/Restaurant Administration University of Nevada-Las Vegas
AA, Culinary Arts Paul Smith College

Marrow, Taylor A—Instructor, History
MA, History Ball State University
BA, History Indiana University
BA, Telecommunications Indiana University

Martin, Kimberly G (Kim)—Counselor, Student Support Services
MS, Counseling: Rehabilitation Counseling with the Deaf Western Oregon University
BA, Education of Hearing Impaired University of Northern Colorado

Masters, Christa K—Instructor, Adult Basic Ed
BA, Education: Special Education Eastern Washington University

Mathis, Jon—Director for Professional Development/Title IX Coordinator
PHD, Candidate Azusa Pacific University
MED, College Student Affairs Azusa Pacific University
BA, Communication Biola University

McDaniel, Heather M—Assistant Director, Human Resources
MA, Conflict Resolution Portland State University
BA, Humanities Western Oregon University

McLaran, Diane L—Executive Director, Center for Business & Industry
BA, Management & Organizational Leadership Northwest Christian College
AS, Early Childhood Education Lane Community College

McLearn, Brian M—Instructor, Automotive
AAS, Automotive: Ford Asset Mt Hood Community College

McNicholas, James P—Coordinator, Accelerated Pathways to Success
BA, History, Spanish University of Oregon

Medyanik, Kristine K—Coordinator, eLearning & Academic Technology
PHD, Business Administration-Specialty: Organizational Psychology Northcentral University
MBA, Business Administration University of Phoenix
BSBA, Business Administration-Finance Old Dominion University

Meiner, Karl J—Instructor, High School Programs
MAT, Teaching Lewis and Clark College
MA, English Portland State University
BA, English University of Arizona

Mennig, Adam J—Coordinator, Vocational ESL
MSED, Student Affairs Administration in Higher Education University of Wisconsin-La Crosse
BA, History-Secondary Education Endorsement Clarke University

Merzenich, Timothy A (Tim)—Instructor, Mathematics-Learning Center
BS, Mathematics Oregon State University

Miller, Angela G (Angie)—Coordinator, Library Services
Course Work, Travel Operations Chemeketa Community College

Miller, Glen A—Director, Polk Center
MED, College Student Services Administration Oregon State University
BS, Psychology/Human Services Corban College
CERT, Career Development/Facilitator Training Chemeketa Community College

Mitchell, Nolan E—Instructor, Mathematics
MA, Mathematics Oregon State University
BS, Mathematics Western Oregon University

Mohn-Brown, Elaine L—Instructor, Nursing
EDD, Educational Administration Brigham Young University
MA, Health Education University of Northern Colorado
BA, Health Education University of Northern Colorado
BS, Nursing Metropolitan State College
DIPL, Nursing Akron General Hospital and School of Nursing

Monson, Bryan R—Instructor, Business Technology
MED, Education Oregon State University
BS, Secondary Education Eastern Oregon University

Montgomery, Jennifer R—Instructor, Anthropology
MA, American Indian Studies University of Arizona
BS, Anthropology University of Oregon

Monte, Cecelia C—Dean, Education, Languages & Social Sciences
EDD Education University of Portland
MS, Education Portland State University
BA, English Lewis and Clark College

Moore, Dorothy—Faculty Grant Associate
PHD, Curriculum & Instruction University of Nevada-Reno
BS, Education University of Nevada-Reno

Morrison, Peggy S—Coordinator, High School Programs
MA, Christian Counseling Psychology Western Evangelical Seminary

Moxley, Douglas J (Doug)—Manager, Web Services
BS, Psychology Western Oregon University
AA, General Studies Chemeketa Community College
AS, Food Sciences & Technologies Chemeketa Community College
Munson, Clifford W (Cliff)—Instructor, Fire Protection Technology  
BED, Vocational Education  
California State University-Long Beach  
AS, Fire Science  
Long Beach City College

Murphy, Bernadette—Instructor, Nursing  
MSN, Nursing Education  
University of Phoenix  
MBA  
City University  
BSN, Nursing  
San Jose State University

Myers, Michael J (Mike)—Instructor, Welding/Fabrication  
AS, Welding  
Chemeketa Community College

Nelson, Holly D—Instructor, Physical Science  
BA, Chemistry  
Central University of Iowa

Nelson, Holly D—Executive Dean, Academic Progress & Regional Education Services  
MAT, Health Education  
Western Oregon University  
BA, Health Education  
Western Oregon University

Newton, Kristi K—Instructor, Business Management  
MBA, Business Administration  
University of Portland  
BS, Business Administration  
Oregon State University

Nile, Sara C (Christine)—Instructor, English as a Second Language  
MA, Education & ESL  
California State University-Chico  
CERT, Italian Language  
Eurocentro Language Institute-Florence, Italy  
BA, Liberal Studies and Teaching Credential  
California State University-Sacramento

Noah, Mark W—Occupational Skills Training Coordinator  
BS, Biology  
University of Oregon  
AS, Biology  
Lane Community College  
CERT, Career Development Facilitator

Nolan, Dana R—Instructor, Health Information Management  
AA, Health Information Management  
Portland Community College

Northam, Ashley A—Instructor, Speech-Language Pathology Assistant Program  
MS, Speech & Hearing Science  
Portland State University  
BS, Speech & Hearing Science  
Portland State University  
AA, General Studies  
Sierra College

Nunez, Celia—Director, Small Business Development Center  
MBA, Administration  
George Fox University  
BA, Management  
George Fox University

O’Hara, Richard K (Rick)—Instructor, Life Science  
PHD, Zoology  
Oregon State University  
MS, Zoology  
Michigan State University  
BS, Zoology  
Michigan State University

Olheiser, Samuel T (Sam)—Instructor, Automotive  
AAS, Automotive Technician  
Chemeketa Community College

Olson, Kevin J—Instructor, GED Options/High School Programs  
MAT, Teaching  
Western Oregon University  
BA, English  
Western Oregon University

Othus-Gault, Shannon M—Instructor, Physical Science/Geology  
MS, Geology  
Central Washington University  
BA, Geology-Environmental Studies  
Whitman College

Padilla, Aspen—Tutoring Center Coordinator  
MS, Museum and Field Studies  
University of Colorado  
MS, Ecology and Evolutionary Biology  
Iowa State University  
BS, Geosciences  
University of Arizona

Patterson, Steven J (Steve)—Director, Community Education  
MED, Recreation & Leisure Studies  
University of Minnesota

Payne, Eva M—Instructor, Communication Skills  
MA, English  
Oregon State University  
BA, English  
Oregon State University

Petschauer, Denise M—Instructor, GED Options/HS Programs  
MA, Education  
Concordia University  
BA, Mathematics  
California State University-LA  
CREDENTIAL, Mathematics  
California State University-LA  
Certificate, Cross-Cultural, Language & Academic Development  
California State University-LA

Pilette-Stephens, Debra A—Instructor, Criminal Justice  
BS, Corrections  
Western Oregon University  
BS, Physical Education & Health  
Western Oregon University  
BS, Secondary Education  
Western Oregon University

Plaisance, Ricky N (Doc)—Instructor, Adult Basic Ed  
MFA, Theater Arts  
Louisiana State University  
MS, Educational Administration  
National University  
BS, Mass Communications  
McNeese State University  
BS, General Studies  
United States Naval Academy

Powers, Kristina C (Kris)—Instructor, Psychology  
MA, Counseling Psychology  
Lewis & Clark College  
BS, Business Administration  
Oregon State University

Prange, Teresa M—Instructor, Accounting  
MBA, Business Administration  
Maharishi International University  
BA, Interdisciplinary Studies  
Maharishi International University  
CERT, Secretarial Studies  
Chemeketa Community College

Pratt, Nathan C—Instructor, Physical Education  
MS, Health Education  
Western Oregon University  
BA, Social Studies  
St. Martin’s University  
AAOT  
Lane Community College

Prentice-Craver, Cynthia A (Cindy)—Instructor, Life Science  
MS, Education Curriculum & Instruction  
Portland State University  
BS, Physical Education  
Oregon State University

Protiva, Karen W—Instructor, Life Science  
PHD, Human Performance  
Oregon State University  
MS, Physical Education  
George Mason University  
BS, Kinesiological Sciences  
University of Maryland College

Radu, Kara M—Instructor, Dental Assisting  
BS, Human Services  
University of Phoenix  
AAOT, Lower Division Transfer  
Chemeketa Community College  
CERT, Dental Assisting  
Chemeketa Community College
Ramirez-Trevino, Cheila O—Instructor, English as a Second Language
MA, Bilingual/Multicultural Education University of Arizona
BS, Human Development California Polytechnic State University
AA, General Education Ventura County Community College

Reed, Eric—Instructor, American Sign Language
MED, Early Childhood Education Lewis & Clark College
BA, Education of Hearing Impaired University of Tulsa

Reininger, Mandy E—Instructor, Computer Information Systems
MSM, Information Systems Management Keller Graduate School of Management
BA, Communications State University of New York—Genesco CED, Networking Systems University of Phoenix

Richardson, Steven R (Steve)—Director, Chemeketa Press
MFA, Literature: Creative Writing University of Oregon
BA, Literature: Creative Writing University of California-Santa Cruz

Rieman, Richard E—Instructor, Mathematics
MS, Mathematics University of Texas-San Antonio
BS, Mathematics University of Texas-San Antonio

Riley, Wendy—Instructor-Visual Communication
MFA, Studio Art Florida State University
BFA, Photography Savannah College of Art & Design

Roache, Marshall M—Dean, Emergency Services
MA, Liberal Studies Fort Hays State University
BA, English University of Oregon

Rogers, Doug P—Instructor, Automotive
AAS, Automotive Technology Chemeketa Community College
Continuous Training-Multiple Categories General Motors Center of Learning/Service Technical College

Rollins, Bryan D—Instructor, Adult Basic Education
MA, TESOL Portland State University
BA, Spanish Western Oregon University

Rupert, Jill N—Instructor, English
PHD, English Tulane University of Louisiana
MA, English Tulane University of Louisiana
BA, English Whitman College

Russell, Keith A—Dean, Liberal Arts
PHD, English Southern Illinois University
MA, English/TESOL Southeast Missouri State University
BA, English Northeast Missouri State University

Sadouk, Jennifer J— Instructor, Reading/Study Skills
MA, Continuing and College Education Western Washington University
TESOL Certificate Western Washington University
BA, History University of Texas-Tyler
AA, Transfer Degree Trinity Valley Community College

Salinas-Oliveros, Rebecca—Cooperative Work Experience Coordinator
MS, Education: Policy Foundation & Administration Portland State University
BS, Human Development & Family Science Oregon State University

Sandrock, Jessica H—Director, Agricultural Sciences & Wine Studies
MS, Horticulture Science Oregon State University
BS, Horticulture Science Oregon State University

Scharer, Miriam R—Associate Vice President/Chief Financial Officer
MA, Education: Policy Foundation & Administration Portland State University
BS, Business Western Oregon University

Schellenberg, Kellie S—Dean, Academic Innovation
MBA, General Management Marylhurst University
BA, Psychology University of Regina

Schilling, Joleen M—Instructor, Horticulture
MS, Environmental Science Oregon State University
BS, Horticulture Oregon State University

Schloeman, Keith D—Instructor, Mathematics
MS, Mathematics Oregon State University
BS, Mathematics Western Oregon University

Schnieder, Sheldon J—Instructor, CAD/CAM
AAS, Manufacturing Engineering Technologies-Mfg. Tech Chemeketa Community College

Scholer, Andrew—Instructor, Computer Science
MS, Computer Sciences University of Southern California
BS, Science University of California-Los Angeles

Schramm, Jennifer E—Instructor, Life Science
PHD, Biology: Plant University of California-Berkeley
BA, Biology Knox College

Schreiber, Meredith A—Director, Auxiliary Services/Bookstore
BA, History Oregon State University

Scorfie, Mary Ellen M—Program Review and Accreditation Specialist
MA, English Portland State University
BA, History Mount Holyoke College

Scott, Laura L—Instructor, Developmental Writing
MA, Anglo-Irish Literature Trinity College-Dublin
BA, English Literature/Spanish Language Pacific University College of Ireland

Sekafetz, Charles O (Chuck)—Instructor, Electronics
MBA, Master of Business Administration Marylhurst University
BS, Business Management Marylhurst University
AAS, Electronic Engineering Chemeketa Community College

Sessions, Patricia M (Patti)—Instructor, Business Technology
PMSC, Computers in Education University of Oregon
MS, Business Education Montana State University
BS, Business Montana State University

Sharpe, Michie—Instructor, Japanese
MA, Japanese Language & Pedagogy University of Oregon
BA, Music Education University of Oregon

Smith, Emerald R (Emi)—Coordinator, Enrollment Services
BA, English/Spanish Willamette University

Smith, Kevin D—Instructor, Composition/Literature
PHD, English University of Illinois-Chicago
MA, English University of Illinois-Chicago

Solomon, Avelino V (Lino)—Coordinator, Talent Search & Upward Bound
MBA, Business Administration Texas A&M University-Commerce
Sprague, Alice M—Director, Human Resources
BS, Social Sciences Portland State University
AA, Lower Division Transfer Chemeketa Community College
Sparks, Rebecca T—Instructor, Nursing
MSN, Nursing Education Western Governors University
BS, Nursing Western Governors University
BS, Interdisciplinary Studies Southern Oregon University
AS, Nursing Southern Oregon University
Stahl, Jessica (Jess)—Dean, Curriculum, Instruction & Accreditation
PHD, Behavioral Health Arizona State University
MS, Health Economics Policy, & Management London School of Economics & Political Science
Master of Counseling, Clinical Mental Health Arizona State University
BS, Computer Information Systems Arizona State University
BS, Management Arizona State University
Steiger, Christina R—Instructor, Human Services
MED, Counseling University of Oregon
BS, Psychology Oregon State University
AAOT Linn-Benton Community College
Stephens, Nancy L—Instructor, Business Technology
MED, Business Education Oregon State University
BS, Business Education Oregon State University
Stevens, Karen F—Counselor, Student Support Services
MSW, Social Work Portland State University
BS, Psychology Western Oregon University
AAOT, Lower Division Transfer Chemeketa Community College
Sullivan, Geraldene A (Gerry)—Instructor, Nursing
MED, Early Childhood Education Linfield College
MSN/ED, Nursing University of Phoenix
AS, Nursing Thornton Community College
BS, Early Childhood Education Linfield College
Sunderland, David H—Instructor, Farm Business Management
MS, Agriculture Economics New Mexico State University
BS, Animal Science Brigham Young University
Tardiff, Bryan C—Instructor, Mathematics
MS, Mathematics Oregon State University
BS, Mathematics Oregon State University
Taylor, R—Dean, Business, Technology, Early Childhood Education & Visual Communications
PHDC, Education Leadership, Curriculum & Instruction Portland State University
MA, Early Childhood Education Concordia College
BS, Psychology-Family Studies Corban College
AAS, Early Childhood Education Chemeketa Community College
Teixeira, Denise—Instructor, Accounting Program
MBA, Business Administration University of Hartford
BS, Business Management University of Maryland
AAS, Accounting Northern Virginia Community College
Terrazas, Jon M—Coordinator, Veteran’s Services
MA, Organizational Management University of Phoenix
BA, Physical Education California State University-Chico
Tobey, Allison S—Instructor, English/Writing
MFA, Creative Writing Antioch University
BA, Psychology Grinnell College
Torresdal, Kathleen D—Instructor, Psychology
MS, Psychology Walden University
Trabue, Jeremy G—Instructor, English
MA, Psychology State University of West Georgia
MA, English State University of West Georgia
BA, Humanities New College of California
Trattner, Tamara L—Instructor, Early Childhood Education
MA, Human Development Pacific Oaks College
BA, Human Development Pacific Oaks College
AA, Early Childhood Education Chemeketa Community College
Tuss, Halston J—Instructor, Engineering
MS, Civil Engineering Oregon State University
BS, Civil Engineering Oregon State University
Tuss, Lana L—Instructor, Accounting
MS, Taxation Golden Gate University
MM, Management Southern Oregon University
BS, Business Administration-Accounting Portland State University
Valdivia, Armandina (Dina)—Instructor, English as a Second Language
MED, Adult Education Oregon State University
BA, Art Oregon State University
Valentine, Friday—Curator, Digital Assets
MLS, Library Science Emporia State University
AS, Theater Arts Rio Hondo College
VanDyke, Melissa L—Instructor, Medical Assisting
BA, Health Care Administration George Fox University
AGS, General Studies Chemeketa Community College
CERT, Medical Administrative Assistant Chemeketa Community College
VanHouten, Debra L—Instructor, Life Science
MS, Physiology University of California-San Francisco
BS, Animal Science California Polytechnic State University
VanSlyke, Timothy J (Tim)—Instructor, Multi-Media Language Center
MSE, Information Technology Western Oregon University
BA, Arts & Letters Portland State University
CERT, Teaching English as a Second Language Portland State University
VanStavern, Jan E—Instructor, Composition/Literature
PHD, English University of California-Davis
MA, English University of California-Davis
BA, Creative Writing Oberlin College
Veldhuisen, Kathleen—Reference Librarian
MLS, Library Science Rutgers-The State University
BA, English Rutgers-The State University
Villegas, Elias P—Dean, Woodburn Center
MFA, Public Administration California State University-Chico
BS, International Business California State University-Chico
BS, Spanish California State University-Chico
AA, Accounting Butte College
Villwock, Cynthia D—Instructor, Physical Science
MS, Chemistry Oregon State University
BS, Engineering: Civil Oregon State University
Wagner, A.T. (Toby)—Instructor, Mathematics
MA, Mathematics California State University-Fullerton
BA, Mathematics Walla Walla College
Watkins, Carmen R—Instructor, Mechanical Design
BS, Mechanical Engineering University of Alaska Fairbanks
Wenzig, Theresa L (Terri)—Instructor, Nursing
MSN, Nursing University of Phoenix
BSN, Nursing Lewis-Clark State College
AS, Nursing North Idaho College
West, Gary E—Instructor, Anesthesia Technician
AS, Medical Assistant City & Guilds of London Institute
CERT, Hospital Operating Department Assistants
NE Thames Regional Health Authority

West, Ryan M—Director, Financial Aid & Veterans’ Services
MED, College Student Services Administration
Oregon State University
BS, Business Western Oregon University

Whitney, John R—Instructor, English as a Second Language
MA, English Northern Arizona University
BS, English Northern Arizona University

Williams, B. Patrick—Instructor, Philosophy/Religion
MAIS, Interdisciplinary Studies Oregon State University
BS, History Oregon State University
BS, Philosophy Oregon State University

Williams, Jack D—Instructor, Nursing
MSN, Nursing University of Phoenix
BS, Nursing National University
AS, Nursing Imperial Valley College

Willis, Monica S—Instructor, Adult Basic Education
MED, Education University of Portland
BA, International Studies Willamette University
BA, Spanish Willamette University

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A. Introduction
Chemeketa Community College provides opportunities for students to explore, learn and succeed through quality educational experiences and workforce training. The Student Rights and Responsibilities explains the rights and expectations for individuals who choose to become part of the Chemeketa community.

B. Student Rights
1. Right to Protection From Improper Academic Evaluation
   i. Students have the right to consistent academic evaluation in relation to other students.
   ii. Students are free to take reasoned exception to the data or views offered in the classroom and to reserve judgment about matters of opinion, but they are responsible for learning the content of the course.
   iii. Students have the right to be informed about classroom requirements and college policies and procedures.

2. Right to Freedom From Harassment and Non-discrimination
   i. Chemeketa is committed to providing everyone with an environment focused on learning and growth, free of harassment or discrimination.

3. Right to Access Student Records and Protection from Improper Disclosure
   i. Chemeketa shall maintain student records procedures consistent with the requirements of applicable state and federal laws and guidelines and use student records to promote the growth and welfare of students within the mission of the college.

ii. Confidentiality of student records. The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their educational records.

4. Rights Concerning Participation in Co-Curricular Activities
   i. Students have the right to form student clubs and organizations, which may use available college facilities according to college policy and procedures.
   ii. Students have the right to freedom of expression, association and assembly, as referenced in the Free Speech Guidelines. This right may be exercised by the use of written or spoken words, by acts such as picketing and mass assemblies and demonstrations, subject to College regulations on time, place and manner of such activity.
   iii. Students may express their views on college policy or matters of general interest, and may support causes by any orderly means that do not disrupt the operation of the college.
   iv. Students have the right to participate in self-governing student bodies which provide channels of communication and means for using democratic processes to solve problems.
   v. Students have the right to participate in the institutional governance and policy formation as defined by the appropriate governing body.

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Salem Campus Building 3/272 • 503.399.5076
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A. Introduction
Admission to and participation at Chemeketa Community College requires students to conduct themselves as responsible citizens and members of the academic community. Students are afforded due process in regards to disciplinary concerns, as well as fair and balanced systems for other complaint resolution. This document is not intended to be exhaustive, and the College reserves the right to impose sanctions on students for personal actions, which may not be expressly identified.

B. Student Responsibilities
It is the responsibility of each student to know and abide by Chemeketa’s Code of Conduct, policies and procedures, and academic department guidelines. Responsibility for good conduct rests with students as individuals.

C. Authority
1. The Student Code of Conduct will apply to conduct that occurs on college premises, at college-sponsored activities, on-line learning environments, and to off-campus conduct that impacts the college community and/or the pursuit of its objectives.

2. The Student Code of Conduct applies for the duration of enrollment, including conduct that occurs before classes begin or after classes end, even if the student withdraws from school after the alleged misconduct has occurred.

3. The Student Code of Conduct will apply to off-campus conduct that threatens Chemeketa, such as threats of violence or physical harm, unlawful harassment or other behavior which may have a negative impact or may place its community (inclusive of students, employees or faculty) at risk. The Executive Dean of Students will determine whether the Student Code of Conduct will be applied to incidents occurring off-campus, on a case-by-case basis.

4. College disciplinary proceedings are separate and independent of any civil or criminal proceedings.

D. Scope
The Student Code of Conduct establishes rules governing academic and social conduct of students, including due process rights.
The term “student” includes all persons taking courses at the college, both full-time and part-time, pursuing credit or non-credit classes or enrolled in any special program approved by the college, within the last year.

E. Community Standards

As members of a community of people seeking to foster growth through education, Chemeketa students are expected to act in a manner that promotes the college’s mission, vision and values. In addition, choosing to join the college community obligates each member to adhere to the College’s Community Standards as defined below:

1. Civility—Students are expected to uphold the dignity of all members of the College Community.
2. Accountability—Students are expected to bear the ultimate responsibility for the effects of their decisions and behavior.
3. Academic Honesty and Personal Integrity—Students are expected to be truthful, ethical and fair in their interactions with members of the college community. They are expected to practice academic honesty by not cheating, plagiarizing, or misrepresenting their coursework in any way.

F. Violations of Local, State, and Federal Law

Students bear the ultimate responsibility for the effects of their decisions and behavior. Students shall abide by all federal, state, and local laws. The Code of Conduct process may be instituted without regard to the status of civil or criminal litigation in court or criminal arrest and prosecution. Sanctions imposed, as a part of this process shall not be subject to change based on the outcome of any civil or criminal process.

The college will cooperate with law enforcement and other agencies in the enforcement of criminal law on campus. Members of the college community, acting in their personal capacities, are free to interact with governmental representatives, as they deem appropriate.

G. Conduct Violations

1. Academic Honesty—Understanding, developing and practicing academic honesty is expected of all students at Chemeketa Community College. Academic dishonesty is any form of cheating and/or plagiarism which results in students giving or receiving unauthorized assistance in an academic exercise or receiving credit for work which is not their own. Acts of academic dishonesty will not be tolerated, and students engaging in such conduct may be subject to classroom and/or institutional disciplinary sanctions. Refer to policy/procedure #5020

2. Assaulting, endangering, unlawfully harassing, or threatening others—

Examples include, but are not limited to:

   i. Any means of assault, abuse, unlawful harassment, intimidation, or threats toward a student, employee, vendor, visitor, or guest of Chemeketa;

   ii. Engaging in other forms of unwanted conduct directed at another person that:

   a. Threatens, endangers or harms a person’s physical or mental health or their property;
   b. Creates a reasonable fear of such a threat or action; or
   c. Interferes with the person’s ability to participate in the educational or operational aspects of Chemeketa.

3. Bullying—Bullying is the systematic intentional behavior that may take many forms. It may be targeted at an individual or group, and it creates an intimidating and/or threatening environment which results in a fear of psychological and/or physical harm.

Examples include, but are not limited to:

   i. Repeated unwanted physical, verbal, or written acts which are hostile or offensive
   ii. Cyber stalking or cyber bullying
   iii. Exclusionary behaviors such as ignoring or dismissing individuals or groups
   iv. Behaviors that express contempt, disgust, and/or incite confrontation toward an individual and/or their property
   v. Behaviors that intimidate, threaten, disrupt, and humiliate individuals or groups
   vi. Making derogatory remarks that mock, ridicule, condescend or insult
   vii. Using obscene, vulgar language including profanity, shouting inappropriately, using obscene gestures or mimicking the actions of an individual in an attempt to mock them.

4. Classroom Misconduct—All students have the right to learn without interference from others. Classroom misconduct is any behavior which disrupts or interferes with the learning experience.

Primary responsibility for managing the classroom environment rests with the faculty. Faculty members are authorized to define, communicate, and enforce appropriate standards of behavior in classrooms, offices, and other instructional areas under their supervision.

Examples include, but are not limited to:

   i. Creating distractions and disturbances by talking in class while the faculty member or other students are speaking, holding side discussions irrelevant to the subject matter, using offensive language, sleeping, reading unrelated materials, and moving about the classroom.
   ii. Creating distractions and disturbances by using cell phones or other electronic devices in a way that disrupts the learning process or teaching environment such as viewing or interacting with unrelated content, sending and receiving communications unrelated to the class activity, or engaging in other off-task behavior.
   iii. Entering the classroom late or leaving the classroom prior to the end of class is considered a disruption to the learning process and should be avoided unless exceptional circumstances arise.
iv. Any conduct construed as disrespectful behavior or actions towards another student or faculty member

5. **Complicity in Violating the Student Code of Conduct**—If a student has knowledge of an individual or group of individuals committing or attempting to commit a violation of this Code, he or she is required to remove him or herself from the situation and report it to the College. This includes attempting, aiding, abetting, conspiring, hiring or being an accessory to any act prohibited by this Code.

6. **Copyright Infringement**—Chemeketa’s Appropriate Use and Software Copyright policies prohibit the use of the Chemeketa network or computer systems for the unauthorized duplication, use, or distribution of copyrighted digital materials, movies, music, and videos, regardless of the method employed (e.g. web pages, peer-to-peer (P2P) file sharing, email, etc.). Refer to policy # 4210.

7. **Discrimination/Harassment**—Discrimination and harassment is misconduct incited by an individual's perceived or real affiliation with a protected class. It can be defined by repeated, malicious mistreatment, verbal abuse, or conduct that is threatening, intimidating, humiliating, or insulting. Discrimination/harassment may also include behaviors that isolate people or undermines their reputation through verbal or non-verbal communications. See also Bullying. Refer to policy #1750

Engaging in discrimination/harassment against any member of the college community based on a protected class is prohibited in all programs, activities, services, employment and advancement including admissions to, access to, treatment in, or compensation in employment as required by state and federal law.

Discrimination or Harassment is prohibited when it is based on any of the following protected classes:
- Race
- Sexual orientation
- Color
- Gender identity
- Ethnic origin
- Family relationships
- National origin
- Marital status
- Religion
- Pregnancy and related conditions
- Age
- Citizenship status
- Disability
- Veterans status
- Sex (see Sexual Harassment Policy #1751)
- Tobacco usage during non-working hours

Individuals from these classes are protected from:

i. The implicit or explicit expectation that they submit to harassing or discriminatory conduct as a condition of employment or as a basis for academic evaluation or participation;

ii. Severe or pervasive conduct that creates an intimidating, hostile or offensive work or academic environment and has the purpose or effect of interfering with any individual's work or academic performance.

8. **Disruptive Behavior**—Disruption may include: disorderly conduct, lewd or indecent behavior, breach of peace, or aiding, abetting or procuring another person to breach the peace on College premises or at functions sponsored by or participated in by the College. This includes the disruption of College activities and College business in classes, programs, meetings, office spaces/departments, and student activities. See also Classroom Misconduct.

Examples include, but are not limited to:

i. Any behavior that is disorderly or disruptive to the educational or administrative processes of Chemeketa as determined by a Chemeketa official.

ii. Conduct that interferes with Chemeketa's educational responsibility of ensuring the opportunity for all members of Chemeketa community to attain their educational objectives.

9. **Ethical and Acceptable Use of Technology**—The use of Chemeketa Network, Technology and Communications resources is subject to all federal, state and local laws, and to the College’s applicable policies and guidelines, as outlined in the Chemeketa Use of College Network, Technology, Communications Resources policy # 1760.

10. **Forgery, furnishing false information, identity theft, or dishonest conduct**

Examples include, but are not limited to:

i. Attempts to Defraud

ii. Misrepresentation: Any activity intended to misrepresent any official document or identification used by or issued by the College. Includes representing or acting on behalf of the College or another individual when not authorized to do so.

11. **Gangs**—A gang is defined as a group of individuals with identifiable leadership that conspires and acts in concert, mainly for criminal purposes. Involvement in gang-related activities includes, but is not limited to, the display of gang symbols, gang paraphernalia, colors, signs, or graffiti. Behavior on or about College premises or at College-sponsored events that creates conflict or an atmosphere of intimidation, or creates a clear and present danger to life or property, or disrupts orderly operation is prohibited.

12. **Hazing**—Hazing means any act committed on Chemeketa property or in connection with any Chemeketa related group or activity that endangers the mental or physical health or safety of an individual including, without limitation, an act intended to cause degradation, cruelty, or humiliation, or that destroys or removes public or private property, for the purpose of initiation in, admission to, affiliation with, or as a condition for continued membership in a group or organization.
In response to allegations of hazing under this regulation, it is not a defense that:

i. The victim gave consent to the conduct;
ii. The conduct was not part of an official organizational event or sanctioned or approved by the organization;
iii. The conduct was not required as a condition of membership in the organization

13. **Illegal or Unauthorized Possession/Use of Alcohol and Drugs**—Chemeketa Community College is committed to providing an environment which fosters excellence in learning for its students and community, and in work performance for all of its employees. The misuse and/or illegal use of alcohol and drugs is contrary to this effort. In keeping with federal and state statutes, the illegal use, possession, distribution, manufacture, or sale of alcohol and/or drugs is not permitted on college-owned or college-controlled property. Being under the influence of alcohol and/or drugs is not permitted on college-owned or college controlled property or while representing the college on business or in college-sponsored activities. Refer to Policy #2250.

14. **Illegal or Unauthorized Possession/Use of Weapons**—The possession of any illegal weapon, firearm, or knife with a blade exceeding four (4) inches, is prohibited on college property, or college controlled property, in accordance with both State and Federal Law (ORS 166.360-166.380). Law enforcement officers are exempt from this policy. The college president/chief executive officer, or designee, may grant other exemptions for training or safety purposes.

15. **Indecent or Obscene Behavior**—

Examples include, but are not limited to:

i. Indecent exposure
ii. Urinating or defecating in public
iii. Public indecency
iv. Lewd conduct
v. Obscene Displays
vi. Voyeurism

16. **Misuse or Unauthorized Possession or Use of Public or Private Property**—

Examples include, but are not limited to:

i. Theft or the taking or unauthorized use or possession of public or private property or unauthorized use or acquisition of services
ii. Conduct that defaces, destroys, damages, or litters any property of the College or any property of an individual or group whether on Campus or at a College function.

17. **Obstruction/Abuse of Student Conduct Process**—

Examples include, but are not limited to:

i. Failure to comply with a request to participate in the student conduct process
ii. Falsification, distortion, or misrepresentation of information
iii. Disruption or interference with the orderly process of a conduct investigation
iv. Attempting to discourage an individual’s proper participation in or use of the student conduct process
v. Attempting to influence the impartiality of a conduct officer prior to and/or after the student conduct process
vi. Verbal or physical harassment and/or intimidation of a conduct officer
vii. Failure to comply with decisions, recommendations or sanctions imposed
viii. Influencing or attempting to influence another person to commit an abuse of the conduct process.

18. **Refusal to Identify and/or Comply**—

Examples include, but are not limited to:

i. Disobedience or insubordination toward College officials or designees acting in the performance of their duties
ii. Refusal to produce proper identification for a College official when asked.

19. **Safety Violations**—

Examples include, but are not limited to:

i. Conduct that endangers the health or safety of others
ii. Intentionally or recklessly starting a fire or causing an explosion
iii. Misusing fire safety equipment, fire escapes or elevators
iv. Intentionally or recklessly endangering the welfare of any individual
v. Intentionally or recklessly obstructing fire, police, or emergency services
vi. Using, possessing, or storing dangerous chemical, fireworks, or explosives
vii. Using, possessing, or storing any object classified as a weapon by the State of Oregon on college property
viii. Utilizing any instrument in a manner that endangers or tends to endanger any person
ix. Obstructing the free flow of pedestrian or vehicular traffic
x. Falsely alerting others about an emergency
xi. Blocking or preventing the use of or access to exit doors, fire exits, and building hallways

20. **Stalking**—Stalking is defined as a course of conduct directed at a specific person that would cause a reasonable person to fear for his, her or other’s safety, or to suffer substantial emotional distress.

21. **Theft or damage to property**—

Examples include, but are not limited to:

i. Theft or the taking or unauthorized use or possession of public or private property or unauthorized use or acquisition of services
ii. Conduct that defaces, destroys, damages, or litters any property of the College or any property of an individual or group whether on Campus or at a College function.
22. Threatening Behavior—A student can be found responsible of threatening behavior even if the person who is the object of the threat does not observe or receive it, so long as a reasonable person would interpret the maker’s statement, communication, conduct or gesture as a serious expression of intent to harm.

Examples include, but are not limited to:
  i. Any written or oral communication, conduct or gesture, that is directed toward any member of the Chemeketa community including any conduct that threatens or causes physical injury or endangers another person’s or one’s own health or safety including, but not limited to, physical violence, assault, or the threat to use physical violence
  ii. Interference by force, threat, harassment or duress with personal safety, academic efforts, employment, and/or participation in College-sponsored activities

23. Unauthorized access and use of facilities and services—

Chemeketa Community College facilities, equipment and related property shall only be used for college-related activities.

Examples include, but are not limited to:
  i. Unauthorized access or entry to College buildings, structures or facilities, information systems, or obtaining or providing to another person the means of such unauthorized access
  ii. Unauthorized possession, duplication or use of keys or access cards for any College property
  iii. Continued occupation of any College facility after being requested to leave by a College employee, official or designee acting in the performance of their duties

24. Violations of College policies, procedures, and guidelines—

Students are responsible for making themselves aware of and complying with College policies, procedures and guidelines

Examples include, but are not limited to:
  i. Academic Honesty Policy and Procedure
  ii. Smoke-Free Policy
  iii. Use of College Network, Technology, Communications Resources Policy
  iv. Use of Copyright Materials Policy
  v. Harassment/Discrimination Policy
  vi. Sexual Harassment, Discrimination, and Misconduct Policy
  vii. Service Animals Policy and Procedure
  viii. Affirmative Action/Non-harassment/Hate Crimes/Bias Incident

H. Removal of Student from a Classroom/Office/Campus/Center

A student who is disruptive to the learning environment may be removed from a classroom, office, campus or center, using the one or more of the following measures:

1. Temporary Exclusion is the removal of a student from a class or service area, not to exceed one class session, one day, or removal from a college-sponsored function for the duration of the function. If an employee deems that the language, manner, or physical behavior of a student violates an atmosphere conducive to learning, safety, the orderly administration of the college, the employee may request the student to leave. Reinstatement may be sought in accordance with the Student Rights and Responsibilities procedures. A written report of the circumstances requiring this action shall be submitted to the appropriate Dean/Director and Executive Dean following the incident with specific directions, expectations and consequences for non-compliance.

2. Disciplinary Probation is a written warning to a student, which may include interim exclusion. Interim exclusion may not exceed five days. The appropriate Dean/Director may impose disciplinary probation.

3. Suspension is the exclusion of a student from classes in a program or service area, and college-sponsored functions for a specified period of time as set forth in the notice of suspension. The Executive Dean of Students may impose suspension from classes in a program, from a service area, or from college-sponsored functions in consultation with the appropriate Dean/Director. Suspension may not exceed one term.

4. Expulsion is the permanent separation of a student from a program or service area or conditional separation from the college. The Executive Dean of Students may impose expulsion. Conditions of readmission, if any, shall be stated in the order of expulsion.

I. Charges of Student Misconduct

The Student Code of Conduct procedures are designed to afford complainants and respondents a fair and accessible process that educates students about their rights and responsibilities, holds students accountable for their actions, and provides due process.

Chemeketa Community College emphasizes the importance of direct, courteous, and respectful communication to informally resolve concerns and complaints whenever possible. In most cases, issues involving student misconduct are able to be resolved using an informal process. This may include a meeting with the Executive Dean of Students and/or referral to Counseling or other college services. This meeting is typically considered a learning opportunity for the respondent to make behavioral changes and no further action is necessary. However, when the misconduct rises to a level that informal resolution cannot be reached, the formal disciplinary process, as outlined below, may be initiated.

Process

1. Any member of the college community may submit a complaint against a student for violation of the code of student conduct. Any formal complaint must be submitted in writing to the Executive Dean of Student’s office ten (10) business days from the date the person became aware, or reasonably can be expected to have become aware, of the alleged violation.
2. The Executive Dean of Students or designee will schedule an initial meeting with the respondent to discuss the complaint.

3. During the initial meeting, the Executive Dean of Students or designee will explain the process, the respondent’s rights and responsibilities, and review the complaint and alleged violation(s) of the code of student conduct. The Executive Dean of Students or designee will seek information from the respondent regarding the allegations and gather additional information from other involved parties or observers as part of the investigatory process.

4. If there is more than one respondent involved in the complaint, the Executive Dean of Students or designee has sole discretion to permit the conferences concerning each respondent to be conducted either separately or jointly.

5. The Executive Dean of Students or designee will investigate to determine if there is a preponderance of evidence (i.e., more likely than not) that the complaint has merit and will take one of the following actions:
   i. If determined that the case has no merit, the case will be dismissed;
   ii. If determined that the case has merit, the Executive Dean of Students or designee will attempt to resolve the complaint informally through a meeting with the goal of creating a learning opportunity, and encourage behavior modification;
   iii. If determined the case has merit and behavior(s) are deemed egregious, a formal process of disciplinary steps and sanctions will be enforced to bring resolution to the complaint.

6. If the respondent and the Executive Dean of Students or designee mutually agree to the resolution of the complaint, which may or may not include sanctions, the resolution will be put in writing and there will be no subsequent proceedings;

7. If the respondent disagrees with the Executive Dean of Students or designee decision and resolution of the complaint, the respondent may appeal the decision to the Vice President of Instruction and Student Services within ten (10) business days, see Appeal Process section.

8. At any time during this process, failure to respond to the Executive Dean of Students, or designee may subject the respondent to an academic hold and the outcome of the complaint will be reviewed in the respondent’s absence.

J. Sanctions

Any student found to have violated the Code of Conduct will be subject to one or more of the following consequences:

1. **Warning:** Written notice to a student that the student has been in violation of college policy or has otherwise failed to meet the college’s standards of conduct. Such warnings will include the statement that continuation or repetition of the specific conduct involved or other misconduct may result in one of the more serious consequences.

2. **Reprimand:** Written action censuring a student for violation of college policy or otherwise failing to meet the college’s standards of conduct. The written reprimand will be filed in the office of the Executive Dean of Students for the duration of the student’s attendance at the college. A reprimand will include the statement that continuation or repetition of the specific conduct involved or other misconduct may result in one of the more serious consequences.

3. **Probation:** Conditions placed upon the student’s continued attendance for violation of this chapter. Notice will be made in writing and specify the period of probation and the conditions to be met by the student. Disciplinary probation may be for a specific term or for an indefinite period, which may extend to graduation. Violation of the terms of the probation or violation of any college policy during the probation period may be grounds for additional consequences.

4. **Loss of privileges:** Denial of specified privileges for a designated period of time.

5. **Restitution:** Compensation for loss, damage, or injury. This may take the form of appropriate service and/or monetary or material replacement.

6. **Withholding admission or degree:** Admission to or a degree awarded from the college may be withheld for a specified amount of time.

7. **Revocation of admission or degree:** Admission to or a degree awarded from the college is revoked and noted on the transcript. In general this action is reserved for conduct that includes, but is not limited to, acts of dishonesty.

8. **Other possible consequences:** Work assignments, essays, service to the college, or other related discretionary assignments.

9. **No contact:** The student may have no contact with other stated members of the college community.

10. **Suspension:** Temporary dismissal from the college and termination of the person’s student status. Readmission after Disciplinary Suspension requires a meeting with the Executive Dean of Students.

11. **Expulsion:** Permanent dismissal from the college and termination of the person’s student status.

12. **Emergency suspension:** In certain circumstances, the Executive Dean of Students, may impose an emergency suspension. Emergency suspension may be imposed:
   i. To ensure the student’s own physical or emotional safety and well-being; or
   ii. To ensure the safety and well-being of members of the college community or preservation of college property; or
   iii. If the student poses an ongoing threat of disruption or interference with the normal operations of the college.
   iv. During the emergency suspension, a student will be denied access to the campus (including classes) and/or all other college activities or privileges for which the student might otherwise be eligible, as the Executive Dean of Students determines to be appropriate.
K. Appeal Procedures for Conduct Sanctions

1. Grounds for appeal:
   i. College policies and procedures were not followed
   ii. New evidence previously unavailable may be presented

2. All appeals must be submitted in writing to the Vice President of Instruction and Student Services within ten (10) business days of the Executive Dean of Student's final determination.

3. This final level of appeal is a review of written documentation only. If it is not filed within this timeframe, the student will forfeit his or her final appeal opportunity.

4. If the student fails to follow through with the above outlined process or does not meet grounds for appeal, the appeal opportunity will be forfeited

5. After reviewing the Executive Dean of Student's written decision, along with the written appeal from the student, the Vice President shall have ten (10) business days to render a written decision to the student. The Vice President's decision shall be final, binding and mailed to the student by first-class mail and via email to the student's MyChemeketa account.

6. The Vice President of Instruction and Student Services has the authority to:
   i. Alter, amend and/or overturn disciplinary action if information on appeal merits such action
   ii. Schedule a rehearing if specified procedural errors or errors in interpretation of College regulations were so substantial as to deny the student a fair hearing, or if new and significant evidence becomes available
   iii. Dismiss the case if the finding is held to be unsupported by the evidence

7. Disciplinary action for suspension or dismissal may be deferred while an appeal is pending, unless, in the discretion of the Vice President of Instruction and Student Services, the continued presence of the student on the campus poses a substantial threat to him or herself, to others, or to the stability and continuance of normal College functions.

L. Non-conduct Related Conflict Resolution Process

1. Charges of Staff Misconduct—Complaints in this dispute type refer to perceived violation of law or college policy or section 3.0, Student Rights, of this document. These complaints, made by a student do not include grade issues. Except for sexual harassment and discrimination complaints, the faculty and staff members of the College are subject to collective bargaining agreements and formal disciplinary rules which are beyond the scope of this document. For this reason, complaints concerning the conduct of a faculty or staff member shall be made to the faculty and/or staff member's supervisor (i.e. Director or Dean) and shall be subject to dispute resolution procedures as the supervisor determines appropriate. If the student believes that the supervisor has not resolved the issue, the student may contact the next person in the chain of authority (i.e. Dean or Executive Dean).

2. Charges of Harassment—Chemeketa is committed to providing everyone with an environment focused on learning and growth, free of discrimination or harassment. Such behaviors will not be tolerated and are against college policies. For complaints/reports of sexual harassment, discrimination, and misconduct, refer to policy # 1750 or http://go.chemeketa.edu/titleix. The College has also established a Harassment Network of staff who can assist student with these issues. For more information, visit http://go.chemeketa.edu/harassment.

3. Instructional Concerns and Complaints—If students have instructional concerns or questions, they are encouraged to contact their instructor first to allow them the chance to address the student's concerns. If this has already been done without satisfaction, the student may contact the appropriate Academic Dean or Director for assistance.

4. Grade Appeals—Students are encouraged to maintain frank and open communication with their instructor concerning their progress and performance throughout the duration of the course. For more information, refer to the college Guideline for Grade Appeals.

13. Emergency suspension procedures: The student will be notified in writing of this action and the reasons for the emergency suspension. The student will also be informed in writing of the time, date and place of an initial meeting.
   i. An initial meeting will take place within five (5) business days of the emergency suspension. At the initial meeting the student may show cause why his or her continued presence on the campus does not constitute a threat.
   ii. At the initial meeting, the Executive Dean of Students or designee will decide to uphold the emergency suspension, dismiss it, or impose other consequences. The student will be informed in writing of this decision within ten (10) business days of the meeting date.
   iii. The emergency suspension does not replace the code of student conduct procedures, which will proceed on the normal schedule, up to and through the student conduct appeal process, if required.

14. Sanctions of suspension, expulsion or revocation or withholding of a degree will become a permanent part of a student's record in the Office of the Executive Dean of Students.

15. The following sanctions may be imposed upon groups or organizations:
   i. Those listed above in Sanctions (a-i);
   ii. Loss of selected rights and privileges for a specified period of time or indefinitely;
   iii. Loss of Recognition – Chemeketa student organizations may lose recognition and will be deprived of the use of College resources, the use of the College's name and the right to participate in College or campus-sponsored activities. This loss of recognition may be for a specific period of time or for an indefinite period of time until all stated conditions are met.
i. When a student believes that he or she has been given an inappropriate grade, the student will speak directly with the instructor in attempt to resolve the issue.

ii. If a student receives an unsatisfactory or no response from the instructor, the student may appeal the grade by completing the online grade appeal form and attaching supporting documentation of the facts cited in the appeal.

iii. The appeal must be submitted no later than 30 calendar days after the grade is posted for the academic term of the dispute. No exceptions will be made to this deadline. Please note, professional-technical program specific deadlines for Grade Appeals supersede this college-wide deadline for appeal.

iv. Upon submission, the appeal and supporting documentation is routed to the appropriate Academic Dean or Director.

v. The Academic Dean or Director has 30 calendar days from the date of receipt to respond to the student via email.

vi. The decision of the Academic Dean or Director is final, and there is no further appeal beyond this point.

vii. The Academic Dean or Director will keep a copy of the appeal for one year.

5. Student Complaints Alleging Violation of a College Rule, Policy or Procedure—This type of complaint is used when a student believes that the college, as a matter of practice, is violating its own rules, policies or procedures.

i. The student will submit a complaint in writing to the Executive Dean of Students that include the student's name and nature of the complaint, and any necessary related supporting documentation.

ii. Upon receipt of the complaint, the Executive Dean of Students will schedule a meeting with the student filing the complaint. At that meeting, the Executive Dean of Students shall attempt a resolution of the complaint.

iii. In the event that the resolution proposed by the Executive Dean of Students is not acceptable to the student, the student may make a secondary appeal to one of the following administrators, depending on the nature of the complaint:

The student will submit a complaint in writing to the Executive Dean of Students that include the student’s name and nature of the complaint, and any necessary related supporting documentation.

iv. Upon receipt of the student’s appeal, the Vice President/Associate Vice President shall schedule a meeting with the student to discuss the complaint.

v. The Vice President/Associate Vice President will issue a written decision to the student within thirty (30) calendar days of this meeting. A copy of the decision will be given to the Executive Dean of Students.

vi. The decision of the Vice President/Associate Vice President will be final and not subject to further appeal.

M. Retaliation

The College seeks to foster an environment in which all employees and students feel free to report incidents of misconduct without fear of retaliation or reprisal. Therefore, the College strictly prohibits retaliation against any individual for filing a complaint or for participating in an investigation. Retaliatory conduct is considered a violation of this code.

All allegations of retaliation will be swiftly and thoroughly investigated. If it is determined that retaliation has occurred, the College will take all reasonable steps within its power to stop such conduct. Individuals who engage in retaliatory conduct are subject to disciplinary action, up to and including expulsion and/or termination.

Any student or employee who believes that he or she has been harassed or retaliated against in violation of this policy should immediately report such incidents to the Executive Dean of Students or the Director of Human Resources.

N. Interpretation and Revision

1. Any question of interpretation or application of the code of student conduct will be referred to the Executive Dean of Students or his or her designee for final determination.

2. The code of student conduct will be reviewed every three years under the direction of the Executive Dean of Students.

O. Student Records

1. Disciplinary sanctions will be made part of both the complainant's and the respondent's education record. The records may be expunged of disciplinary consequences, other than expulsion, seven years after the college term in which the incident occurred. The exceptions are Academic Honesty infractions, which may be expunged after 2 years of the incident.

2. Records of the process and of the sanctions imposed, if any, shall be considered to be the education records of both the respondent(s) and the student(s) claiming to be the victim.
College Contact Information
Office of the Executive Dean
Student Development and Learning Resources
Salem Campus Building 3/272 • 503.399.5076
studentconcerns@chemeketa.edu

College Policy and Procedures
Web Resources
Academic Honesty
   go.chemeketa.edu/studentrights
Affirmative Action
   go.chemeketa.edu/policies
Chemeketa Policies
   go.chemeketa.edu/policies
Complaints and Concerns
   http://www.chemeketa.edu/complaints-and-concerns
Family Educational Rights and Privacy Act (FERPA) and Student Records
   go.chemeketa.edu/studentrights
Free Speech Guidelines
   go.chemeketa.edu/studentrights
Harassment/Discrimination
   http://www.chemeketa.edu/complaints-and-concerns
Public Safety
   go.chemeketa.edu/publicsafety
Service Animals
   go.chemeketa.edu/disabilityservices
Sexual Harassment, Discrimination and Misconduct Policy and Procedure
   go.chemeketa.edu/titleix
Smoke-Free Policy
   go.chemeketa.edu/policies
Unlawful use or possession of firearms or illegal weapons
   go.chemeketa.edu/policies
Unlawful use or possession of drugs or narcotics
   http://go.chemeketa.edu/alcoholdrugfree
Use of College Network, Technology, Communications Resources Policy
   go.chemeketa.edu/policies
Use of Copyright Materials Policy
   go.chemeketa.edu/studentrights
Campus Map Legend

001 1st Floor: Bookstore
001 2nd Floor: Faculty Offices
002 1st Floor: Advising & Counseling; Career Center; Convenience Store; Student Accessibility Services; Food Court; Information Center; Multicultural Center; Planetarium; Public Safety; Student Recruitment; Student Retention & College Life; Student Support Services; Testing Services
002 2nd Floor: Business Services; CAMP; Chemeketa Completion Program; Enrollment Center; Foundation; Graduation Services; Financial Aid; TRIO; Talent Search; Upward Bound; Tutoring Services; Veteran’s Services; College Support Service’s; Human Resources; Presidents Office; Public Information, Marketing; STEPS.
003 1st Floor: Gretchen Schuette Art Gallery; Classrooms;
003 2nd Floor: Classrooms; Math Learning Center; Instruction and Student Services, Placement Testing
004 1st Floor: Automotive Program; Electronics Program
004 2nd Floor: Visual Communications; Robotics; Electronics & Networking

Programs

005 1st Floor: Art Classrooms;
005 2nd Floor: Classrooms
006 1st Floor: Auditorium; Classrooms
006 2nd Floor: Classrooms; Employee Development
007 Gymnasium; Physical Education Classrooms
008 1st Floor: Dental Clinic; Health & Science Classrooms;
008 2nd Floor: Health & Science Classrooms
009 1st Floor: Classrooms; eLearning & Academic Technology; Curriculum; Instruction; Accreditation; Television Studio; Online Programs
009 2nd Floor: Library; Writing Center; Computer Lab; Study Rooms
014 Public Safety
015 Burn Tower
020 Drafting; Engineering; Machining Program
021 Welding Program
022 Academic Development; HEP; Information Technology
033 Apprenticeship Program
034 Conference Rooms; SOAR
037 Faculty Offices
038 Faculty Offices; Occupational Skills Training, Cooperative Work Experience
039 Child Development Center
040 Facilities & Operations
041 Facilities & Operations
042 Catering Kitchen; Northwest Innovations
043 Copy Center; Mail Room; Recycling
044 Horticulture Potting Shed
045 Activity Field
046 Greenhouse
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