It is the policy of Chemeketa Community College and its Board that there will be no discrimination or harassment on the basis of race, religion, color, sex, age, national origin, ethnic origin, sexual orientation, gender identity, marital status, citizenship status, pregnancy and related conditions, family relationship, veteran's status, disabilities and tobacco usage in any educational programs, activities or employment. Persons having questions about equal opportunity/affirmative action should contact the Affirmative Action Officer at 4000 Lancaster Dr. NE, Salem, Oregon 97309-7070, or call 503.399.4784. To request this publication in an alternative format, please call 503.399.5192.
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Chemeketa Community College District

LEGEND
■ Communities with Chemeketa locations

Chemeketa Locations

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

Dallas Center
1340 SE Holman Ave.
Dallas, OR 97338

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

Woodburn Center
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
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.

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

You can fit as much of this as you want into your life. You can go to school full-time to finish a one- or two-year program. You can go part-time to take a class or a workshop. You can attend classes and special events on the Salem or Yamhill campuses or at the college’s 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 via television or 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 four areas of study:

Career and technical education Prepares you to qualify for work in specific fields. You can enroll in more than 40 career and technical training programs. In some of these, you may earn a Certificate of Completion in one year or less. Many programs have

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.
other certificates that credential you to work in jobs in your field while attending college. In most programs, you may 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 55 for general education information.

**College transfer courses** If you wish to continue your education at a four-year college or university, you may complete the one-year Oregon Transfer Module (see page 50), or if you successfully complete Chemeketa’s two-year college transfer program, you may also earn an Associate of Arts Oregon Transfer degree. See page 51 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.

**Lifelong learning** Helps you continue to learn throughout your life. Chemeketa offers many credit and non-credit classes, workshops, and short courses to assist you. These classes can help you improve your technical, vocational, and academic knowledge and skills; retrain you for new positions; and continue your personal development.

**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 has 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 part-time faculty teach day and evening 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.

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**Chemeketa Community College Guiding Principles**

**Vision** We are committed to transforming lives and communities through exceptional learning experiences.

**Mission** Chemeketa Community College values access and diversity which is affirmed by how we care, collaborate, and innovate with each other and the community. We promise to actively support student learning from precollege to transfer or to the workplace and lifelong learning by focusing on student success, quality, and sustainability in all of our practices and by being responsible stewards of our resources.

**Values** Our actions affirm our values, the character of the college, and how we do our work–

**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.

**Care** We care for, trust, and respect each other and the world around us through our words and our actions.

**Innovate** We innovate through reflection, analysis, creativity, and bold ideas. We design quality instruction, programs, and services to prepare students to meet the changing needs of our communities in a global society.

**Collaborate** We collaborate with others to ensure purposeful and effective programs and services that support all students’ access to opportunities for educational achievement. We welcome diverse perspectives and encourage the free exchange of ideas.

Approved by the Board of Education December 16, 2009
## Academic Calendar

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<th>Fall 2013</th>
<th>Winter 2014</th>
<th>Spring 2014</th>
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<tr>
<td></td>
<td>5 weeks</td>
<td>8 weeks</td>
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<td>5 weeks</td>
<td>8 weeks</td>
<td>10 weeks</td>
<td>5 weeks</td>
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<tr>
<td><strong>College-wide Inservice</strong>&lt;br&gt;(College closed to public)</td>
<td></td>
<td></td>
<td>Sep 16</td>
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<td><strong>Employee Inservice</strong></td>
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<td>Sep 17–20</td>
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<td><strong>Student registration: Check registration status on My Chemeketa</strong></td>
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<td><strong>Beginning of Term</strong></td>
<td>Jun 24</td>
<td>Jul 30</td>
<td>Jun 25</td>
<td>Sep 30</td>
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<td><strong>Academic Year and other Holidays</strong></td>
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<td>Sep 2</td>
<td>Nov 11</td>
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<td>Nov 28–29</td>
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<td>Dec 24, 25, 31</td>
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<td></td>
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<td></td>
<td>Jan 1</td>
<td></td>
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<tr>
<td><strong>College Closure</strong></td>
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<td>Dec 21, 26</td>
<td>Feb 18</td>
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<tr>
<td><strong>Summer Friday Closure</strong></td>
<td>Closed Fridays, Jul 5–Aug 31</td>
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<td><strong>Winter Break/Spring Break</strong></td>
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<td>Dec 16–Jan 3</td>
<td>Mar 24–29</td>
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<td><strong>Review &amp; Final Exams</strong></td>
<td>Final exams given during last class period</td>
<td>Dec 9–13</td>
<td>Mar 17–21</td>
<td>Jun 9–13</td>
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<tr>
<td><strong>End of Term</strong></td>
<td>Jul 28</td>
<td>Sep 1</td>
<td>Aug 18</td>
<td>Sep 1</td>
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<td><strong>Graduation</strong></td>
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**Note:** Please check the term’s *Schedule of Classes* for registration information. Schedules are available in Advising and Counseling Services in Bldg. 2.
As a public institution, most of the college’s financial support comes from local property taxes, state school support funds, tuition, and fees.

**Accreditation**

The Northwest Commission on Colleges and Universities granted accreditation to Chemeketa in December 1972. In addition, the Oregon State Board of Education approves all career and technical programs and college transfer courses. Professional associations have also accredited those career and technical education programs that require such approval.

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 N.E., Salem and the newest campus, the Yamhill Valley campus is located in McMinnville. College centers are sited in Dallas and Woodburn.

The Chemeketa district also includes three centers that provide more specialized services to employers and the community. Chemeketa’s Center for Business and Industry in downtown Salem. The Brooks Regional Training Center in Brooks provides training for fire districts and law enforcement throughout the region and houses the Criminal Justice, Law Enforcement, Fire Science and EMT/Paramedic programs. The Northwest Wine Studies Center at Eola includes instruction and hands-on training in the basic knowledge and technical skills required for successful employment in the wine industry.

Credit and non-credit classes, workshops, seminars, and special programs are scheduled in more than 25 locations throughout the college district. These classes meet during the day, evening, and on weekends in schools, businesses, churches, and homes.

**Facilities**

Chemeketa’s Salem campus has 10 major buildings and a number of smaller buildings. Building 2 houses Advising and Counseling Services, Enrollment Services, Financial Aid, the Cashier’s Office, Tutoring Services Center, Student Center, Public Safety, Food Service, and the Planetarium.

The Learning Resource Center is located in Building 9. It includes the library, which is equipped with computers for research, a television studio, teleconferencing rooms, and facilities for audio, graphics, and multimedia production.

Building 6 has up-to-date computer labs, classrooms, and an auditorium, where lectures and performances are scheduled throughout the year.

Building 8, has been re-modelled and expanded with a 60,000 square-foot addition to include modern, well-equipped laboratories for science and health-related programs. The building features dental hygiene and massage therapy clinics for community use.

Workout and weight rooms, racquetball courts, and a gymnasium are located in the physical education facility, Building 7.

The Brooks Regional Training Center and the station facilities on the Salem campus also serve as working fire stations. Brooks is also home to our new classroom building housing our fire fighting, emergency response medicine, law enforcement and criminal justice programs.

Our new Yamhill Valley campus in Yamhill Valley offers comprehensive college services including transfer courses and programs in health, technical and hospitality careers.

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

Chemeketa’s campuses and centers all include classrooms, meeting spaces, student resources and adminis-

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**Teaching and Learning Values**

We are a college that…

- Creates a learning climate of mutual respect and fairness
- Encourages creative and critical thinking
- Actively engages individuals in the learning process
- Facilitates learning that applies to and enriches lives
- Clarifies expectations and 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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<th>2. Placement testing</th>
<th>3. Orientation &amp; Academic Advising</th>
<th>4. Register for classes</th>
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| Enrolling for most Salem campus credit classes | Submit a free online Admission Application at go.chemeketa.edu/apply | Take a Placement Test. | View New Student Orientation in My Chemeketa. Attend an Advising Session. | Log in to My Chemeketa, http://my.chemeketa.edu:  
- Set up your Chemeketa e-mail account.  
- Check your registration status.  
- Register for classes. |
| Enrolling for non-credit/Community Education classes | Submit a free online Admission Application at go.chemeketa.edu/apply. Select “take non-credit classes only” for your “Primary Reason for Attendance”. | None required. | None required. | Log in to My Chemeketa, http://my.chemeketa.edu:  
- Set up your Chemeketa e-mail account.  
- Check your registration status.  
- Register for classes.  
- For assistance with registration for Community Education classes please call 503.365.4773. |
| Earning a GED (Options) If you are age 16-21 | Complete enrollment applications available in Salem campus building 50/102 or Woodburn HSP office, attend an orientation and pretest. Students under the age of 18 must submit an Underage Approval Form. | Contact HSP Office Building 50/102 or Woodburn HSP Office for assistance | Contact High School programs office 50/102 | Orientations, pretesting and enrollment occur every three weeks. Call 503.399.5293 for information and schedules. |
| Earning a GED Taking English for Speakers of other Languages | Contact the Developmental Education Office, Building 22, Rm. 100, Salem campus; or the college’s Dallas, Yamhill Valley or Woodburn locations. | Contact the Developmental Education Office, Building 22, Rm. 100, Salem campus; or the college’s Dallas, Yamhill Valley or Woodburn locations. | Contact the Developmental Education Office, Building 22, Rm. 100, Salem campus; or the college’s Dallas, Yamhill Valley or Woodburn locations. | Consult quarterly Schedule of Classes. Students must attend a program orientation before registering for classes. |
| Earning a high school diploma | Submit high school transcript to Building 50, Room102, Salem campus. Students under the age of 18 must submit an Underage Approval Form. Dual enrollment programs are available as well as a charter school sponsorship option. | Contact High School Programs Office Building 50/102 | College placement testing available at any Chemeketa location. | Students 16-21 should work with the Salem, Woodburn or Sheridan High School Program offices. Adult Diploma candidates call the AHSD advisor at 503.399.5115 |
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 8.

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 outreach location. 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 are younger than 18 and do not have a high school diploma or GED certificate, you should contact the Admissions Office in Building 2 on the Salem campus for information about underage admission.

Placement tests
503.399.6556
testing@chemeketa.edu

If you are a new student pursuing a degree or certificate, you will be required to take a free placement test. The purpose of the test is to determine your skill levels in reading, writing, and mathematics so you can select the entry-level classes that are right for you. Test results more than five years old are not valid.

Information about tests may be obtained from Testing Services in Building 2 on the Salem campus or from Chemeketa’s Dallas, Yamhill Valley and Woodburn locations. To request disability-related accommodations, please call 503.399.5192.

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 on the student tab.

Academic advising for new students
503.399.5120
advising@chemeketa.edu

New students need to attend an academic advising session that is followed by one-on-one advising. Please refer to “Students New to Chemeketa” in the Schedule of Classes for specific dates or call 503.399.5120.

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. For your specific beginning registration day and time see My Chemeketa, “check your registration status.”

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.

Affirmative action/equal opportunity and non-harassment policies

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, veterans status, tobacco usage, 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.

College policy also prohibits harassment on the basis of any of the factors listed above. Harassment is any unwelcome behavior or display, either verbal, physical, or visual in nature, which meets any of these criteria:

- is reasonably perceived by the receiver as unwelcome or offensive.
- refers in a demeaning way to a person’s race, religion, color, sex, marital status, national origin, ethnic origin, citizenship status, age, sexual orientation, gender identity, disability, pregnancy and related conditions, family relationship, veterans status, or tobacco usage; creates a hostile or adverse work or educational environment; and/or subjects employees or students to different terms or conditions based on the characteristics listed above.

Questions or complaints may be directed to the Affirmative Action Officer, P.O. Box 14007, Salem, Oregon 97309, 503.399.4784.

2013–2014 Chemeketa Community College Catalog
Class changes
503.399.5001
registrar@chemeketa.edu
You may make changes in your class schedule before the deadline listed in the Academic Calendar on page 3. Registration and drop dates will vary for classes shorter than full-term. See My Chemeketa for specific dates. To make schedule changes, use My Chemeketa or complete an Add/Drop Form. Forms are available in the Enrollment Center, staff offices, and Advising and Counseling Services on the Salem campus, or from the office or counseling staff at any of the other college locations. It is recommended that the changes be approved by an academic advisor or counselor. You can turn in the form at the Enrollment Center in Salem Building 2 or any Chemeketa campus or center. A fee may be charged for adding or dropping classes.

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 limited staff, space, or equipment. Enrollment is also limited for some programs because of special admission requirements.

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 65–144).

You may still be admitted to the college even though you are not accepted in one of these programs. You may apply to enroll in a related pre-program in order to complete required program prerequisites.

Many of Chemeketa’s career and technical education programs have established entry requirements. If you wish to take six or more credit hours in these programs, you will need to be assessed and may need to take preparatory courses before being admitted. For details about these requirements, check with Advising and Counseling Services at any Chemeketa location.

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.

Withdrawal from college
503.399.5001
registrar@chemeketa.edu
If you decide to withdraw from Chemeketa, you may do so using the Web registration system, My Chemeketa, or you may obtain an Add/Drop Form from the Enrollment Center, Advising and Counseling Services, or Chemeketa’s Dallas, Yamhill Valley or Woodburn locations. Submit the completed form to the Enrollment Center or one of our community locations as soon as possible. The last day to withdraw from classes without responsibility for grades is listed in the Academic Calendar on page 3. Drop dates will vary for classes shorter than full-term. See My Chemeketa for specific dates. If you leave Chemeketa without following the withdrawal procedures mentioned above, you are responsible for tuition and fees and the final grades you receive; they will appear on your transcript of Chemeketa credits.

If you withdraw (drop) using the Web registration system or an add/drop form during the refund period (generally the first two weeks of the term for full term courses), your student account will be credited and you may receive a

Política de acción afirmativa y contra el acoso

Es la política de Chemeketa Community College que no existirá ninguna discriminación o acosoimiento a base de raza, color de piel, religión, sexo, origen nacional, estado civil, edad, incapacitación, embarazo o condición relacionada, durante horas de trabajo, informar contra la compañía, víctima de violencia doméstica, información genética o estado familiar, 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 Deshabilidades de 1990; la Ley de Oregon de Derechos Civiles (ORS 659); y sus regulaciones correspondientes.

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

- se refiere de forma ofensiva a la raza, religión, color, sexo, estado civil, origen, nacionalidad, estatus de ciudadanía, edad, orientación sexual, incapacidad, embarazo y todo lo relacionado, relación familiar, estado de veterano, o uso del tabaco de una persona; 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 la oficial de acción afirmativa, P.O. Box 14007, Salem, Oregon 97309-7070, 503.399.8677.
I. Community

Chemeketa becomes a community of learners when students and faculty work together in the service of teaching and learning. Each has dignity and value. People seeking education, Chemeketa students are dedicated to improving personally and academically. Choosing to join the college community obligates each member to a code of behavior. Chemeketa students will:

A. Practice personal and educational integrity.

B. Maintain standards of academic performance and contribute to the safe, cooperative and respectful learning environment throughout the college.

C. Respect the diversity and dignity of all persons.

II. Code of Behavior

As a community of people seeking education, Chemeketa students are dedicated to improving personally and academically. Choosing to join the college community obligates each member to a code of behavior. Chemeketa students will:

A. Practice personal and educational integrity.

B. Maintain standards of academic performance and contribute to the safe, cooperative and respectful learning environment throughout the college.

C. Respect the diversity and dignity of all persons.

D. Respect the rights and property of all persons.

E. Bear the ultimate responsibility for the effects of their decisions and behavior.

III. Student Rights

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

Tuition

503.399.5011
tuition@chemeketa.edu

By registering for a Chemeketa course, you agree that tuition, fees and other applicable charges incurred will be considered an educational loan between you and Chemeketa Community College that is nondischargable under Section 523(a)(8) of the US Bankruptcy Code. You are further agreeing that if you fail to make any payments as prescribed above, your account may be submitted to a collection agency and applicable collections charges may be added to your account balance due. In case legal action is instituted to collect on your account, you are agreeing 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.
**Credit courses**

Use the chart on page 10 to calculate the cost of your credit tuition. Some classes carry fees in addition to tuition.

**Non-credit courses**

Community Education classes are self-supporting. All of the fees collected from Community Education classes cover all instructional and administrative costs plus supplies, rent, and printing. This program is not funded by the college’s general fund tax dollars, and so the college tuition rates may not apply. You will find the cost of these classes listed in the *Schedule of Classes* and the Community Education Schedule each term.

The term Schedule of Classes lists any charges for Adult Basic Education (ABE), General Educational Development (GED), Basic Skills Development (BSD), and non-credit English for Speakers of Other Languages (ESOL) classes. A one-time-only Testing/Application Fee of $31 is charged to all new applicants seeking to join the ABE/GED, BSD, or ESOL programs. The fee covers the costs associated with the required applicant assessments used for initial placement into the levels and classes of each program. If you are seeking re-entry into an Academic Transitions program, you may not be charged.

Certain courses, such as some training classes, may require separate registration and tuition. For some classes, there are additional charges to cover the costs of required materials.

**Universal Fee**

A Universal Fee applies to both credit and non-credit classes. The fee is $14 per credit for credit classes and 30 cents per hour for non-credit classes.

**Online fees**

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

**Oregon residency**

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 begin. 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. If you are an international student who is required to have an I-20 immigration document, you are considered an international student for tuition purposes for as long as you are required to have that document.

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**B. Assure the protection of confidential student records and information.**

**C. Provide opportunities for association and preserve freedom of expression.**

1. Policy and procedures governing clubs and organizations shall be established by the college.
2. 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.
3. In the classroom, students may take exception to the information and may reserve judgment about matters of opinion, but they are responsible for learning the content of the course.
4. Chemeketa Community College, as publisher, bears in conjunction with the staff of student publications, the responsibility for the content of the publications. The publications shall adhere to all applicable Oregon statutes, such as those regarding mass communications.
5. The student newspaper shall be governed by the Student Newspaper Guidelines and shall follow the Canons of Journalism of the American Society of Newspaper Editors.
6. Student publications shall state that the opinions expressed are not necessarily those of the college or student body.
Refund Policy
To receive a credit or refund you must drop your class using the web registration system (MyChemeketa) or an Add/drop form during the refund period (generally the first two weeks of the term for full term courses). Shorter term courses have different refund deadlines. Be sure to check online for those deadlines.

Refund credits from dropped courses will first apply to any outstanding amounts due on your student account. A refund will be processed if you have no outstanding account balance. Refunds for courses dropped within the refund period are processed beginning the third week of the term. Refunds for classes paid with a credit card are credited back to the credit card. Refunds for classes paid with a check will be issued as a refund check or direct deposit. Refunds for classes paid by Financial Aid resources will be reviewed by the Financial Aid department first and may be credited to your financial aid account. 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.

Foundation scholarships
503.365.4747
foundation@chemeketa.edu

If money is standing between you and your Chemeketa education, the college’s foundation has scholarships available. The Chemeketa Community College Foundation administers several scholarship programs for Chemeketa students. The foundation has a universal scholarship application form which will simplify the process for you. More information can be found at the college website under “Paying for college.”

Other costs and fees
503.399.5011
businessservices@chemeketa.edu

The cost of books and supplies for full-time students is about $450 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 65 to 144.

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.

Cost per credit academic year 2013–2014
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 Students</th>
<th></th>
<th></th>
<th></th>
<th>Out of State &amp; International Students</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td># of credits</td>
<td>Tuition*</td>
<td>Universal Fee</td>
<td>Total Cost Per Credit</td>
<td>Tuition</td>
<td>Universal Fee</td>
<td>Total Cost Per Credit</td>
</tr>
<tr>
<td>1</td>
<td>82</td>
<td>14</td>
<td>96</td>
<td>244</td>
<td>14</td>
<td>258</td>
<td></td>
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<tr>
<td>2</td>
<td>164</td>
<td>28</td>
<td>192</td>
<td>488</td>
<td>28</td>
<td>516</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>246</td>
<td>42</td>
<td>288</td>
<td>732</td>
<td>42</td>
<td>774</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>328</td>
<td>56</td>
<td>384</td>
<td>976</td>
<td>56</td>
<td>1,032</td>
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<tr>
<td>5</td>
<td>410</td>
<td>70</td>
<td>480</td>
<td>1,220</td>
<td>70</td>
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<td>6</td>
<td>492</td>
<td>84</td>
<td>576</td>
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<td>84</td>
<td>1,548</td>
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<tr>
<td>7</td>
<td>574</td>
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<td>1,806</td>
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<td>656</td>
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<td>10</td>
<td>820</td>
<td>140</td>
<td>960</td>
<td>2,440</td>
<td>140</td>
<td>2,580</td>
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<td>1,344</td>
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<td>4,128</td>
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<td>1,632</td>
<td>4,148</td>
<td>238</td>
<td>4,386</td>
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<td>18</td>
<td>1,476</td>
<td>252</td>
<td>1,728</td>
<td>4,392</td>
<td>252</td>
<td>4,644</td>
<td></td>
</tr>
</tbody>
</table>

*At publication, the college was considering revising 2013–14 tuition. See the college website for current tuition.

International students attending on an F1 visa will be charged a non-refundable service fee of $265 per term. International students attending on other visa types will be charged a non-refundable service fee of $75 per term.

Veterans’ Services
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.
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 amount 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 any VA educational benefits received if you withdraw from a class more than 30 days after the term begins or if you fail a class due to non-attendance. Questions on these policies can be directed to the Veterans’ Services staff.

Financial aid
503.399.5018
finaid@chemeketa.edu
If you do not have enough money to attend Chemeketa, the Financial Aid Office in Building 2 on the Salem campus can help you apply for grants, loans, and part-time jobs.

Are you eligible?
To qualify for financial aid, you must:
• Be at least 18 years of age or have a U.S. high school diploma or a General Educational Development (GED).
• Be a United States citizen or able to provide I-94 or other documents showing you are an eligible non-citizen.
• Be registered with Selective Service if you are a male born after December 31, 1959.
• Show need for financial help.
• Enroll in an eligible degree program or a certificate program at Chemeketa.
• Enroll in six or more credit hours at Chemeketa with these restrictions:
  1) If you wish to receive aid as a full-time student, you must register for 12 or more credit hours.
  2) You may not include audited, non-credit, or challenge courses in these totals.
  3) You may repeat a course if you earned lower than a grade of “C” in that course, you may repeat it until you pass it. You may also repeat a course successfully passed one time.
  4) You may count up to 45 credit hours of developmental courses that were recommended by your advisor.
  5) Pell Grants are not restricted by any enrollment level.

What kinds of financial aid are available?
There are three kinds of financial aid available when you are enrolled at Chemeketa:
• Grants and scholarships that you do not repay
• Loans that you must repay
• Part-time jobs
For detailed information, review the chart on pages 12 and 13.

When to apply
Apply for financial aid at least two terms (six months) before you plan to enroll at Chemeketa. Applications are processed in the order the college receives them. Specific deadline dates are on the college website by term. Students can apply in January for the summer or fall term.
It takes at least 12 weeks from the time you file your FAFSA before money can be available to you. If you apply near the beginning of a term, you will need to be prepared to begin paying for tuition, fees, and books with your own money while your financial aid file is being processed.
Recommended application dates are posted in the Financial Aid Office and posted on the college website. If you apply after these dates, you may be eligible only for a Pell Grant and a Direct Student Loan for the following term.
Financial aid applications are accepted throughout the academic year, which begins with summer term. If you

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 our web site: www.chemeketa.edu.
Financial Aid Available at Chemeketa

Except as listed below, all financial aid programs have the following requirements:

- You must file a Free Application for Federal Student Aid (FAFSA) to apply.
- You must be a United States citizen or an eligible non-citizen.
- You must not be in default or owe a refund to any Title IV financial aid program.
- You must use the money you receive to meet the costs of attending Chemeketa.
- If you are a male over 18 years of age and born after December 31, 1959, you must be registered with the United States Selective Service, unless you are currently on active duty with the armed forces. (Membership in the reserves or national guard does not count.)
- You must be in an eligible degree or certificate program.
- You must enroll for at least six credit hours each term for most funds.
- You must maintain satisfactory academic progress.

<table>
<thead>
<tr>
<th>Program and source of funding</th>
<th>Eligibility requirements</th>
<th>Available amounts</th>
<th>Special information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grants and scholarships</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Pell Grant</td>
<td>You must not have a bachelor's degree.</td>
<td>Amounts are based on federal funding.</td>
<td>Pell Grant will send you a Student Aid Report (SAR) indicating your eligibility.</td>
</tr>
<tr>
<td></td>
<td>Lifetime Pell eligibility limits of six years of full-time Pell.</td>
<td>The highest award at Chemeketa for 2013–2014 is $5,645.</td>
<td>Eligibility may be transferred to any post-secondary school participating in federal programs.</td>
</tr>
<tr>
<td>Federal Supplemental Educational Opportunity Grant (SEOG)</td>
<td>You must prove an exceptional financial need.</td>
<td>Amounts range from $450 to $2,000 a year.</td>
<td>The Financial Aid Office will determine and then notify you of your eligibility.</td>
</tr>
<tr>
<td></td>
<td>You must not have a bachelor's degree.</td>
<td>The highest award at Chemeketa for 2013–2014 is $600.</td>
<td></td>
</tr>
<tr>
<td>Oregon Opportunity Grant (Funded by the state of Oregon and the federal government.)</td>
<td>You must enroll half-time (six credit hours or more).</td>
<td>Amounts are based on state funding.</td>
<td>Your grant may be transferred to other Oregon colleges and universities.</td>
</tr>
<tr>
<td></td>
<td>You must be an Oregon resident.</td>
<td>The award at Chemeketa for 2013–2014 is $2,000 (full-time students) or $1,100 for part-time students.</td>
<td>Your grant may be awarded for up to 12 quarters (terms) or for eight semesters.</td>
</tr>
<tr>
<td></td>
<td>You must also apply for a Pell Grant.</td>
<td></td>
<td>You must not be enrolled in a program leading to a degree in theology, divinity, or religious education.</td>
</tr>
<tr>
<td></td>
<td>You must not have a bachelor's degree.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>You must attend a college in Oregon.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Talent Grants (Funded by Chemeketa Community College.)</td>
<td>You must show outstanding ability and achievement in selected fields.</td>
<td>Amounts vary up to the cost of tuition.</td>
<td>No FAFSA is required.</td>
</tr>
<tr>
<td></td>
<td>You must enroll full-time (12 credit hours or more).</td>
<td></td>
<td>Contact an instructor or coach directly associated with your skills or ask at the Financial Aid Office.</td>
</tr>
<tr>
<td>Scholarships (Funded by private donors.)</td>
<td>Determined by donor.</td>
<td>Determined by donor.</td>
<td>Scholarship information is posted in the Financial Aid Office throughout the year. Many postings are made in winter and spring terms for the next academic year.</td>
</tr>
<tr>
<td>Work</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Work Study Program</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Amounts vary according to your financial need.</td>
<td></td>
<td>Jobs are available both on and off campus.</td>
</tr>
<tr>
<td></td>
<td>Funds usually are not more than $1,000 a term or $4,000 a year.</td>
<td></td>
<td>Job instructions are e-mailed to your My Chemeketa account</td>
</tr>
<tr>
<td></td>
<td>Jobs pay minimum wage or higher.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemeketa part-time employment (Funded by Chemeketa Community College)</td>
<td>You must enroll in six credit hours or more.</td>
<td>Pay varies according to the job.</td>
<td>No FAFSA is required.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Jobs pay minimum wage or higher.</td>
<td>Contact the Human Resources Dept.</td>
</tr>
<tr>
<td>Part-time jobs (Funded by private businesses)</td>
<td>You must be willing to work.</td>
<td>Pay varies according to the job.</td>
<td>No FAFSA is required.</td>
</tr>
<tr>
<td></td>
<td>You must meet the qualifications of the employer.</td>
<td>The average wage for 2012–2013 was $9.33 an hour.</td>
<td>Apply at the Career Center in Building 2 on the Salem campus.</td>
</tr>
</tbody>
</table>

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2013–2014 Chemeketa Community College Catalog
<table>
<thead>
<tr>
<th>Programs and source of funding</th>
<th>Eligibility requirements</th>
<th>Available amounts</th>
<th>Special information</th>
</tr>
</thead>
</table>
| Federal Perkins Student Loan Program (FPSL) | • You may borrow up to $3,000 in an academic year.  
• The highest award at Chemeketa for 2013–2014 is $3,000. | • You do not have to pay any interest or principal while in school.  
• You must begin payment six to nine months after you drop your enrollment to less than six credit hours.  
• The current interest rate is 5 percent.  
• You must repay Chemeketa.  
• You must complete entrance counseling online before funds are disbursed.  
• Interest is paid by the federal government while you are enrolled in an approved program.  
• You must attend an entrance and exit interview.  
• Contact the Financial Aid Office for information on repayment and deferments.  
• First-time borrowers must attend class for 30 days before the first check is issued. | |
| Federal Subsidized Direct Loan (Funded with interest subsidy from the federal government.) | • School has the right to deny loan certification and/or limit amount borrowed.  
• Subsidized Direct Loans are limited to 150% of published program length. | • You may borrow up to $2,625 to complete pre-requisites for a program you are trying to get admitted into.  
• You may borrow up to $3,500 to complete the first year of a program of undergraduate education.  
• After completing your first year of undergraduate education, you may borrow up to $4,500 to complete the remainder of a program of undergraduate study. | • After accepting Direct Loans online follow directions for signing MPN and complete entrance counseling.  
• Annual Loan Counseling is required at Chemeketa  
• Required fees will be deducted from your check.  
• You must begin payment six months after you drop your enrollment to less than six credit hours.  
• You may defer payment if you continue half-time or full-time study. Contact the U.S. Department of Education for other possible deferments.  
• You must attend an entrance and an exit counseling session.  
• The variable interest rate is capped at 8.25 percent.  
• The federal government pays the interest while you are enrolled in an approved program.  
• First-time borrowers must attend class for 30 days before the first check is issued. |
| Federal Unsubsidized Direct Loan (Provides for insured loans for borrowers who do not qualify for federally subsidized Direct Loans. Terms and conditions for subsidized Direct Loans apply to unsubsidized Direct Loans.) | • School has the right to deny loan certification and/or limit amount borrowed. | • You may borrow the cost of attendance minus the amount of estimated financial assistance, up to annual loan limits.  
• Students who show need for only part of the annual subsidized Direct Loan limit may borrow the remainder through unsubsidized loans. | • Repayment of principal begins six months after the month in which you cease to be enrolled at least half-time.  
• Interest during in-school, grace and deferment periods may be paid monthly or quarterly, or may be added to the principal amount of the loan not more frequently than quarterly.  
• Annual Loan Counseling is required at Chemeketa  
• Only mothers, fathers, adoptive parents or legal guardians may borrow for dependents.  
• Pay the required fees.  
• Variable interest rate may not exceed 9 percent.  
• Payment begins 60 days after the date funds are disbursed. |
| Federal “PLUS” program (Funded by the federal government.) | • Credit checks will be performed and loan certification may be denied based on adverse credit. | • Parents may borrow up to the cost of attendance minus the amount of estimated financial assistance. | |
do not apply before you start school and later find you need help, you may apply at any time; however, some financial aid programs have limited funds available. If you apply after these funds have been used up, the types and amounts of financial aid you can receive will be limited.

You must apply again for financial aid each school year. The forms for the next academic year are available in the Financial Aid Office each January.

How students are selected

Federal Pell Grant and Federal Direct Loan funds are available throughout the year for qualified students who complete the required processes and enroll for the required credit hours.

The Oregon Opportunity Grant is awarded to qualifying students on an application-date basis determined by the state. Students eligible for the Federal Perkins Student Loan, Federal Supplemental Educational Opportunity Grant, and Federal Work-Study are awarded these funds on the basis of the date of completion of the student's file. Since these funds are limited, applications with the earliest dates are given the highest priority. Not all eligible students will receive these funds.

The amount of the student's award will be determined each year by the Federal Pell Grant and the Oregon Opportunity Grant programs and by Chemeketa for the campus-based programs.

Most funds are disbursed at the beginning of each term. College Work-Study funds are paid on the last business day of the month.

How to stay eligible

To continue to receive financial aid, Chemeketa requires you to register for, complete, and maintain a 2.00 cumulative grade point average (GPA) for the following number of credit hours:

- Full-time students: 12 credit hours
- Three-quarter-time students: nine to 11 credit hours
- Half-time students: six to eight credit hours

- Less than half-time students: complete all credits

All students on financial aid must also have the complete 67% of attempted credits (whether previously receiving aid or not). These requirements apply to each term you are on financial aid, as well as all terms you’re attending Chemeketa.

Academic progress

If you do not meet the minimum term and cumulative credit hours and 2.00 GPA requirements, the Financial Aid Office reviews your progress and may either stop your aid or place you on a warning and allow you one more term to meet requirements. Students who are on “warning”, and do not meet the requirements the following term, will go into “Denied” status and their aid stops. If an Academic Progress Appeal is filed, reviewed and approved, the student will be placed on a “Probationary” status for the following term. Students on “Probation” must be following an academic plan. A student who is on “Probation” and does not meet the requirements will be placed in “Denied” status and will lose their aid eligibility. All students applying for financial aid must have completed 67% of attempted credits.

Your aid stops if you completely withdraw, officially or unofficially from Chemeketa. You may be required to repay all or a portion of any financial aid received.

How long are you eligible?

In general, you may receive financial aid at Chemeketa for 108 credit hours applied to an associate’s degree or 54 credits applied to a certificate. All credits taken at Chemeketa and all transfer credits are included in this limit.

Refunds and repayments

The college policy for tuition refunds applies to all students. See page 10 for details.

If you have received financial aid and completely withdraw officially or unofficially, the Financial Aid Office will determine whether you are entitled to all of the financial aid received. If not, the Financial Aid Office will
determine what portion of the financial aid you owe, and will notify you. Repayments are based on the official withdrawal date. If you owe a repayment, you are not eligible for further financial aid funds and cannot receive any services from the college until the repayment is made. You will receive a copy of this repayment policy and have 30 days from the date of the bill to repay the funds. Students who do not repay in full will have their debts turned over to the U.S. Department of Education for collection.

Help is here

The Financial Aid Office will give you information on applying for aid, your rights and responsibilities in receiving aid, loan repayment schedules, general conditions of employment, and methods used to determine or re-establish your eligibility. The Financial Aid Office will also help you with your concerns about funds and budgeting.

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.

Contacts

- Dallas: Linda Kaufmann, 503.316.3282 or Zelda Emmert, 503.623.5567
- Evening and Weekend Programs: Amanda Patrick, 503.399.5140
- Online: Bonnie Macey, or Kathy Saunders 503.399.7873
- Salem: Nette Abderhalden, 503.399.6559
- Yamhill Valley: Tracie Burger, 503.316.3288
- Woodburn: Irma Guzman, 503.316.3255 or Adrian Lutz, 503.316.3257

Academic Information

Student records and transcripts

503.399.5001
registrar@chemeketa.edu

Student academic records are maintained in the Registrar’s Office for ten years. These records may include transfer credit evaluations, correspondence, curriculum substitutions, and degree evaluation toward graduation. Transcripts of Chemeketa credit courses are kept permanently. You may request your official transcript online through My Chemeketa at my.chemeketa.edu. You may obtain an official transcript in person from the Enrollment Center in Building 2, Room 200, on the Salem campus.
by submitting a written request with the appropriate fee. You can also access this service through My Chemeketa at my.chemeketa.edu for an unofficial transcript. If you owe a financial obligation to the college, your official transcript will be withheld until the debt is paid in full.

Please keep the Enrollment Center informed of any change of address while you are a student at Chemeketa.

OAR 589.004.0400 authorizes Chemeketa Community College to ask you to provide your Social Security number. The number will be used by the college for reporting, research, and record keeping. Your number will also be provided by the college to the Oregon Community College Unified Reporting System (OCCURS), which is a group made up of all community colleges in Oregon and the State Department of Community Colleges and Workforce Development. OCCURS gathers information about students and programs to meet state and federal reporting requirements. It also helps colleges plan, research, and develop programs. This information helps the colleges to support the progress of students and their success in the workplace and other educational pursuits.

OCCURS or the college may provide your Social Security number to the following agencies or match it with records from the following systems:

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

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

Student records policy
503.399.5001
registrar@chemeketa.edu

Chemeketa has established policies and practices to safeguard the privacy of both your paper-based and electronic student records. Under the Family Educational Rights and Privacy Act (FERPA), the college may release basic, limited information (called “directory information”) to anyone who inquires; however, you may request that the college release no information about you by completing a special form, available through the Enrollment Center in Building 2 on the Salem campus.

Family Educational Rights and Privacy Act (FERPA)

This federal statute outlines the rights of students and the responsibilities of educational institutions in the maintenance and security of student records. In general, FERPA affords Chemeketa students the following rights:

- the right to obtain a copy of Chemeketa’s current student records policy;
- the right to inspect and review your own educational records;
- the right to seek to amend your own educational records;
- the right to have some control over the disclosure of information from your own educational records (by authorizing or denying access in writing);
- the right to file complaints of alleged failures to comply with the requirements of FERPA (with the U.S. Department of Education).

Directory information at Chemeketa includes:

- Name
- Credit hour status (time status)
- Dates and terms of enrollment
- Degree or certificate earned and dates earned (including GED certificates)
- Athletic statistics, honors

Please see the Schedule of Classes for additional information.

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 quarter. Letter grades are assigned points according to the following system:

**Grade/Points**

**A/4** 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.

**B/3** 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.

**C/2** 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.

**D/1** 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.

**F/0** Failure. An indication that the student has not adequately met the stated outcomes and criteria of the course.

**IB/0, IC/0, ID/0, IF/0** Incomplete. An “I” must be requested by the student and is given at the instructor's discretion when some essential requirement of the course has not been completed, and additional time is granted for completion of coursework. A contract will specify the length of additional time to complete the course material (standard is one-term). If the contract is not fulfilled then the “I” grade will revert to the specified letter grade. An “I” does not entitle a student to satisfy a prerequisite requirement for another course.

**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. A maximum of 8 “P” credits are allowed toward a one-year certificate. A maximum of 16 “P” credits are allowed toward an associate’s degree.

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

**PL/0** Pass. This grade is used to indicate satisfactory achievement of course outcomes and criteria for Credit for Prior Learning and Credit for Professional Certification. 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. If a course is repeated more than once, only the original grade can be changed to an “R”. This mark cannot be used to change “I” grades.

**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 date each term by which a student may withdraw and receive a refund. Courses marked with a “W” are not reflected in GPA or total credits calculated.

**Incomplete**

You may remove an “Incomplete” from your record by completing course requirements. Your instructor will provide you with a Notice of Incomplete Status in a Course Form, the contract will specify the length of additional time to complete the course material (standard is one-term). When you have met the requirements, your instructor will change the “Incomplete” to a new grade. If the contract is not fulfilled then the “I” grade will revert to the specified letter grade. The Registrar’s Office will officially notify you of the change.

**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.

**Refund policy**

When you register for a class, you agree to pay for it whether or not you attend.

If the college cancels a class, you will receive a full refund of tuition and fees.

If you decide to drop a class, you may do so on My Chemeketa or by submitting an Add/Drop Form to the Enrollment Center on the Salem campus or other college locations during regular business hours. If you drop a class that meets for the entire term (a full term class) within the first two weeks of the term, you will receive a refund of tuition and fees as long as you have no outstanding debts. Less than full term classes have a shorter refund period.

You will not receive a refund or credit toward another class for any classes dropped after the end of the refund period. Refunds for classes paid by credit card will be credited back to the credit card. 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 veterans’ benefits.

See information under “Withdrawal from College,” page 7.

**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 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.

CEU  CEU’s were earned .................................. 0.0
NOC  No CEU’s were earned ................................. 0.0

**Repeating a course**

503.399.5001
registrar@chemeketa.edu

Please confer with your academic advisor before you repeat a course. Students can not repeat a course for credit if the student has three attempts in the course at Chemeketa, unless they are designated as repeatable courses. A student may appeal to register for a fourth or subsequent attempt through an academic appeals process based on major extenuating circumstances. If you do repeat a course and receive a higher grade, and want your original grade changed in your record, pick up and turn in a Student Grade Repeat Request from the Enrollment Center on the Salem campus or at any college location to change your grade to an “R” (Repeated). Please note that both the original course and the repeated course must have been taken at a Chemeketa Community College campus to request the original grade be changed to an “R.” If you repeat a course more than once, only your original grade can be changed to an “R.” If you repeat a course and receive a lower grade, both grades will remain on the transcript. If the original grade is an “N”, “I” or “IB, IC, ID, IF,” it may not be changed no matter how many times you repeat the course. The Registrar does not include an “R” in computing your grade point average and does not count courses with an “R” grade 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.
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 transfer credit 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. Transfer 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, except for the purpose of limited enrollment admission. 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.

T Transfer “C” or better ........................................... 0.0
TD Transfer “D” ....................................................... 0.0
PL Prior Learning ..................................................... 0.0
EC Credit by Exam .................................................. 0.0

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).

Academic Credentials Evaluation, Inc.
280 South Beverly Drive, Suite 312
Beverly Hills, CA 90212
Telephone: 1.310.275.3530
Fax: 1.310.275.3528
www.acei1.com

Auditing courses

If you enroll in credit courses but do not wish to receive grades or credits, you may register as an auditor. See Auditing courses under Money Matters on page 17.

Credit for Prior Learning—alternate approaches to credit

In all cases of Credit for Prior Learning, you must have academic history earned at Chemeketa before the credits can be recorded. The credits may not be used to establish the residency requirement. After evaluation the Credit for Prior Learning will be recorded on your transcript.

Chemeketa will evaluate any of the following learning experiences for credit: Advanced Placement (AP), International Baccalaureate (IB), College Level Entrance Examination Program (CLEP), Military Service Credit, Credit for Professional Certification (CPC) and Prior Learning Portfolio (PLP). A maximum of 25% of a degree or certificate may be recorded through alternate approaches to credit: AP, IB, CLEP, CPC, and PLP. 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.

Academic recognition

recognition@chemeketa.edu

Chemeketa 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 e-mail notification of their honor and may choose to download documents which commemorate their achievement.

Academic progress/review program

503.399.5076

Chemeketa wants to help you reach your academic goals. To accomplish this, the college has initiated an academic progress/review program which provides for intervention at certain points throughout your enrollment at Chemeketa. 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 first-term student taking six or more credit hours who falls below a 2.00 GPA, or
- A continuing student who falls below a 2.00 cumulative GPA with more than 36 credit hours of coursework.

Academic probation status
- A student who is below a 2.00 GPA for a second consecutive term, or
- A student who falls below a 2.00 cumulative GPA, with 36 credit hours or more, for a second consecutive term.

Academic suspension status
- A student who was, during the preceding enrolled term, on academic probation and during the current term earns below a 2.00 GPA. The student will be suspended from further enrollment at Chemeketa 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, meet with the instructor before you register. Consent is based upon the instructor’s assessment of your readiness to enroll in the course.

Credit by Challenge Examination
503.399.6556
testing@chemeketa.edu

Another way to earn credit for some courses is to demonstrate your college-level ability by successfully passing challenge examinations, which are available for a limited number of courses. These examinations are prepared by the college department directly responsible for the instruction of the courses. There is a non-refundable fee of $30 for each exam. If you successfully complete the examination(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 examinations or visit our Website Chemeketa.edu and type counseling in the search box then click on the link to testing and then the link to Challenge exams.

**Advance Placement (AP)**

503.399.6556
advising@chemeketa.edu

If you have taken college level courses in high school under the Advanced Placement Program you may be eligible to receive college credit pending official copies of test results. Request a copy of AP exam scores to be sent to Enrollment Services and submit the Request for Evaluation and Transfer of Previous Credit form. Credit awarded will vary based on scores received. A list of AP exams accepted by Chemeketa and credit received is available at Chemeketa's public website.

Exam transcripts can be ordered from:

**Advanced Placement Program**

PO Box 6671
Princeton, NJ 08541-6671
1.888.225.5427

**International Baccalaureate (IB)**

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

Exam transcripts can be ordered from:

**IB Americas Global Centre**

Attn: Transcript Officer

**College Level Entrance Examination Program (CLEP)**

503.399.6556
testing@chemeketa.edu

You may receive credit for certain college courses by requesting official scores from the College Level Entrance Examination Program (CLEP) sent to Enrollment Services and submit the Request for Evaluation and Transfer of Previous Credit form.

Inquire at Testing Services on the Salem campus to determine which examinations and scores Chemeketa accepts. If you wish to take a CLEP examination, schedule a testing time through testing services in Advising and Counseling Services on the Salem campus chemeketa.edu and type CLEP in the search box.

Exam transcripts can be ordered from:

**CLEP – Transcript Services**

PO Box 6600
Princeton, NJ 08541-6600
1.800.257.9558

Chemeketa accepts CLEP scores for some, but not all, subject areas. A list of exams accepted by Chemeketa and credit received is available on Chemeketa's public website.

**Military Service Credit**

Students using any type of Federal Veterans Administration (VA) Education Benefit, except Chapter 31 Voc Rehab, are required to have all prior credit history evaluated. Chemeketa awards college credit for military training and coursework based on ACE (American Council on

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**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.
Education credit recommendations included in military transcripts. Chemeketa currently does not evaluate military experience. Submit official transcript and the Request for Evaluation and Transfer of Previous Credit form.

Transcripts can be ordered from:

**Joint Service Transcript (JST)** (Army, Coast Guard, Marine Corps, and Navy: Active Duty, Reserve and Veterans)
https://jst.doded.mil/smart/dodMandatoryBanner-Form/submit.do

**Coast Guard (CGI) Transcripts**
Http://www.uscg.mil/hg/cgi/forms/CG_Form_1561.pdf

**Air Force University (CCAF)—Community College of the Air Force**

**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. Up to a maximum of 25% of a degree or certificate may be recorded through alternate approaches to credit. 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.) For more information, contact Advising and Counseling Services on the Salem campus.

**Prior Learning Portfolio (PLP)**
In certain career and technical education programs and transfer subjects 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. Up to a maximum of 25% of a degree or certificate may be recorded through alternate approaches to credit. There is a fee for each course assessed. Students register for PLP121 and PLP122. For more information, contact Advising and Counseling Services on the Salem campus.

**Cooperative Work Experience**
503.399.5028
cwe@chemeketa.edu
As a student, you may be qualified to participate in work-based learning in your career field through the Cooperative Work Experience (CWE) program. This program allows you to combine your classroom studies with work-related experiences.

In this program, a CWE Coordinator 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. You must enroll for the appropriate number of credits for the amount of hours you work per week. The CWE coordinator must approve your training site and the learning objectives that you and your supervisor develop prior to beginning your training. Your participation is required in weekly seminars or in regular meetings with a CWE faculty member to discuss your progress.

CWE training 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.

Most of Chemeketa’s career and technical education programs include CWE for elective credit. The CWE office is located in the Career Center, Building 2, Room 115, on the Salem campus.

**Job readiness classes**—Classes are offered to all students. These classes include Résumé and Job Search Correspondence and Interviewing for Success. These classes are listed under “Job Search” in the Schedule of Classes.

**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.

**Distance education**
http://online.chemeketa.edu/
503.399.7873

Distance education courses are available to students as an alternative to attending one of the Chemeketa campuses. Chemeketa Online offers more than 300 credit and non-credit courses each term. Many students complete a degree with a mix of traditional and distance education courses.
You can complete the Oregon Transfer Module, earn eight degrees and 10 certificates through Chemeketa Online. The degrees available are Associate of Arts Oregon Transfer, Associate of General Studies, Associate of Applied Science in Accounting, Associate of Applied Science in Hospitality Management, Associate of Applied Science in Management, Associate of Science in Speech-Language Pathology Assistant, Associate of Applied Science in Tourism and Travel Management, and Associate of Science Transfer in Business. Significant coursework can be completed through distance education for an Associate of Applied Science in Computer – Assisted Drafting (CAD), Associate of Applied Science in Fire Protection Technology – Fire Prevention, and Associate of Applied Science in Fire Protection Technology – Fire Suppression. You can earn a certificate in Accounting, Business Software, Destination Marketing, Event Management, Hospitality Management, Juvenile Justice, Retail Management, Speech-Language Pathology Assisting, Tax Preparation, Tourism and Travel Management.

Offerings, information and registration procedures about distance education courses are available at http://online.chemeketa.edu

Online courses allow you to take classes at your convenience. You will need access to a computer with required hardware and software. We strongly recommend high-speed Internet access. If you are unable to access high-speed Internet, you may use a modem or other device capable of connecting to the Internet at a speed of at least 56 kbps. It will also be necessary to operate a modern browser such as Internet Explorer (8.0 or higher), Google Chrome, Firefox, or Safari to participate in online classes. A technical orientation and information regarding minimum requirements for your computer browser and software are available at the Chemeketa Online website. Courses with audio, video or graphical components may not load properly if you are using dial-up Internet connection. Some online courses include streaming video or viewing of videotapes as a course requirement. You don’t have to be online at a certain time every day, but you will be expected to log into the course website regularly, 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 provided through forums and e-mail. You will have a current e-mail address listed in your My Chemeketa account. This is the only e-mail address the instructor will use to contact you. When you log into My Chemeketa you will see a Gmail icon in the upper right corner where you can create your e-mail account. Once you’ve done this, you will be able to log into your Gmail account without having to first log into My Chemeketa.

A $50 fee is charged for each online class in addition to tuition and applicable course fees. If you have any questions regarding distance education classes or the schedule, please contact Chemeketa Online at 503.399.7873 or e-mail http://online.chemeketa.edu

**Evening and weekend programs**

Chemeketa offers expanded 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.

**Weekend college**

Students can complete the coursework for the Oregon Transfer Model First Year entirely on Saturdays through the Weekend College. 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.

For more information contact Amanda Rowe, 503.399.5140.

**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.

**Study and Service Learning abroad**

503.428.0399
international@chemeketa.edu

Chemeketa Community College provides opportunities to go abroad while earning Chemeketa Community College transfer credits. Courses are taught by Chemeketa and other Oregon faculty. For specific offerings, see our website go.chemeketa.edu/international

Current programs include: fall quarter in Florence, Italy; spring quarter in London, England or Barcelona, Spain; and summer quarter in Mexico or Costa Rica

For questions about Study or Service Learning Abroad, contact Teter Kapan at the phone number or e-mail above.

**Student Development Services**

**Tours of campus**

503.399.3995
ambassadors@chemeketa.edu

Tours of the Salem campus are conducted by Chemeketa’s Student Ambassadors. You may call or e-mail to schedule a student-guided tour.
Student e-mail accounts  
503.399.7899  
tac@chemeketa.edu
Every Chemeketa student automatically gets a free student Gmail account and access to Google Apps. Your student e-mail 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 e-mail 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  
go.chemeketa.edu/computerlab
Enrolled students are welcome to use this open computer center for Chemeketa-related coursework. Computers run the Windows operating system and many common software applications used in Chemeketa courses. Instructional technicians are available to help students with the software applications. Printing and photo copying is available for a small charge. The center is located on the Salem campus in Library services in Building 9, second floor. Student ID card required (available at the Bookstore).

Tutoring Services  
503.399.5190  
tutor@chemeketa.edu
Tutoring is a free service, provided for all full-time and part-time students currently enrolled in core credit classes at Chemeketa. You can access services in the Tutoring Center, Building 2, Room 210, on the Salem campus, Building 1, Room 200 at Yamhill Valley Campus, or online at go.chemeketa.edu/tutoring. Current term hours are posted on the door and on the web site. You must have a Chemeketa K# to register for these services. Only limited tutoring is available the first week of the term and during finals week.

Disability Services  
503.399.5192 voice/TTY  
disability@chemeketa.edu
Chemeketa offers support services for students with documented disabilities. These services include but are not limited to: academic accommodations for courses and testing, access to facilities and activities, and academic advising.

Services for Deaf and hard of hearing students include sign language interpreting and adaptive equipment. Appointments are necessary for all services. Early contact is advised, as late requests may result in a delay of service.

If you have a documented disability, including learning, psychiatric, sensory, orthopedic, or otherwise, please know that support services are available for you. The Disability Services Office is available to help you assess your needs, coordinate access to facilities and processes, and plan academic accommodations that will make classes accessible.

If you need disability-related accommodations for classes or college events, please contact the Disability Services Office at least two weeks in advance.

Chemeketa Language Center  
503.399.5289
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. 3, Rm. 257 or call 503.399.5289.

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 college credits through selected program-sponsored classes and are eligible to borrow some textbooks 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 students in sixth through twelfth grade an opportunity to explore the benefits of a college education. You can participate in the program by being a mentor for a student in the program. Mentors develop goals and plan for their academic future.

Upward Bound is a college preparatory program for high school students. The program provides services year-round such as tutoring, after-school activities and
Saturday workshops. During the summer, the program provides a six-week 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.

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)**, based in Salem, offers first-year scholarships and academic and personal support for students planning to transfer to a four-year college or university. If you would like more information about CAMP, call 503.589.7778.

- **High School Equivalency Program (HEP)**, located on the Salem campus, is designed to assist 140 migrant and seasonal farmworkers and their families in obtaining the equivalent of a high school diploma (GED) each year. Program elements include instruction in Spanish and English, personalized advising and counseling, tutoring, technology and computer training, cultural enrichment activities, and academic excursions. Benefits to students include an extended/flexible 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.

**Study Skills Center**

503.399.5162

Bldg. 2, Room 212

http://www.chemeketa.edu/earncertdegree/advising/studyskills/studying/index.html

The Study Skills Center 1) serves students college-wide needing assistance with reading strategies and effective learning, 2) provides resources for students currently taking reading and study skills courses, and, 3) offers faculty and staff support for issues related to reading and study strategies. The Study Skills Consultant offers weekly free workshops in the Center available to all students with online versions of the workshops also available. In addition, effective learning and reading resources are available for checkout.

**Writing Center**

503.399.7179
cwc@chemeketa.edu
go.chemeketa.edu/write

The Chemeketa Writing Center will help any Chemeketa student with any writing assignment or project. We offer one-on-one, group, and online consultations with writing instructors. In some academic terms, customized mini-courses on writing basics are also available. We will help at any stage of the writing process from brainstorming to revising and editing, and we have computers for student use. Stop by the Writing Center in the Library in Building 9, call 503.399.7179, or go to go.chemeketa.edu/write. Instructions for the Chemeketa Online Writing Center can also be found at http://online.chemeketa.edu/writingcenter.

**Career Center**

503.399.5026
careercenter@chemeketa.edu
go.chemeketa.edu/careercenter

Looking for ways to pay for school? Maybe you are looking to take the first step on the career ladder with your new degree or certification. The Career Center is here to connect you with potential employers; for jobs while you are in school, for jobs when you graduate or complete your program, and for real-world training opportunities. 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 hold workshops, career fairs, and other activities throughout the year to assist you in achieving your career goals and we encourage Chemeketa students and alumni at all stages of their academic and professional careers to take advantage of the Career Center resources.

**Student Services**

**Alcohol and drug support groups**

503.399.6154
wanda.urban@chemeketa.edu

Support groups for addiction related issues are coordinated through the Human Services Program and staffed by student facilitators. Times and locations of meetings vary each term. For more information, contact Wanda Urban, Human Services Program or visit go.chemeketa.edu/humanservices

**Bookstore**

503.399.5131
bookstore.chemeketa.edu

You may purchase books and supplies at the College Bookstore in Building 1 on the Salem campus and at the
Yamhill Valley campus (1st two weeks of the term). Textbooks, software, reference books and imprinted clothing and gifts are also available on the Bookstore website at bookstore.chemeketa.edu.

Refunds—You may receive full refunds for books the first two weeks of each term for which they were purchased. All books must be returned in their original condition. You must have the sales receipt for the books, student ID card and credit card, (if applicable) in order to receive a refund. All other merchandise has a 30 day return period as long as the merchandise is in resalable condition, (determined by Bookstore staff)

Rentals—Textbook rentals are available on limited titles. Save up to 60% off the new book prices. Ask at the bookstore for more information.

Book buyback—Each term during finals week, the Salem and Yamhill Valley bookstores pay cash (up to 50% of the purchase price) for textbooks that are needed for the next term. You may check our website during finals week to find the value of your textbooks.

Computers and software—Chemeketa students are eligible to purchase computer software at special prices. Some restrictions may apply. Contact the Salem campus bookstore for details.

Regular Bookstore hours—7:30am-5pm, Monday-Friday and extended hours the first two weeks of fall, winter and spring terms and the first week of summer term. Check our website for closure days.

The Student Book Exchange
503.399.5185
asc@chemeketa.edu

The Book Exchange is a non-profit service, run by the Associated Students of Chemeketa, which provides an opportunity for students to buy or sell books at a reduced cost. Books sold must be currently in use at the college.

The Associated Students of Chemeketa receive books during finals week of fall term and winter term and sell books during the first week of winter term and spring term. The Book Exchange is housed in Building 2, Room 176H, on the Salem campus. For more information, contact the Associated Students of Chemeketa at 503.399.5185.

Child care
Chemeketa offers one child care program on the Salem campus. The program is accredited by the National Academy of Early Childhood Programs.

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.

The Financial Aid Office has a list of other child care centers in the Salem area, or you may call Salem’s Child Care Information Service, 503.585.2491. 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.

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 red 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.

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 either campus. 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:

- **FREE Checkout of material!!**
- Wireless internet access
- Computers, laptops and calculators
- Printing and copying
- Quiet study and group work space
- Reserve items (material assigned by instructors)
- Daily delivery of material from regional libraries and beyond
- Local and national newspapers

Chemeketa’s librarians are available to help students and instructors with finding information. The library provides reference service in person, over the phone, and 24/7 assistance from the library website via L/Net. 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 electronic books and articles, requesting and renewing items, and paying fines online. 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.

**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. Students and employees may purchase 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. Individual term permits may also be purchased. 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 campus.

The college suggests you lock your car at all times when on campus and not leave personal effects 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.

**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 leadership opportunities**

At Chemeketa Community College, programs outside the classroom can help you become more fully involved in your education. Chemeketa’s Student Center, located in Building 2 on the Salem campus, is designed to provide space for your recreational, service, and social interests and needs.

There are numerous opportunities for you to get involved. The following is a list of programs in the Office of Student Retention and College Life and across the college that you can get involved in.

**Associated Students of Chemeketa (ASC)**

503.399.5185
asc@chemeketa.edu

The ASC Executive Board represents the Chemeketa student voice on the Chemeketa Board of Education, Oregon Community College Student Association (OCCSA), and various college standing committees. 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, the Book Exchange and the Student Leadership Development program. As a member of this team, you can assist in organizing the Council of Clubs, Club Fairs, and the The Book Exchange, and assist with projects for the Student Leadership Development Program. 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.

**The Chemeketa Courier**

**503.399.5104**

courier@chemeketa.edu

The Chemeketa Courier, Chemeketa’s student newspaper, is published weekly during fall, winter, and spring terms. It is written and prepared by journalism students and has won awards from the Oregon Newspaper Publishers’ Association.

If you are interested in joining The Chemeketa Courier staff as a reporter or photographer, apply for a staff position by contacting the newspaper adviser. Students can also enroll in the class, JNL215, and work on a number of assignments, including page design, distribution, copy editing, headline writing, cartooning, column/editorial writing, etc.

**Building 45**

[http://www.building45.com](http://www.building45.com)

Building 45 is the college’s online literary/arts publication. Current and former Chemeketa students may submit work in a variety of genres (fiction, non-fiction, poetry, art, photography, music, video, multimedia) via an online submission form. An editorial committee comprised of humanities faculty make the selections for publication.

For more information, and to view past issues, please visit [http://www.building45.com](http://www.building45.com).

**College committees**

**503.399.5185**

asc@chemeketa.edu

Student representatives along with Chemeketa employees serve on campus-wide committees including Academic Standards, Curriculum Committee, Legislative 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.
Multicultural Student Services Team (MSS)
503.399.5143
multiculturalcenter@chemeketa.edu
The Multicultural Student Services Team plans events, which increase cultural awareness in 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 within 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.

Study nights
503.315.4262
Study Nights is a service provided to students who may need extra care and assistance with lower division classes such as: CIS101, MTH020–095, RD080–090, WR080–091. Multicultural Student Services supports and staffs the Multicultural Center on Monday and Wednesday evenings from 5–9 pm for Study Nights.

Intercollegiate athletics
503.399.5082
Chemeketa is a member of the Northwest Athletic Association of Community Colleges (NWAACC), which includes community colleges in Oregon and Washington. This highly-organized athletic program provides quality, competitive opportunities for students. In keeping with the standards of the program, emphasis is put on academic progress as well as athletic opportunity.
Chemeketa fields teams in men’s baseball, men’s and women’s basketball and soccer, and women’s volleyball and softball.
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.

Mentor program
503.315.4293
The TRIO Talent Search Mentor Program gives you an opportunity to take part in a community service-learning project. Student mentors are trained to assist middle and high school students—one-on-one—in developing positive self-esteem and encouraging them to continue their education. Mentors attend a seminar course for academic credit, which combines large-group study/training with small-group consultations. Each mentor meets weekly at the middle or high school to assist in-class assignments and other group or one-to-one situations.

Peer Assistants
503.399.5120
peers@chemeketa.edu
Peer Assistants are experienced Chemeketa students who are trained to help others. As a Peer Assistant, you will provide information and referrals, locate resources, and assist students to use the services within the Advising and Counseling Services department.

Student Ambassadors
503.589.7644
ambassadors@chemeketa.edu
This program gives you the opportunity to work as a student leader in a variety of college settings. Student Ambassadors conduct campus tours and provide assistance to prospective students through personal contact and correspondence. You can also be involved in recruitment, promotional and special events, high school visits, and working with international and multi-cultural students. Ambassadors are selected through a competitive application and interview process. As an Ambassador, you may be paid at an hourly rate, a tuition grant, or a combination of both.

Student clubs and organizations
503.399.5185
asc@chemeketa.edu
Chemeketa Community College recognizes a number of organizations that provide a variety of activities for students. For the list of current clubs at Chemeketa, visit the web site at www.chemeketa.edu/collegelife/life/clubs, or contact the Office of Student Retention and College Life in Building 2 on the Salem campus.

Student Retention Assistants
503.399.5147
retention@chemeketa.edu
Student Retention Assistants learn clerical skills on the job and work on retention related activities to improve student success outcomes. They assist in maintaining department records, customer service, filing, inputting data, scheduling, answering phones, ordering office supplies, Textbook Lending Library, and other various duties. Members of this team also help host a one hour talk radio show on a local radio station once a week. Students are selected through an application and interview process to determine their interests, abilities and experience.
Chemeketa Food Pantry
503.399.5117
americorpsvista@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 our Americorps VISTA service member. Donations from students, staff, and the community support it. 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.

If you need food or would like to donate to the Chemeketa Food Pantry, you can stop by Building 2, Room 176 Monday–Friday from 8 am–4:30 pm. Chemeketa ID is required to pickup food.

Textbook Lending Library
503.399.5113
collegelife@chemeketa.edu
The Textbook Lending Library is a service to students as an incentive for students to be successful in their classes. Textbooks may be checked out for an entire term starting the first day of the term on a first-come-first-serve basis. Textbooks must be returned prior to the end of the term. Due to the success and the high demand of our program and in efforts to promote student success, students must obtain a 2.75 term GPA or higher for their last term completed and must have a current Academic Plan to be eligible to checkout textbooks. Stop by the Student Retention & College Life Office located in Building 2, Room 176 to learn more about eligibility requirements.

Conversation Tables
503.365.4686
international@chemeketa.edu
Conversation Tables are facilitated by international and local leaders. The Conversation Tables are held weekly beginning the second week of each term in Building 2, Student Programming Center. Chemeketa students may learn new cultures and new languages such as: Arabic, Chinese, English, French, German, Korean and Spanish. Please note the languages vary from term to term based on availability of facilitators. Please contact us if you are interested in becoming a student leader and facilitation a Conversation Table.

Retention Project Peer Mentor Program
503.399.5118
americorps@chemeketa.edu
The Retention Project Peer Mentor Program aims to improve retention and academic advancement rates of high school students who may be at risk of dropping out of school by providing them with a college student mentor and engaging them in service-learning opportunities. Through participation in a two-credit academic course, Peer Mentors will be trained and assisted by an AmeriCorps Retention Project Member to develop meaningful relationships with community high school students, both in the high school classroom and in after-school settings.

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.

There are also a number of snack and beverage vending machines conveniently located throughout all Chemeketa campuses and centers.
Advising and Counseling Services

Counseling services
503.399.5120
advising@chemeketa.edu

If you are interested in educational, career, or personal counseling, contact our Advising and Counseling Services Center in Building 2 on the Salem campus. Chemeketa’s Dallas, Yamhill Valley and Woodburn locations also provide counseling by appointment.

Career planning classes

Career planning classes are conducted by counseling staff to assist you in choosing or changing careers. In these classes you may:

- gain a better understanding of your interests, values, and skills;
- relate those characteristics to a wide variety of careers;
- find accurate information about occupations and labor market trends;
- develop a personal plan of action.

A current schedule of career planning classes is available in the Schedule of Classes.

New student orientation

New student orientation is required of all new degree or certificate seeking students. View online orientation at my.chemeketa.edu. Using your user name and password, click on the Student tab to find the orientation. Learn about campus resources and services to help you be successful student. For more information, contact Advising and Counseling Services.

Career Information System

A computerized Career Information System (CIS) is available for current and prospective students to use in career decision making. In using this statewide database, you respond to questions concerning your interests, abilities, and preferences. The computer analyzes your responses and prints a list of occupations which may suit you.

In addition, you may:

- obtain descriptions of occupations;
- learn how to prepare and train for specific careers and find out which schools offer such training;
- gather information about the availability of jobs;
- obtain salary information for occupations in Oregon.

SKILLS is a computer program that allows you to compare skills you prefer to use with those required in certain occupations.

For more information on these Career Exploration tools, contact or stop by the Advising and Counseling Services on the Salem campus.
**Academic Advising**

Chemeketa offers academic advising to all students. If you are enrolling in a career and technical education program of study, you may be assisted by a faculty advisor in your program. If you are a full-time "undecided" student who has not chosen a specific program of study or if you plan to transfer to a four-year school, please see a counselor in Advising and Counseling Services on the Salem campus. Advising sessions are offered each term. You may also consult with a advisor at the Dallas, Yamhill Valley and Woodburn locations.

**Services to the Community**

**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. The beautiful and welcoming space of the gallery is also home to readings and round tables organized within the college community. To learn about the current exhibit, check gallery hours or survey the upcoming season, go to go.chemeketa.edu/art or call 503.399.2533.

**Chemeketa Center for Business & Industry**  
503.399.5181 / 503.399.5088  
[go.chemeketa.edu/ccbi](http://go.chemeketa.edu/ccbi)

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 desktop and portable computers with wireless Internet capability. These rooms 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 the workplace. Some of the specific services available to the community include:

**Small Business Assistance**—Providing the tools and the environment for business owners to make great decisions, the Chemeketa Small Business Development Center (SBDC) engages business owners in learning through workshops (on-line and traditional classroom), information (Resource Center and BizCenter.org) and business advisors. Special programs are also included in the mix of services to business owners:

- The MERIT (MicroEnterprise Resources, Initiatives & Training) program provides training and assistance to people considering self-employment. MERIT offers several courses to help potential entrepreneurs develop their business skills and learn the skills and tools needed to run a business. MERIT classes cover a variety of essential business topics, including marketing, bookkeeping, pricing a product or service, writing a business plan, and applying for financing. MERIT clients who have completed the classes also have access to additional resources, such as one-on-one advising and technical assistance, scholarships for advanced training, and assistance with market research and finding funding sources. Classes are offered several times a year in Salem, Yamhill Valley, and Independence. For more information visit merit.chemeketa.edu or call the Chemeketa Center for Business & Industry at 503.399.5088.

- The SBM (Small Business Management) program assists established businesses through monthly classes and individual business advising to improve profitability, gain greater control over business operations, and build a strong business foundation.

- The OK (Opportunity Knocks) program is peer advising teams of established business owners acting as external board of directors for each other.

- Our E-Ship (Entrepreneurship) online courses offer an opportunity for business owners in all stages of business to earn credit taking courses using their own business as their case study.

- Our Business Accelerator assists your business to grow and prosper within a supportive environment. Ten office spaces house start-ups, and services include monthly advising and regular educational offerings.

**Customized Training**—Specific trainings are tailored for employees and delivered at a convenient location, date, and time. Clients include industry sectors, businesses, organizations, and government agencies. Through state-wide and regional networks, the Chemeketa Center for Business & Industry has access to hundreds of trainers. See page 45 Business and Industry Certification.

**Services include:**

- **Online Workshops**—a full range of Internet-based workshops offered each term. Take classes from home or work on your computer; instructors interact via e-mail. Over 200 topics including: small business management, accounting software, Social Media, A+ Certification, Microsoft Office, web design, project management, and languages.
• **Employee Skill Development**—A wide variety of employee and organizational development trainings are available, including math, writing, inter-personal communications, problem solving, English as a Second Language, leadership, supervision, and manufacturing. Courses are tailored to meet employer needs.

• **Command Spanish**—Participants learn one-way communication in Spanish. Short, outcome-based workshops and classes for dentists, nurses, law enforcement officers, bank tellers, teachers, firefighters and many other professionals yield immediate benefits for patients, employees, and customers. No prior knowledge of Spanish is required.

• **Computer Training**—A state-of-the-art computer lab for technical skills and A+ certification preparation training for individuals and organizations. Internet capability available. Classes are designed to increase work-related skills and productivity and can be customized to meet your needs.

• **Energy Efficiency**—Professional development workshops are available for contractors, building owners, architects.

### Community education classes

**503.365.4773**

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, cooking, dance, driver’s education, fitness, foreign language, health, home projects, music, continuing technical education, travel, welding, 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 website at www.chemeketa.edu/classforfun. To have a Community Education Class publication mailed to you, call 503.365.4773.

The Community Education Program is always interested in ideas for new classes and potential instructors who have teaching experience, enthusiasm, and a desire to share knowledge. Please call 503.365.4773, or e-mail CEInfo@chemeketa.edu.

### Chemeketa Cooperative Regional Library Service

**503.399.5043 • 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 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 720,000 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.

### Agribusiness Management Programs

**503.399.5139**

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.

For more information, call 503.399.5089 or 503.589.7759.

These classes are ideally suited for agricultural business 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
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.

Outreach programs
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, 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.

Planetarium
503.399.5200 or 503.399.5246
Chemeketa's Planetarium is in Building 2 on the Salem campus. It features a Spitz model 512 sky instrument that projects 2,500 stars, five planets, the sun and moon, and sky coordinates on a 35-foot metal dome. This instrument can project the sky for any date—past, present or future—as seen from any location on earth, and can simulate all motions of the earth.

Chemeketa usually presents one to two different sky shows each fall, winter, and spring term. Showings are scheduled Friday nights when classes are in session. There is an admission fee with a special rate for students. Call to arrange group showings for schools, clubs, and organizations.

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.
Degrees, Diplomas, 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 degree, an Associate of Science-Business transfer degree, an Associate of Applied Science degree, an Associate of Science degree or an Associate of General Studies degree. All are nationally recognized degrees.

Oregon Transfer Module

The Oregon Transfer Module comprises one year of coursework exclusively in general education, which can lead either to an AAOT or AS/OT-BUS transfer degree from Chemeketa or to a baccalaureate degree from any public Oregon college or university in the Oregon University System and will result in sophomore standing.

To earn the module, which is equivalent to three academic quarters or 45 credits, you must select from a list of approved courses listed on page 50. 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 core 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. You must earn a grade of “C-” or better in all courses and have a minimum cumulative GPA of 2.0 to complete the degree.

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

Beginning summer term 2010, there were changes to the AAOT degree (see p. 53) that are consistent across all of
Oregon’s 17 community colleges. Two content areas are embedded in required courses:

- **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, you will find cultural literacy is called Difference, Power, and Responsibility and courses are available in the arts and letters and social science areas (see the AAOT guide on page 51 for Cultural Literacy courses).

- Also note that, in most areas, courses not credits are required to meet the degree (90 credit hours total). Contact a college advisor for more information.

See the program guide on pages 46 to 49 for a complete list of our transfer programs. Information and curriculum guidelines begin on page 65.

**Associate of Science/Oregon Transfer Business degree**

The Associate of Science/Oregon Transfer Business Degree is a focused academic program that provides you with a marketable degree and keeps open your options for transfer to a baccalaureate program. By earning this degree from Chemeketa, you will have fulfilled the lower division general requirements at any of the schools in the Oregon University System 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/program of choice; that is ultimately up to the institution to which you apply.

This statewide degree must be taken as designed; that is, courses or sequence requirements may not be added or removed. To qualify for this degree, you must meet the requirements listed on page 52.

**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 54.

**Associate of Applied Science degree**

Chemeketa, with its emphasis on career and technical education, offers preparation in more than 40 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. In some programs of study, there are prerequisites to enter the program. See the program guide on pages 46 to 49 for a complete list of Associate of Applied Science degree programs. Information and curriculum outlines of these programs begin on page 65.

To qualify for an Associate of Applied Science degree, you must meet the requirements listed on page 53.

**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 55.

**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 46 to 49 for a complete list of Certificate of Completion programs. Information and curriculum outlines of these programs begin on page 65.

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 cumulative grade point average of 2.00 or above for all coursework which applies to the certificate;
- Complete a minimum of 15 credit hours at Chemeketa, and–
• Apply courses numbered 050 or higher toward a certificate—

Many programs have other certificates that credential you to work in jobs in your field while attending college. 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.

Second degree
To earn a second degree, certificate or diploma, students must meet any additional requirements stated in the catalog.

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 the Enrollment Center in Building 2, Room 200, on the Salem campus 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 on page 3 and 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 must contact your program advisor for current or equivalent course substitutions.

Chemeketa awards adult high school diplomas through its High School Completion program. The Oregon Department of Education issues General Educational Development (GED) certificates. For details on the High School Completion and GED programs, see page 39.

Classes required to complete the programs outlined in this catalog are offered on the Salem campus and through distance learning options. Some of the classes are also offered at Chemeketa’s Dallas, Yamhill Valley and Woodburn locations.

Occupational Skills Training
503.399.7398

You can earn college credit and a Certificate of Completion for work-based training at approved community 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 130 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.

Office of High School Programs
Chemeketa has several programs to help you earn the high school credits needed for a high school diploma or its equivalent. Students must be 16 year old to participate. Information is available for all programs at the Salem High School Programs Office 50/102 or at community locations.

Students below the age of 15 will not be allowed to enroll in credit or developmental ed classes. Certain 15 year olds may be accepted after completing specific requirements. (See enrollment policy for under 16).

Alternative High School Programs
GED Options—Chemeketa Locations
GED Options programs for high school aged students are available at many of Chemeketa’s locations. Day, afternoon and evening sessions are available on the Salem Campus. If you are interested in getting a GED through Chemeketa and need classes preparing for testing, please contact 503.399.5293 for orientation and enrollment information

Winema High School
Winema High School programs are specially designed for students who have not been successful in a traditional high school setting, but who have the desire and ability to earn a high school diploma. Winema operates day and evening programs on the Salem campus; satellite programs are available in Sheridan and Woodburn. Winema offers a great opportunity to earn a high school diploma in a college environment. Students must be 16-21 years old, complete an enrollment information packet and skills testing. You must be enrolled in the program full time and must be 16-18 years old. Many school districts sponsor students for enrollment and a charter school option is also available.
For more information or enrollment/orientation dates, contact the program at 503.399.5293 or 503.399.5115 (Salem), 503.589.7650 (Woodburn), or 503.843.3770 (Sheridan).

AVE and Winema Options

Chemeketa’s Salem campus offers a program designed to help high school students, aged 16–21, who need additional skill development in reading, writing, math and English Language skills (listening, speaking, writing and reading). These two programs are designed to assist students to develop prerequisite academic skills before entering a diploma or GED Options programs.

For more information contact the program at 503.365.4705.

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 campuses. 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 or 503.399.5115.

Expanded Options

In partnership with various school districts, full time high school students are able to take college courses to complete high school diploma requirement. Referral from your local high school is necessary. Please contact your high school counselor for information.

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 the Winema School Office in Building 50/102 on the Salem campus or to Chemeketa’s Yamhill Valley or Woodburn locations. 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 or 503.399.5115 for more information.

Academic Transition 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.

General Educational Development (GED)
503.399.6556

You may earn a high school equivalency certificate by passing General Educational Development (GED) tests in English or Spanish. There are five tests covering language arts (writing and reading), social studies, science, and mathematics.

Chemeketa offers classes throughout the college district to help you prepare for these tests. Classes are held at the Dallas, McMinnville, Woodburn, and Salem locations. Generally, you must be 18 years or older, but if you are 16 or 17, see Alternative High School Programs, GED Options.

GED Tests are given in Salem, McMinnville, and Woodburn. The fee is $155. To request disability related accommodations, please call 503.399.5192

Adult Basic Education (ABE) and General Educational Development (GED) Classes
503.399.5224

Adult Basic Education (ABE) and General Educational Development (GED) programs offer day and evening non-credit classes to review basic skills in reading, writing, and math, and to prepare you to pass the five GED tests in language arts (writing and reading), social studies, science, and math in order to earn your high school equivalency certificate. Classes are offered in:

- Pre-GED and GED level reading
- Social studies and Science
- Pre-GED and GED level writing
- Pre-GED and GED level math
- Computer Basics
- GED Health Care Classes
- Spanish GED

Classes are held at the Salem, Woodburn, McMinnville and Dallas locations.

Basic Skills Development
503.399.5224

The Basic Skills Development program offers non-credit classes to those college students who would like a one-term review of reading, writing, or math skills by taking non-credit Adult Basic Education classes.

English for Speakers of other Languages (ESOL)—non-credit program
503.399.6298

The ESOL Program provides instruction designed to improve non-native English-speaking students’ ability to read, write, listen, and speak in English as a second language with additional classes in pronunciation, grammar, and basic computer skills for students from the beginning level to advanced (college-transition) level. Classes are offered in the day and evening in Salem, Yamhill Valley, and
Woodburn. If you want to learn more about ESOL classes, contact the ESOL program to find out about language assessment and enrolling in classes. The program also offers language assessment and description of language abilities to employers and individuals for a small fee.

**English as a Non-Native Language (ENL)—credit program**

503.399.6298

The Chemeketa ESOL program also offers intermediate to advanced level credit courses for non-native speakers of English at the Salem campus to help students prepare for college or work. Courses include academic reading, writing, listening, and speaking, computer/technology skills, pronunciation and English grammar. For more information, refer to course listings under ENL in the quarterly Schedule of Classes.

Classes are available in both the day and the evening in Salem, Woodburn and Yamhill Valley. New students can also make an appointment to have their English language skills evaluated. Contact the ESOL office in your city for more information.

**Chemeketa Language and Culture Institute**

503.428.0399
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**

503.399.6298

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 continue to enroll in classes as long as they wish to transfer to ESOL or ENL classes as appropriate.

**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 reading, vocabulary building, 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 Study Skills Center in Building 2, Room 212, on the Salem campus. Classes in reading, spelling, and vocabulary building are also offered at the Dallas, Yamhill Valley and Woodburn locations.

**College-level Reading and Effective Learning courses (Study Skills)**

These courses serve as a foundation for success in other college courses by developing essential critical thinking, reading, writing, and learning strategies. For more information, refer to 100-level and above course listings under Reading and Study Skills in the quarterly Schedule of Classes.

**College Transfer**

**General information**

Chemeketa offers the Oregon Transfer Module and the Associate of Arts Oregon Transfer degree, as well as individual transfer courses for students who wish to begin their bachelor’s degree at the community college. You can complete most of the degree’s general education requirements and begin work on the requirements for a specific major while studying at Chemeketa.

If you plan to transfer credits toward a bachelor’s degree, follow these steps:

- Contact the four-year university you plan to attend to check entrance requirements and the suggested freshman and sophomore classes required in your chosen field.
- Confer with a Chemeketa counselor or an academic advisor before you register.
- Check with the college or university a term or two before completing your work at Chemeketa to make sure you are meeting all requirements.
- Apply for admission as a college transfer student and transfer your credits to the four-year institution.

Chemeketa offers the Associate of Science/Oregon Transfer degree in Business for students who wish to transfer to
a business program at any of the schools in the Oregon University System.

**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:

**Linfield College**  
503.399.5121  
**George Fox University**  
888.888.0178  
**Corban University**  
503.589.8195  
**Western Oregon University**  
877.877.1593

**Curriculum requirements**

General education requirements for Oregon’s four-year colleges and universities are listed on pages 56–62. Advising and Counseling Services also has advising sheets specific to these institutions, which include Eastern Oregon University, Oregon Institute of Technology, Oregon State University, Portland State University, Southern Oregon University, Oregon Health Sciences University, Pacific University, University of Portland, Corban College, Western States Chiropractic College, Willamette University, and the University of Portland.

**Military Science (Army ROTC)**

Military Science (MS) courses are offered through a dual enrollment agreement with either Oregon State University or Western Oregon University. You may enroll at OSU or WOU in:

- MS111, 112, 113 Adventure Training (one credit each)
- MS211, 212, 213 Military Science II (three credits each)

All courses may be applied to the Military Science program or used as electives. Courses are taught off campus. For further information on Army ROTC courses or any other aspect of the program, contact the Department of Military Science, 541.737.3511.

**General Education**

**Philosophy**

Courses in general education offer students unique opportunities to investigate the major areas of study. These courses are designed to foster intellectual growth and to build an understanding of the interdisciplinary nature of knowledge.

General education courses offer students a coherent core of studies that develop the habits of mind that lead to thoughtful and productive global citizenship. Overall, general education provides opportunities for lifelong learning and the ability to integrate concepts and ideas across disciplines.

**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 to guide the purpose 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.

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;
• Build and manage relationships.

In Writing
• Read actively, think critically, and write purposefully
and capably for academic and, in some cases, profes-
sional 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 require-
ments of the AAOT degree. See page 51 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 Writing121, 122 and/or 227 courses, 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 229 for descriptions of the writing
courses.

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 or 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.
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)

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<tr>
<td>Basic Corrections</td>
<td>Marshall Roache, 503.399.5209</td>
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<td>Basic Law Enforcement</td>
<td>Marshall Roache, 503.399.5209</td>
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<td>Sheldon Schnider, 503.589.7875</td>
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<td>DEQ Onsite Wastewater Installer</td>
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### Business and Industry Certification Preparation

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* Credit, ** Non-credit, *** Available online
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 Counseling and Career Services or a program advisor to complete the admissions process.

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**Agriculture, Food, and Natural Resources**

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**Arts, Information, and Communication**

| Visual Communications Programs               | ✔           | ✔   |         |         |           | 138  |
| • Graphic Design                             | ✔           | ✔   |         |         |           | 139  |
| • Interactive Media                          | ✔           | ✔   |         |         |           | 140  |

**Business and Management**

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## Human Resources

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## Industrial and Engineering Systems

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### Other Programs

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<td>English as a Non-Native Language</td>
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Oregon Transfer Module

General Education Requirements

Complete a minimum of 45 credits. All courses must be passed with a grade of "C-" or better. These must include the following:

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<tr>
<th>Requirements</th>
<th>Amount</th>
<th>Courses which satisfy requirements</th>
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<tbody>
<tr>
<td>Writing</td>
<td>2 courses</td>
<td>WR121* and WR122*, or WR227*</td>
</tr>
<tr>
<td>Oral Communication</td>
<td>1 course</td>
<td>COMM100, COMM111, COMM112, COMM115**, COMM130, COMM218, COMM219**, or COMM237**</td>
</tr>
<tr>
<td>Mathematics</td>
<td>1 course</td>
<td>MTH105 or above</td>
</tr>
<tr>
<td>Electives</td>
<td>As required to bring the total credits to 45. Course must be from the Arts and Letters, Social Science, or Science/Math/Computer Science subject areas.</td>
<td></td>
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</tbody>
</table>

Notes:
1. Each course must be worth at least three 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.

* These courses fulfill the Information Literacy requirement of the AAOT. A minimum of one course fulfills this requirement.

** These courses fulfill the Cultural Literacy requirement of the AAOT. A minimum of one course fulfills this requirement.
Complete a minimum of 90 credit hours. All courses must be completed with a grade of "C-" or better. These must include the following:

- **Foundational Requirements**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Amount</th>
<th>Courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health/Wellness/Fitness</td>
<td>3 credits</td>
<td>Any PE185 course (one credit each); any HE or HPE course (three credits each)</td>
</tr>
<tr>
<td>Mathematics</td>
<td>1 course</td>
<td>MTH105 or above</td>
</tr>
<tr>
<td>Writing</td>
<td>8 credits</td>
<td>WR121* and either WR122,* or WR227*</td>
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</table>

- **Discipline Studies**

  Courses used to meet the Foundational Requirements (above) in the Mathematics and Oral Communication categories may not be used to meet the Discipline Studies Requirements (below).

  |                                    |          | Choose a fourth course from the list above or below: CIS233J, 234J; CS160, 161, 162, 260, 271; MTH105 or above |

- **Electives**

  A total of 12 credit hours in career and technical education may be applied toward an Associate of Arts Oregon Transfer Degree. The following courses will not apply: BT104, 105, MTH105-095; RD080, 090; SSP651; WR060, 065, 080, 090, 091

Notes:
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. 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 met 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.
* These courses fulfill the Information Literacy requirement of the AAOT. A minimum of one course fulfills this requirement.
** These courses fulfill the Cultural Literacy requirement of the AAOT. A minimum of one course fulfills this requirement.
## Associate of Science/Oregon Transfer Degree in Business

### Requirements | Amount | Courses which satisfy requirements
--- | --- | ---
**Base Requirements**
- **Foundational Requirements**
  - **Computer Applications**
    - A minimum of three credits. Proficiency in word-processing, spreadsheet, database, and presentation software as demonstrated by successful completion of applicable courses
    - 3 credits
    - Computer Information Science: CIS101, CIS125A, CIS125E
    - Computer Applications: CA208
  - **Mathematics**
    - A minimum of three courses for which MTH095 is a prerequisite, including one course in statistics
    - 3 courses
    - MTH105 or above, MTH243, and one additional math course:
      - MTH244 for PSU
      - MTH244 or MTH241 for EOU, SOU
      - MTH241 for OSU, WOU, UO
    - Oral Communications
      - One course in the fundamentals of speech or communication
      - 1 course
      - COMM100, 111, 112, 115**, 130, 212, 218, 219**, or 237**, 285
  - **Writing:**
    - A minimum of eight credits of college-transfer writing courses
    - 8 credits
    - WR121* and either WR122* or WR227*
  - **Discipline Studies**
    - Courses used to meet these requirements must be at least three credits each
    - **Arts and Letters**
      - Three 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.
      - 3 courses
      - Choose a fourth course from the list above or below:
        - CIS233J, 234J; CS160, 161, 162, 260, 271; MTH105 or above
    - **Sciences/Math/Computer Science**
      - Four courses chosen from two or more disciplines, including at least three laboratory courses in biological or physical science
      - 4 courses
      - Choose three courses from:
        - BI101, 102, 103, 131, 132, 133, 143, 153, 211, 212, 213, 230, 231, 232, 233, 234;
      - Choose a fourth course from the list above or below:
        - CIS233J, 234J; CS160, 161, 162, 260, 271; MTH105 or above
    - **Social Sciences**
      - Four courses chosen from two or more disciplines, with a minimum of two courses in "principles of economics" (to include microeconomics and macroeconomics) at the 200 level
      - 4 courses
    - **Business-Specific Requirements**
      - Each course in this section must be completed with a grade of C or better
      - **BA101 Introduction to Business A minimum of three credits.**
        - 4
        - BA101
      - **BA211 Fundamentals of Financial Accounting**
        - 4
        - BA211, BA212, and BA213
      - **BA213 Decision Making with Accounting Information** (or BA211, BA212 Financial Accounting 1, 2, and BA213 Managerial Accounting) **A minimum of eight credits.**
        - 4
        - BA226
    - **Electives and/or University-Specific Prerequisites**
      - 8–14 credits
      - Depends on choice of transfer institution. See an advisor. 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, 090; SPO51; WR060, 065, 080, 090, 091.
      - EOU—WR227
      - OIT—BA206, BA223, and PSY201
      - OSU—BA275 or MTH244, and COMM111
      - PSU—BA214, CIS121, and COMM111
      - UO—MTH244

### Notes:
1. For transfer students graduating from high school in 1997 and thereafter, the Oregon University System has a second language admission requirement: two terms of a high school-level second language with an average grade of "C-" or above, or two years of the same high school-level second language with an average grade of "C-" or above, or satisfactory performance on an approved second language assessment of proficiency. American Sign Language meets this second language admission requirement.
2. Students must have a minimum cumulative GPA of 2.0 at the time the ASOT-Business is awarded.
3. Any student having the ASOT-Business degree recognized on an official college transcript will have met the lower division General Education requirements of baccalaureate degree programs at any institution in the Oregon University System.
4. 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.
5. Electives should be taken to meet the requirements of your transfer institution. See your advisor for assistance.
6. Complete a minimum of 24 credits at Chemeketa.
* These courses fulfill the Information Literacy requirement of the ASOT-Business. A minimum of one course fulfills this requirement.
** These courses fulfill the Cultural Literacy requirement of the ASOT-Business. A minimum of one course fulfills this requirement.
## Associate of Applied Science Degree Requirements

<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>Complete the required courses and credits listed for each career and technical education program. See pages 65 to 144 in this catalog for career and technical education programs. You will meet the degree requirements if you follow the curriculum listed for your program.</td>
</tr>
<tr>
<td><strong>Related Instruction and Digital Literacy Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication/Writing</td>
<td>3/4</td>
<td>One course of WR060, WR115, WR121, or higher writing course, or approved program substitute</td>
</tr>
<tr>
<td>Computation/Mathematics</td>
<td>3/4</td>
<td>One course of MTH052 or any higher numbered math course.</td>
</tr>
<tr>
<td>Human Relation/Psychology/Sociology</td>
<td>4</td>
<td>PSY101, PSY104, PSY201, PSY202, PSY206, PSY237, PSY239, PSY282, SOC204, SOC205, SOC206, SOC210, SOC213, or approved program substitute</td>
</tr>
<tr>
<td>Digital Literacy</td>
<td>0–4</td>
<td>Any CS or CIS course or any of the following program-approved courses. Check with your program advisor if you have any questions related to this requirement.</td>
</tr>
<tr>
<td><em>CIS101</em> Intro to Microcomputer Applications</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td><em>CIS120</em> Computer Information Science I</td>
<td>4 cr</td>
<td></td>
</tr>
<tr>
<td><em>DRF165</em> CAD System Administration</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td><em>CAM160</em> Programming CNC Mills</td>
<td>4 cr</td>
<td></td>
</tr>
<tr>
<td><strong>General Education Electives</strong></td>
<td>3/4</td>
<td>Arts and Letters&lt;br&gt;American Sign Language, Art, Communication, English, Film Arts, Foreign Language, Humanities, Journalism, Music, Philosophy, Religion&lt;br&gt;Science/Applied Science&lt;br&gt;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&lt;br&gt;Social Science&lt;br&gt;Anthropology, Chicano/Latino Studies, Economics, Geography, History, Human Development and Family Studies, Political Science, Psychology, Social Science, Sociology, Women's Studies</td>
</tr>
<tr>
<td>A minimum of three additional credits from any of these areas</td>
<td>3/4</td>
<td>Arts and Letters&lt;br&gt;American Sign Language, Art, English, Film Arts, Foreign Language, Humanities, Journalism, Music, Philosophy, Religion, Speech, Writing**&lt;br&gt;English as a Non-Native Language**&lt;br&gt;Any course with an ENL prefix&lt;br&gt;Health and Human Performance/Physical Education&lt;br&gt;Any course with an HE, HPE, or PE prefix&lt;br&gt;Mathematics&lt;br&gt;Any course with a MTH prefix&lt;br&gt;Reading**&lt;br&gt;Any course with an RD prefix&lt;br&gt;Science/Applied Science&lt;br&gt;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&lt;br&gt;Social Science&lt;br&gt;Anthropology, Chicano/Latino Studies, Economics, Geography, History, Human Development and Family Studies, Political Science, Psychology, Social Science, Sociology, Women's Studies&lt;br&gt;Study Skills**&lt;br&gt;Any course with an SSP prefix</td>
</tr>
</tbody>
</table>

**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 44.
6. Some of Oregon’s four-year institutions accept certain courses in career and technical education programs as college transfer courses. If you are interested in continuing your education after completing a Chemeketa program, check with the institution you plan to attend.

* Indicates a course prerequisite or requirement related to the course. For further information contact your program advisor or college advisor.

**Courses must be 100 level or higher.
Associate of Science Degree Requirements

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

- General Education Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credit Hours</th>
<th>Courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Arts and Letters</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


| **Mathematics**               | 4            | MTH111 or higher |


| **Physical Education or Health** | 3          | Any PE185 course (one credit each) or any Health and Human Performance course (three credits each) |


| **Social Science**            | 9            | ATH101, 102, 103, 153, 180, 212, 214, 215, 231; CLA201, 202, 203; EC200, 201, 202, 203; GEG105, 106, 107, 140, 190, 201, 202, 206, 207, 220; HST104, 105, 106, 157, 158, 201, 202, 203, 228, 237, 257, 258, 262, 269, 270, 279; PS201, 202, 203, 205; PSY100, 101, 104, 201, 202, 206, 213, 217, 237, 239, 282; SOC204, 205, 206, 210, 213, 221, 232, SSC100, WS101, 102 |

| **Writing**                   | 6            | WR121 and one additional writing course for which WR121 is a prerequisite |

- Electives

All elective credits must be numbered 100 or above and be lower division collegiate courses

Complete additional courses to bring the total number of credits to 90

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 universities. 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 Science 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

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

#### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
<th>Courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Literacy</td>
<td>0–4</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>As demonstrated by course completion or competency testing</td>
<td></td>
<td>CIS101* (or higher) Introduction to Microcomputer Applications 3 cr</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CIS120* Computer Information Science I 4 cr</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DRF165* CAD System Administration 3 cr</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAM160* Programming CNC Mills 4 cr</td>
</tr>
</tbody>
</table>

#### Health and Human Performance/Physical Education

A maximum of 12 credits of physical education (PE185) may be applied toward the degree.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
<th>Courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health and Human Performance/Physical Education</td>
<td>3</td>
<td>Any PE185 course (one credit each); any HE and HPE course (three credits each); or three terms of PE180, PE185, or higher course (one credit each).</td>
</tr>
</tbody>
</table>

#### Mathematics

A minimum of four credits with a grade of C- or better

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
<th>Courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
<td>4</td>
<td>MTH095 or above</td>
</tr>
</tbody>
</table>

#### Oral Communication

A minimum of three credits

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
<th>Courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Communication</td>
<td>3</td>
<td>COMM100 or above</td>
</tr>
</tbody>
</table>

#### Writing

A minimum of six credits with a grade of C- or better

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
<th>Courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing</td>
<td>6</td>
<td>WR121 and one additional course from WR122, 227, 240, 241, 242, 243, 244, 245, 262; or BA214</td>
</tr>
</tbody>
</table>

#### Distribution Requirements

Each course must be a minimum of three credits and numbered 100 or above

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
<th>Courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Letters</td>
<td>9</td>
<td>Art, American Sign Language, Communication, English, Film Arts, French, Humanities, Journalism, Japanese, Music, Philosophy, Religion, Russian, Spanish, Writing</td>
</tr>
<tr>
<td>Science</td>
<td>8</td>
<td>Biology, Chemistry, Geology, General Science, Physics</td>
</tr>
<tr>
<td>Social Science</td>
<td>12</td>
<td>Anthropology, Chicano/Latino Studies, Economics, Geography, History, Political Science, Psychology, Sociology, Social Science, Women’s Studies</td>
</tr>
</tbody>
</table>

#### Electives:

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 146 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.
**Eastern Oregon University**  General Education Requirements (Core Curriculum)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>EOU Credit hours</th>
<th>Chemeketa courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Core</td>
<td>Minimum 45 hours</td>
<td>The General Education Core (GEC) contains four categories: Aesthetics and Humanities; Social Science; Natural, Mathematical, and Information Sciences; and Artistic Process and Creation. Students must complete 60 credits; a minimum of six credits from at least two different disciplines in each category. No more than 20 credits in each category may count toward the GEC requirement. The Gateway is an optional category in the GEC in which a maximum of 15 credits from this group may be applied toward the 60 GEC credits required.</td>
</tr>
<tr>
<td>Natural, Mathematical, and Information Sciences (SMI): Courses must be in at least two different disciplines</td>
<td>6–20 credits</td>
<td>BI101*, 102*, 103*, 153, 211, 212, 213, CH121, 122, 123, 221, 222, 223, FRP171, 232, GE105, GEO142, 143, 144, 201, 202, 203, GS104*, 105*, 106*, 107*, 142*, 143*, MTH211, 212, 213, 241, 243, 244, 251, 252, 253, 254, 255, OC133, PH111, 201, 202, 203, 207, 211, 212, 213</td>
</tr>
<tr>
<td>Artistic Process and Creation: Courses must be in at least two different disciplines.</td>
<td>6–20 credit</td>
<td>ART115, 116, 117, 131, 132, 221, 239, 261, 265 272, 291, 292, 293, MUS105, 174, 197, WR240, 241, 242, 262</td>
</tr>
<tr>
<td>Gateway</td>
<td>Up to 15 credits</td>
<td>COMM111, 218; WR121, 122</td>
</tr>
</tbody>
</table>

*Indicates courses offered through distance education.

Students entering EOU who have earned an Oregon Associate of Arts Transfer degree or an Associate of Science In Business Oregon Transfer degree from Chemeketa will be considered as having met the lower division general education distribution requirements at Eastern.

**Notes:**
1. A maximum of 120 credit hours of lower division course work may be applied toward a baccalaureate degree.
2. Students with an AAOT from an accredited Oregon community college will be considered as having met the general education distribution requirements at Eastern. Additional options for general education completion can be found at www.eou.edu/registrar/transfer/.
3. For the Bachelor of Science degree (B.S.) and the Bachelor of Arts (B.A.): In addition to completing the General Education Distribution Requirements, students are required to demonstrate the application of mathematics at the college level. Means for satisfying this requirement will be limited to any mathematics or statistics course that has a prerequisite of intermediate algebra or higher and is a minimum of three credits. This course must be successfully completed with a C- or better. Individual majors may require specific courses to satisfy this requirement. As a program requirement, the course must be graded A-F, otherwise students may take the course S/U.
4. For the Bachelor of Arts Degree (B.A.): In addition to completing the General Education Distribution Requirements, students are required to demonstrate proficiency in a single foreign language (two years or completion of a second year foreign language course sequence or equivalency). Students graduating from high school in spring 1997 or later.
5. A grade of C- or higher is required in all courses that count toward the general education core. Courses in which “D” grades have been earned will transfer to Eastern, but will not count towards the general education requirements.
6. Career-Technical Coursework: A maximum of 12 career/technical credits, completed with a grade of “C-” or better, will be accepted. These credits will be transcripted in a lump sum as lower division electives with a grade of “S.” They may not be used to meet general education or program requirements. A Transfer Evaluation Report acknowledging the courses accepted by the university will be sent to the student after the admission status has been confirmed. Career/technical coursework in a clearly articulated program agreement between EOU and another institution is exempt from this policy.
7. Up to 12 credit hours in Physical Education Activity and Music Activity courses may be applied toward degree requirements. Music majors may apply a maximum of 120 MUS credits toward graduation.
8. Two years of high school or two terms of college-level foreign language (same language) completed with a C- or better are required for students graduating from high school in spring 1997 or later.
9. This guide is subject to change without notice and should not be regarded as a contract between Eastern and students attending Chemeketa.

Application for financial aid should be mailed between January 1 and February 1 for fall term. Applications will be available in December in the Chemeketa Financial Aid office. Admission applications for EOU are available in Chemeketa Counseling office. Students are encouraged to apply for admission as soon as winter term grades are posted and send a transcript after spring term grades are available. Students applying for financial aid should make application for admission in January.

www.eou.edu  •  541.962.3393
## Oregon Institute of Technology General Education Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>OIT Credit Hours</th>
<th>Chemeketa courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Communication</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fundamentals of Speech</td>
<td>3</td>
<td>COMM111</td>
</tr>
<tr>
<td>English Composition</td>
<td>6</td>
<td>WR121 and 122</td>
</tr>
<tr>
<td>Nine additional credits from speech/writing courses having WR22 or COMM111 as a prerequisite; specified by the major department from the following: COM205, 225, 320, 347, 401, 402, WR123, 214, 227; SPE321, WR1321, 322, 323, 327, 328, 350, 410.</td>
<td>9</td>
<td>BA214; COMM115, 218, 219 (No equivalent Chemeketa courses for WR1321, 322, 323, 327, 328; COM320, 347, 401, 402)</td>
</tr>
</tbody>
</table>

**Humanities**

Nine credits selected by student or specified by a major department from the following: ART—Art; ENGL—Literature; HUM—Humanities; MUS—Music; PHL—Philosophy; Language (second year). Other transfer courses denoted as "Humanities" by the Registrar's Office may be used in this category. No more than three credits of studio-based, activity, or performance-based courses may be used in this category.

<p>| | | |</p>
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</table>

**Social Sciences**

Twelve credits selected by student or specified by major department from the following: ATH—Anthropology; EC—Economics; GEG—Geography; HST—History; PS—Political Science; PSY—Psychology; SOC—Sociology. Other transfer courses defined as “Social Science” by the Registrar’s Office may be used in this category.


**Science/Mathematics**

One four-credit college-level mathematics course for which at least intermediate algebra (MTH095) is a prerequisite.

| | 4 | MTH105, 111, 211, 212, 213 |

Students entering OIT who have earned an Oregon Associate of Arts Transfer degree from Chemeketa will be considered as having met the lower division general education distribution requirements at OIT.

**Notes:**

1. Courses in which “D” grades have been earned will transfer to OIT. Some sequence courses require a “C” grade or better in a prerequisite course in order to continue in the sequence.
2. This guide is subject to change without notice and should not be regarded as a contract between OIT and students attending Chemeketa.
3. Two years of high school or two terms of college-level foreign language (same language) required for all students graduating from high school spring 1997 or later.
4. *These courses transfer as “Human Performance” and OIT will only accept three credits.

Applications for financial aid should be mailed between January 1 and February 1 for fall term to receive priority consideration. Applications will be available December in the Chemeketa Financial Aid office. Students applying for financial aid should apply for admission at the same time. Admission applications for OIT are available in the Chemeketa Counseling office. Students are encouraged to apply for admission as soon as winter term grades are posted, and send a second Chemeketa grade transcript after spring term grades are available.

**www.oit.edu 541.885.1000 or 800.422.2017**

2013–2014 Chemeketa Community College Catalog 57
## Oregon State University General Education Requirements (Core Curriculum)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>OSU Credit hours</th>
<th>Chemeketa courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing I</td>
<td>4</td>
<td>WR121 (must be completed before transferring)</td>
</tr>
<tr>
<td>Writing II</td>
<td>3</td>
<td>BA214; JNL216; WR122, 227, 240, 241, 242, 243, 244, 245, 262</td>
</tr>
<tr>
<td>Writing III/Speech</td>
<td>3</td>
<td>COMM111, 112, 218, 219</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
<td>MTH105 or 111, 112, 211, 241, 251 (must be completed with a grade of “C-” or better before transferring)</td>
</tr>
<tr>
<td>Fitness</td>
<td>3</td>
<td>HPE295</td>
</tr>
<tr>
<td>Writing Intensive Course</td>
<td></td>
<td>(Must be taken at OSU as upper division in the major)</td>
</tr>
<tr>
<td>Biological Science* (Including Lab)</td>
<td>4</td>
<td>BI101, 102, 103, 131, 132, 133, 143, 153, 200, 211, 212, 213, 230, 234</td>
</tr>
<tr>
<td>One additional Physical Science or Biological Science course*</td>
<td>4–5</td>
<td>Any courses listed for Physical or Biological Science above.</td>
</tr>
<tr>
<td>Western Culture*</td>
<td>3</td>
<td>ART204, 205, 206; ENG107, 108, 109, 201, 202, 204, 205, 253, 254, 275; FA255; GEG106, 207; HST104, 105, 106, 201, 202, 203, 228; PH201, 203, REL202, 203</td>
</tr>
<tr>
<td>Cultural Diversity*</td>
<td>3</td>
<td>ATH212, 214, 231; CLA201, 202, 203; ENG257; GEG201, 202; HST104, 105, 106, 157, 257, 258, 207, HUM220, REL140, 201, 202, 203, SCS100</td>
</tr>
<tr>
<td>Literature and the Arts*</td>
<td>3</td>
<td>ART101, 204, 205, 206; ENG104, 105, 106, 107, 108, 109, 201, 202, 204, 205, 250, 253, 254, 256, 257, 258, 260, 269, 275; FA255; MUS111, 161, 201, 202, 203</td>
</tr>
<tr>
<td>Social Processes and Institutions*</td>
<td>3</td>
<td>ATH103; EC201, 202, HE209; PS201, 202, 205, PSY100, 201, 202; SOC200, 205</td>
</tr>
<tr>
<td>Difference, Power and Discrimination*</td>
<td>3</td>
<td>HST201, 202, 203; SOC206, 210, 213</td>
</tr>
<tr>
<td>Global Issues</td>
<td>3</td>
<td>(Upper division course; must be taken at OSU)</td>
</tr>
<tr>
<td>Science, Technology and Society</td>
<td>3</td>
<td>(Upper division course; must be taken at OSU)</td>
</tr>
</tbody>
</table>

*No more than two courses from the same department may be used to fulfill this group of requirements.

Students entering OSU who have earned an Oregon Associate of Arts Transfer degree from Chemeketa will be considered as having met the OSU’s lower division baccalaureate core curriculum requirements.

**Notes:**

1. A maximum of 124 credit hours earned at a community college may be applied toward a baccalaureate degree.
2. Only courses with letter prefixes and numbers above 100 are accepted at OSU. Some career and technical courses numbered 100 or higher are not accepted as transferable courses. Please contact the office of admissions and orientation at OSU regarding specific courses. Career and technical courses include those with prefixes of: AH, AUM, BT, CA, CAM, CJ, CVL, DEN, DRF, ECE, ED, ELM, ENL, ES, FE, FRP, FT, HD, HDF, HEM, HM, HOR, HS, HTM, MED, MFG, MT, NET, NUR, PHM, PLP, RD, SLF, SSL, ST, VC, VMW, WFB, WLD.
3. Students with career and technical credits (including courses numbered 50-99) should contact the assistant registrar at OSU for assistance in determining transferability of these courses to an OSU major.
4. Departments, schools, or colleges at OSU may restrict the courses used by their major students to satisfy each general educational component.
5. OSU will accept “D” grades. Some departments, schools, or colleges may not accept “D” grades in required courses.
6. This guide is subject to change without notice and should not be regarded as a contract between OSU and students attending Chemeketa Community College.
7. Students graduating from high school in 1997 or after must have completed two years of the same high school-level second language or two terms of the same college-level second language, or demonstrated proficiency in a second language, to be admitted to OSU.

Application for financial aid should be mailed between January 1 and February 1 for fall term to receive priority consideration. Applications will be available December in the Chemeketa Financial Aid and Counseling offices.

Admission applications for OSU are available in the Chemeketa Counseling office. Students are encouraged to apply for admission as soon as winter term grades are posted, and send a second Chemeketa grade transcript after spring term grades are available. OSU Admissions application deadline for transfer students is May 1. Students applying for financial aid should apply for admission by March 1 so their financial aid application will be processed.

www.oregonstate.edu 541.737.4411 or 800.291.4192
Portland State University General Education Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>PSU Credit hours</th>
<th>Chemeketa courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman Inquiry</td>
<td>15</td>
<td>Complete 45 credit hours from courses, including WR121 (C- or higher), listed for the Associate of Arts Oregon Transfer (AAOT) degree to waive the freshman general education requirement and enter PSU with Sophomore standing. Courses should include writing, speech, and computer science. It is also important to learn appropriate uses of information technology resources of the library.</td>
</tr>
<tr>
<td>Electives or Major Requirements</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Sophomore Level</td>
<td>12</td>
<td>Complete an additional 45 credit hours from courses listed for the AAOT and courses required for major to waive Sophomore level general education and enter PSU with Junior standing. Students planning on attending Chemeketa for two years should complete AA Oregon Transfer degree.</td>
</tr>
<tr>
<td>Electives or major requirements</td>
<td>33</td>
<td></td>
</tr>
</tbody>
</table>

Students entering PSU who have earned an Associate of Arts Oregon Transfer degree from Chemeketa will be considered as having met the lower division core curriculum requirements.

Notes:
1. Students (resident, non-residents, and international) must have achieved a 2.25 cumulative GPA with 30 transferable credit hours to be considered as a transfer student for admissions purposes.
2. Courses with letter prefixes and numbers below 100 are generally not accepted by PSU.
3. PSU will accept up to 12 credit hours of career and technical education courses as electives.
4. A maximum of 124 credit hours earned at community colleges may be applied toward a baccalaureate degree.
5. This guide is subject to change without notice and should not be regarded as a contract between PSU and students attending Chemeketa Community College.
6. Two years of high school or two terms of college-level foreign language (same language) required for all students graduating from an Oregon high school spring 1997 or later. Students may complete this requirement at PSU prior to graduation.
7. Students planning to earn a BA must show competence of two years of college foreign language studies by either completing two years, of any foreign language 203 or higher, or by passing CLEP or other competency exam.
8. Beginning Fall 2010, students transferring to PSU with 30 or more transfer credits will be required to have completed WR121 with a grade of “C-” or better. Students who have not completed WR121 prior to beginning at PSU will work with the Admissions office to determine options for meeting this requirement.

Applications for financial aid should be mailed between January 1 and February 1 to receive priority consideration for any term in the academic year. Financial aid will not be awarded unless an application for admission is on file. Admission applications for PSU are available in the Chemeketa Counseling office. Students are encouraged to apply for admission as soon as winter term grades are posted and send a second Chemeketa grade transcript after spring term grades are available. Financial aid applicants should apply in January and send a second grade transcript after spring grades are posted.

www.pdx.edu 503.725.3511 or 800.547.8887
## Southern Oregon University  General Education Requirements  (Core Curriculum)

<table>
<thead>
<tr>
<th>SOU requirements</th>
<th>SOU Credit hours</th>
<th>Chemeketa courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing</td>
<td>9</td>
<td>WR121, 122 and COMM111, 218, or 219 (“C-” or better in each course.)</td>
</tr>
</tbody>
</table>

### Mathematics

<table>
<thead>
<tr>
<th>SOU Credit hours</th>
<th>Chemeketa courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>4–5</td>
<td>MTH105, 111, 112, 211+ 212, 241, 243, 244, 245, 251, 252, 253</td>
</tr>
</tbody>
</table>

### Arts and Letters

<table>
<thead>
<tr>
<th>SOU Credit hours</th>
<th>Chemeketa courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>9–12</td>
<td>Complete at least three courses from the following: ART101, 204, 205, 206, 207; ASL211, 212, 213; COMM100, 115, 237; ENG104, 105, 106, 107, 108, 109, 201, 202, 203, 204, 205, 216, 221, 232, 250, 253, 254, 256, 257, 258, 269, 275, FA255, 256, 257; FR201, 202, 203; HUM106; JNL224; JPN201, 202, 203; MUS105, 161, 201, 202, 203; PHL201, 203, 205, 206; REL160, 201, 202, 203; RUS201, 202, 203; SPN201, 202, 203, WR241, 242, 243</td>
</tr>
</tbody>
</table>

### Social Science

<table>
<thead>
<tr>
<th>SOU Credit hours</th>
<th>Chemeketa courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>9–12</td>
<td>Complete at least three courses from the following: ATH101, 103, 180, 212, 214, 215, 231; BA101; CJ100, 101; CLA201, 202, 203; EC200, 201, 202, 203, 206, 207, 220; HE250, HPE295; HST104, 105, 106, 157, 158, 201, 202, 203, 228, 257, 258, 262, 269, 270, 277, 279; PS201, 202, 203, 205; PSY100, 101, 104, 201, 202, 206, 237, 239, 282; SOC204, 205, 206, 210, 213, 221, 232; WS101, 102</td>
</tr>
</tbody>
</table>

### Science

<table>
<thead>
<tr>
<th>SOU Credit hours</th>
<th>Chemeketa courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>11–12</td>
<td>Complete at least three courses from the following. At least 2 courses must have labs: BI100, 101, 102, 103, 131, 132, 133, 143, 171, 172, 200, 211, 212, 213, 230, 231, 232, 233, 234, 251; CH104, 105, 106, 110, 115, 116, 117, 121, 122, 123, 201, 202, 221, 222, 223, 241, 242, 243, 245, 142, 143, 144, 201, 202, 203, 207, 208, 209, 211, 212, 213; GS104, 105, 106, 107, 141, 142, 143; PS111, 121, 122, 201, 202, 203, 207, 208, 209, 211, 212</td>
</tr>
</tbody>
</table>

Non-lab courses:

- GEG105, 190, GS120

Students entering SOU who have earned an Associate of Arts Oregon Transfer degree from Chemeketa will be considered to have met SOU's core curriculum requirements.

### General education notes:

- Must complete 36 transferable credits before transferring. Those who transfer with fewer than 36 credits must meet SOU’s freshman admission requirements. Contact the Academic Support Programs for information and prospective student advising: 541.552.6213.

### Other notes:

1. A maximum of 124 hours taken at community colleges can be transferred to SOU. A total of 180 credits are required for a Bachelor of Arts or Sciences degree.
2. Only courses with a letter prefix and a number of 100 or higher are considered transferable.
3. A maximum of 24 credit hours of career and technical courses are accepted as electives towards the 124 credit transfer limit. SOU will accept AAS degrees (except in Business and Accounting) for the Bachelor’s in Applied Science (BAS) program. Up to 60 career and technical credits may be applied to the BAS program.
4. Courses in which “D-” grades have been earned (except WR and COMM) are accepted by SOU.
5. This guide is subject to change without notice and should not be regarded as a contract between SOU and Chemeketa Community College.
6. Two years of high school or two terms of college-level second language (same language) required for all students graduating from high school Spring 1997 or later.

Admission applications for SOU are available online at www.sou.edu. For fall term admission, students are encouraged to apply for admission as soon as winter term grades are posted, and send a second Chemeketa grade transcript after spring term grades are available. Students applying for financial aid should apply for admission after fall term grades are posted. Students are welcome to apply for admission to SOU for any term.

www.sou.edu 541.552.6411 or 800.482.7672
### General Education Requirements

#### Written English
- **Credits:** 6
- **Courses:** WR121 and WR122 (with a "C-" grade or better); WR121 must be completed before transferring.

#### Arts and Letters*
- **Credits:** 15
- **Courses:** Choose from the following: ART204, 205, 206, 207; ASL211, 212, 213, COMM111, 115, 218; ENG104, 105, 106, 107, 108, 109, 201, 202, 204, 205, 216, 250, 253, 254, 256, 257, 258, 275; FA255, 256, 257; FR201, 202, 203; HUM120, JPN201, 202, 203, MUS201, 202, 203; PHL201, 203, 206; REL160, 202, 203; RUS201, 202, 203; SPN201, 202, 203.

#### Social Science*
- **Credits:** 15
- **Courses:** Choose from the following: ATH102, 103, 180, 212, 214, 215, 231, 252, 233, BA101, CLA201, 262, 203; EC200, 201, 202, 203, GEG104, 107, 201, 202, 206, 207, 220; HST104, 105, 106, 157, 158, 159, 201, 202, 203, 228, 237, 257, 258, 262, 269, 270, 279; JNL224; PS201, 202, 203, 205; PSY202, 206, 237, 239; REL201, 203; SOC204, 205, 206, 210, 213, 221, 232; WS101, 102.

#### Science*
- **Credits:** 15
- **Courses:** Choose from the following: ATH101, BI101, 102, 103, 131, 132, 133, 152, 153, 154, 171, 172, 200, 211, 212, 213, 230, 231, 232, 233, 234, 251; CH104, 105, 106, 110, 115, 116, 117, 121, 122, 123, 201, 202, 221, 222, 223, 241, 242, 243; CS161, 162, 260, 261; EGR214; GEO142, 143, 144; 201, 202, 203; GEG105, 190; GS104, 105, 106, 107, 120, 141, 142, 143; MTH105, 111, 112, 211, 212, 213, 231, 232, 241, 243, 244, 251, 252, 253, OC133; PH212, 212, 220, 201, 202, 203, 207, 208, 209, 211, 212, 213; PSY201.

#### Multicultural Studies
- **Credits:** 3
- **Courses:** 2 courses, at least 3 credits each. Students must complete two courses chosen from two of the following three areas:
  - **Area 1—American Culture (AC):** ATH231, 232, 233, CLA201, 202, 203; ENG257, GEG207, HST257, 258, 259; MUS105, 205, 206; REL100, 150, 151, SOC205, 206.

*No more than three courses from any one department may be used to satisfy the total 45 credit group requirements. Only one course in the major may be used to satisfy group requirements.

Students entering UO who have earned an Associate of Arts Oregon Transfer degree from Chemeketa will have satisfied the university's writing and group requirements. The multicultural requirement is not satisfied by completion of the AAOT unless acceptable courses are taken as part of the AAOT degree.

Students graduating from high school in 1997 or after must have completed two years of a high school-level second language or two terms of a college-level second language, or demonstrate proficiency to be admitted to U of O.

**Notes:**
1. Students who have completed 36 quarter hours of transferable work with a 2.25 GPA may be considered for admission based solely on college work.
2. Only courses with letter prefixes and numbers above 100 are accepted at U of O (see exceptions below).
3. A maximum of 12 credit hours of career and technical courses are accepted as electives.
4. The following course will not be granted credit at U of O: RD115.
5. A maximum of 124 credit hours earned at a community college may be applied toward a baccalaureate degree.
6. A BA degree requires equivalent of two years of college foreign language. Students who have not earned an Associate of Arts-Oregon Transfer (AAOT) degree cannot use the same foreign language courses to meet both the Arts and Letters and BA requirement.
7. A BS degree requires MTH111, 211, 212, 213; or one of the following options: MTH105, 111, 243; or MTH111 and two of MTH112, 241, or 243; or one course from: MTH251, 252, 253, 254, 255, or 256. All courses must be completed with a grade of "C-" or higher. Students who have not earned an Associate of Arts-Oregon Transfer (AAOT) degree cannot use the same courses to meet the BS degree Math/Computer course proficiency requirement and the Science requirement.
8. Courses in which "D" grades have been earned will transfer to U of O, but will not satisfy degree requirements in writing, mathematics, or foreign language, and may not be acceptable for major requirements.
9. Students must complete WR121 and MTH105 or 111 with a "C-" or better before transferring; may request waiver of math requirement for admissions.
10. This guide is subject to change without notice and should not be regarded as a contract between U of O and students attending Chemeketa Community College.

### Basic Courses Required for Bachelor of Architecture, Landscape Architecture, Interior Architecture, Music or Education

Students in Architecture, Landscape Architecture and Interior Architecture, as well as students seeking Bachelor of Education or Bachelor of Music, must meet the following requirements:

**Institutional Requirement Required Hours/Courses Chemeketa Courses That Satisfy Requirements**

1. **Written English**
   - **Credits:** 6
   - **Courses:** WR121 & WR122 (with a grade of "C-" or better)

2. **Twelve credits in approved group satisfying courses in three of the following areas:**
   - Arts and Letters, Social Sciences, and Sciences.

3. **All students must have:** At least two courses from one subject, and in all three groups there must be courses from two different subjects.

4. **No more than three courses from any one subject may be counted toward the total 36 credit requirement.**

**Application for financial aid should be mailed between January 1 and February 1 for fall term to receive priority consideration. Applications will be available in December in Chemeketa Financial Aid Office.**

Admission applications for U of O are available in the Chemeketa Counseling Office. Fall term admission application deadline for transfer students is May 15; priority deadline is March 15. Students applying for Financial Aid should make application for admission in January. Financial Aid applications are not processed at the U of O unless an application for admission is on file.

www.uoregon.edu 541.346.3243 or 800.232.3825

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Western Oregon University

General Education Requirements (Core Curriculum)

<table>
<thead>
<tr>
<th>Requirements</th>
<th>WOU Credit hours</th>
<th>Chemeketa courses which satisfy requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition (WR135)</td>
<td>4</td>
<td>WR122 (Must be passed with a C- or better.)</td>
</tr>
<tr>
<td>Communication Studies</td>
<td>3</td>
<td>COMM111</td>
</tr>
<tr>
<td>Health and Physical Education</td>
<td>4</td>
<td>Activity courses selected from PE185 and HPE295, 296. Classes should include different activities. (Prefer HPE295 and a one-hour activity class.)</td>
</tr>
<tr>
<td>Creative Arts (Art, Dance, Music, Theater Arts)</td>
<td>9</td>
<td>Choose from ART101, 115, 116, 117, 131, 204, 205, 206, MUS105, 111, 112, 113, 161, 197, 201, 202, 203. In addition, dance courses at WOU meet requirement. **A maximum of three hours of music performance courses is allowed. Prefer nine hours in a combination of three different areas.</td>
</tr>
<tr>
<td>Humanities (Literature, Modern Language*, Philosophy or Religion)</td>
<td>12</td>
<td>A sequence of at least six hours in literature* is required and one philosophy or religion course. Choose literature courses from ENG104, 105, 106, 107, 108, 109, 201, 202, 204, 205, 221, 232, 253, 256, 257, 258, 260, 261, 269, 275, and one philosophy or religion course: PHL201, 203, 205, 206 or REL201, 202, 203</td>
</tr>
<tr>
<td>Laboratory Science</td>
<td>12</td>
<td>At least eight hours in the same discipline is required. Choose lab science courses from BI101, 102, 103, 153, 211, 212, 213, CH104, 105, 106, 110, 121, 122, 123, 221, 222, 223, GEO142, 143, 144, 201, 202, 203, GS104, 105, 106, 107, 141, 142, 143, PH121, 122, 201, 202, 203, 207, 208, 209, 211, 212, 213. Early Childhood/Elementary/Middle level education majors should take BI101, GS104, and 106.</td>
</tr>
<tr>
<td>Social Science</td>
<td>11–12</td>
<td>A sequence of at least eight hours in the same discipline is required. Choose ATH101, 102, 103, 180; GEG105, 106, 107; HST104, 105, 106, 201, 202, 203, 270; PS201, 202, 203, 205, SOC204, 206, 210; EC200, 201, 202, 203. The remaining three hours may be in any social science area, including psychology and criminal justice.</td>
</tr>
</tbody>
</table>

Degree Requirements

| Bachelor of Arts (B.A.)                      | 4                | (1) MTH105 or higher math. (Early Childhood/Elementary/Middle level education majors should take MTH211, 212, 213 Foundation of Elementary Mathematics) and |
| or                                           |                  | (2) CIS101; and |
|                                              | 4                | (3) Third term of a second-year foreign language |
| Bachelor of Science (B.S)                    | 12               | (1) A combined total of 12 credit hours in Mathematics, Computer Science, and/or designated Quantitative Literacy courses. A minimum of one math course (at the level of MTH111 or above) and one Computer Science course is required. Early Childhood/Elementary/Middle School Education majors should take MTH211, 212, 213 |

Students entering WOU who have earned an Associate of Arts Oregon Transfer degree from Chemeketa will be considered as having met Wouren's core curriculum requirements but not the degree requirements.

Students transferring without the AAOT degree must have completed 36 transferable credits. Students who graduated from high school spring 1997 or later must have completed two years of high school foreign language (same language) or two terms of college-level foreign language to be admitted to WOU. Contact the Admissions Office for further information.

*Note: Students may substitute one term of a foreign language for one literature course in the core curriculum.

**PE185JA,B,C–Dance, Jazz; PE185DJ,K,L–Dance, Modern Notes:

1. A maximum of 124 hours taken at a community college can be transferred to WOU.
2. In general, only courses at the baccalaureate level with a letter prefix and a number of 100 or higher are considered transferable.
3. Up to 24 hours of career/technical credits can be transferred as free electives.
4. Courses in which “D” grades have been earned are accepted by WOU but may not be allowed in the major or minor. Writing courses used to satisfy WR135 must be passed with a C- or better.
5. Students who have not completed all of the core curriculum requirements (or AAOT) at the time they transfer will be expected to complete them with courses among those specifically required of freshman beginning their work at WOU.
6. Courses numbered 199, 299, and 280 (CWE) transfer to Western Oregon as unrestricted elective credit, and are not applied to the major/minor or Core Curriculum requirements. Up to 12 hours of CWE (College Work Experience) can be accepted.
7. Criminal Justice, Business, Health, Psychology, Education, American Sign Language, and Fire Services Administration programs require completion of prerequisite curricula and an additional application to the specific program.
8. This guide is subject to change without notice and should not be regarded as a contract between Western Oregon University and students attending Chemeketa Community College.

Application for financial aid should be mailed between January 1 and February 1 for fall term to receive priority consideration. Applications will be available December in the Chemeketa Financial Aid office.

Admission applications for WOU are available in the Chemeketa Counseling office. Students are encouraged to apply for admission during winter term, and send a second Chemeketa grade transcript after spring term grades are available. Early applications are encouraged. Students applying for financial aid should apply for admission in January.

www.wou.edu 877.838.8211 or 877.877.1593
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.

### Fastest Growing Occupations in the United States

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Program or Information</th>
<th>Page or Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Software Engineer, Applications</td>
<td>See Computer Science (Transfer)</td>
<td>page 87</td>
</tr>
<tr>
<td>Computer Support Specialist</td>
<td>See Computer Systems and Information Technology</td>
<td>page 85</td>
</tr>
<tr>
<td>Computer Software Engineer, Systems</td>
<td>See Computer Science (Transfer)</td>
<td>page 86</td>
</tr>
<tr>
<td>Desktop Publisher</td>
<td>See Visual Communications</td>
<td>page 138</td>
</tr>
<tr>
<td>Database Administrator</td>
<td>See Computer Systems and Information Technology</td>
<td>page 86</td>
</tr>
<tr>
<td>Computer Systems Analyst</td>
<td>See Computer Systems and Information Technology</td>
<td>page 85</td>
</tr>
<tr>
<td>Social and Human Service Assistant</td>
<td>See Human Services Program</td>
<td>page 117</td>
</tr>
<tr>
<td>Physician Assistant</td>
<td>See Associate of Arts Oregon Transfer/Biology Major</td>
<td>page 51</td>
</tr>
<tr>
<td>Medical Records and Health Information</td>
<td>See Health Information Management Program</td>
<td>page 111</td>
</tr>
<tr>
<td>Technician</td>
<td>See Computer Systems and Information Technology</td>
<td>page 86</td>
</tr>
<tr>
<td>Computer and Information Systems Manager</td>
<td>See Computer Systems and Information Technology</td>
<td>page 51</td>
</tr>
<tr>
<td>Physical Therapist</td>
<td>See Associate of Arts Oregon Transfer</td>
<td>page 51</td>
</tr>
<tr>
<td>Occupational Therapist</td>
<td>See Associate of Arts Oregon Transfer</td>
<td>page 51</td>
</tr>
<tr>
<td>Physical Therapist Assistant</td>
<td>Contact Mt. Hood Community College</td>
<td>503.491.4765</td>
</tr>
<tr>
<td>Audiologist</td>
<td>See Associate of Arts Oregon Transfer/Speech Major</td>
<td>page 51</td>
</tr>
<tr>
<td>Fitness Trainers and Aerobics Instructor</td>
<td>See Physical Education</td>
<td>page 111</td>
</tr>
</tbody>
</table>

Source: U.S. Department of Labor Statistics

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 them 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>General Office Clerk</td>
<td>Patricia Sessions</td>
<td>503.399.6094</td>
<td>See Business Technology Certificate, page 75</td>
</tr>
<tr>
<td>Clerical Supervisor</td>
<td>Patricia Sessions</td>
<td>503.399.6094</td>
<td>See Administrative Assistant Options, page 78</td>
</tr>
<tr>
<td>Hospitality Management</td>
<td>Eric Aabi</td>
<td>503.589.7994</td>
<td>See Hospitality Management, page 115</td>
</tr>
<tr>
<td>Gardeners/Groundskeeper</td>
<td>Gail Greider</td>
<td>503.365.4692</td>
<td>Horticulture, page 114</td>
</tr>
<tr>
<td>Registered Nurse</td>
<td>Kay Carnegie</td>
<td>503.399.5058</td>
<td>See Nursing, page 129</td>
</tr>
<tr>
<td>Receptionists/Information Clerk</td>
<td>Patricia Sessions</td>
<td>503.399.6094</td>
<td>See Office Fundamentals, page 76</td>
</tr>
<tr>
<td>Computer Support Specialist</td>
<td>Mandy Reininger</td>
<td>503.365.4822</td>
<td>See Computer Systems and Information Technology, see page 86</td>
</tr>
</tbody>
</table>
Career Choices and Programs of Study
Accounting Programs

go.chemeketa.edu/accounting

See also Business Administration and Management.

Are you interested in becoming a bookkeeper, accountant, or tax preparer? The accounting program offers you the training to qualify for entry-level positions requiring accounting in business, industry, and government agencies.

The program includes a core of accounting, business, and general education courses and emphasizes acquiring specialized business knowledge. You may select individual courses to meet your needs, or you may work toward an Associate of Applied Science degree. The Accounting AAS 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.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes

Students completing the certificates will:

- 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 AAS will:

- 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
- 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

Getting started

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 Counseling Services staff. You may need to complete pre-program courses. Then, your advisor will help you develop an individualized program of study, which may include one or more of the following:

- BA115 Introduction to Accounting
  (if less than RD090 and MTH060) 4
- CIS101 Introduction to Microcomputer Applications 3
- MTH070 Elementary Algebra 4
- RD090 College Textbook Reading 3
- WR115 Introduction to Composition 4

If you have questions about the requirements, call Chemeketa’s Advising and Counseling Services at 503.399.5120 or 503.399.5114. Failure to be assessed may delay your entry into program classes.

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. 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

Accounting Certificate of Completion

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 program 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.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,063; class fees, $82; and universal fee, $560. 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 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>
</tr>
</thead>
<tbody>
<tr>
<td>BA101</td>
<td>Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td>BA211</td>
<td>Financial Accounting 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS125E</td>
<td>Excel-Workbooks</td>
<td>4</td>
</tr>
<tr>
<td>BA225</td>
<td>Excel for Accounting</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition</td>
<td>4</td>
</tr>
<tr>
<td>BT210</td>
<td>Professional Communication Skills</td>
<td>4</td>
</tr>
</tbody>
</table>
Accounting

Tax Preparation Certificate of Completion
The Tax Preparation Certificate is designed for students interested in the field of tax preparation or as an additional credential for accountants. The program provides the foundation necessary to prepare individual income taxes, aid in preparation of partnership and corporation returns, and effectively design accounting systems to integrate smoothly with tax schedule preparation. In addition, this certificate provides the necessary 80 hours of course work required in order to take the State of Oregon Licensed Tax Preparer test.

*In addition to tuition, estimated costs for students who complete the entire program listed below are books, $422; class fees, $25; and universal fee, $224. 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 16 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 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA177</td>
<td>Payroll</td>
<td>4</td>
</tr>
<tr>
<td>BA256</td>
<td>Income Tax 1</td>
<td>4</td>
</tr>
<tr>
<td>Term 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA257</td>
<td>Income Tax 2</td>
<td>4</td>
</tr>
</tbody>
</table>

Accounting Associate of Applied Science

*In addition to tuition, estimated costs for students who complete the entire program listed below are books, $2,200; class fees, $464; universal fee, $1,330; 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 95 credit hours with a grade of "C" or better in all Business Administration (BA) 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>
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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>BA211</td>
<td>Financial Accounting 1</td>
<td>4</td>
</tr>
<tr>
<td>SSP125</td>
<td>Learning Strategies for Online Students</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition</td>
<td>4</td>
</tr>
<tr>
<td>BT210</td>
<td>Professional Communication Skills</td>
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Term 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA177</td>
<td>Payroll</td>
<td>4</td>
</tr>
<tr>
<td>BA212</td>
<td>Financial Accounting 2</td>
<td>4</td>
</tr>
<tr>
<td>BA214</td>
<td>Business Communications+</td>
<td>3</td>
</tr>
<tr>
<td>BA225</td>
<td>Excel for Accounting</td>
<td>4</td>
</tr>
<tr>
<td>CIS125E</td>
<td>Excel-Workbooks</td>
<td>4</td>
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</tbody>
</table>

Term 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA213</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BA226</td>
<td>Business Law 1</td>
<td>4</td>
</tr>
<tr>
<td>BA228</td>
<td>Computer Accounting Applications</td>
<td>4</td>
</tr>
<tr>
<td>BA240</td>
<td>Governmental/Non-Profit Accounting 1*</td>
<td>4</td>
</tr>
<tr>
<td>BA215</td>
<td>Cost Accounting</td>
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</tr>
</tbody>
</table>

Term 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA266</td>
<td>Intermediate Financial Accounting 1</td>
<td>4</td>
</tr>
<tr>
<td>MTH095</td>
<td>Intermediate Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Business or Economics 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>BA237</td>
<td>Financial Records Management</td>
<td>4</td>
</tr>
<tr>
<td>BA206</td>
<td>Business Management Principles</td>
<td>4</td>
</tr>
<tr>
<td>BA256</td>
<td>Income Tax 1</td>
<td>4</td>
</tr>
<tr>
<td>BA267</td>
<td>Intermediate Financial Accounting 2</td>
<td>4</td>
</tr>
<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking (or higher: COMM130 recommended)</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>BA218</td>
<td>Personal Finance</td>
<td>4</td>
</tr>
<tr>
<td>BA222</td>
<td>Financial Management</td>
<td>4</td>
</tr>
<tr>
<td>BA257</td>
<td>Income Tax 2</td>
<td>4</td>
</tr>
<tr>
<td>BA268</td>
<td>Intermediate Financial Accounting 3</td>
<td>4</td>
</tr>
<tr>
<td>BA280C</td>
<td>Cooperative Work Experience</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Business elective **</td>
<td>3</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

**If you are interested in working for a government agency, you are strongly urged to consider BA240. 
**Business or Economics elective**: Choose BA courses at the 200 level or above, you are strongly urged to consider BA230, BA259, or BA265; or EC200 or above.


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

Agriculture

(transfer course guideline)

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 Counseling Services or a Chemeketa advisor. Also, you should make early contact with an advisor at OSU to learn of any possible changes in an academic area.
Anthropology
(transfer course guideline)

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 to transfer. Consult with Chemeketa’s Advising and Counseling Services or a Chemeketa 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.

Apprenticeship Programs

go.chemeketa.edu/apprenticeship

Apprenticeship training as a method of vocational education is recognized by the Apprenticeship and Training Division (ATD) of the Oregon Bureau of Labor and Industries (BOLI). It combines full-time, on-the-job learning (OJL) with committee approved contractors and trade related instruction taken in conjunction with each other.

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. Each program requires four years of OJL and related instruction. Electricians, HVAC/R technicians, and plumbers require state licensure at the conclusion of their training.

Chemeketa’s Apprenticeship programs offer a Certificate of Completion and an Associate of Applied Science degree in Electrician Technologies Apprenticeship for Inside Wire Electricians, and a Certificate of Completion and an Associate of Applied Science degree in Construction Trades General Technologies AAS, Inside Wire Electrician specialization will:

- Apply theory to electrical wiring
- Repair and install electrical wire devices according to licensure regulations to meet NEC and OESC standards for Inside Electrician
- Complete three general education courses: one each in communications, computation and human relations

Students completing the Electrician Apprenticeship Technologies Certificate, Inside Wire Electrician specialization will:

- Complete three general education courses: one each in communications, computation and human relations

Students Transferring Into the Apprenticeship Programs

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.

Students completing the Electrician Apprenticeship Technologies Certificate, Inside Wire Electrician specialization will:

- Apply theory to electrical wiring
- Repair and install electrical wire devices according to licensure regulations to meet NEC and OESC standards for Inside Electrician
- Complete three general education courses: one each in communications, computation and human relations

Students completing the Construction Trades General Apprenticeship Certificate, HVAC/R Specialization will:

- 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: one each in communications, computation and human relations

Students completing the Construction Trades General Apprenticeship Certificate, Plumbers Specialization will:

- 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: one each in communications, computation and human relations

Students completing the Construction Trades General Apprenticeship Certificate, Sheet Metal Specialization will:

- Complete a minimum of 8000 hours of State of Oregon-approved on-the-job training
- 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: one each in communications, computation and human relations

Students completing the Construction Trades General Apprenticeship AAS, HVAC/R Specialization will:

- 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

Students completing the Construction Trades General Apprenticeship AAS, Plumbers Specialization will:

- Repair, install, and maintain a variety of building construction projects using trade-specific tools and techniques in compliance with building codes and OSHA regulations

Students completing the Construction Trades General Apprenticeship AAS, Sheet Metal Specialization will:

- Repair, install, and maintain a variety of building construction projects using trade-specific tools and techniques in compliance with building codes and OSHA regulations
Students completing the Construction Trades General Apprenticeship AAS, Sheet Metal Specialization will:

• Complete general education courses

Construction Trades General Apprenticeship AAS, Sheet Metal Specialization requirements:

• Complete a minimum of 8000 hours of State of Oregon-approved on-the-job training
• 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 general education courses

Getting started

The requirements for each apprenticeship certificate and degree program are listed below.

Electrician Apprenticeship entry requirements:

• Minimum of 18 years old
• High School Diploma or GED
• One year of high school algebra with grade “C” or higher or
• Completion of MTH060 and MTH070 at Chemeketa or
• Test placement into MTH070 or higher

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
• Compile a minimum of 90 approved credits; 22 credits may be awarded for proof of journey-level status

HVAC/R Apprenticeship entry requirements:

• Minimum of 18 years old
• High School Diploma or GED
• One year of high school algebra with grade “C” or higher or
• Completion of MTH060 or MTH070 at Chemeketa

Construction Trades General Apprenticeship AAS, 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
• Compile a minimum of 90 approved credits; 22 credits may be awarded for proof of journey-level status

Plumber Apprenticeship entry requirements:

• Minimum of 18 years old
• High School Diploma or GED

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
• Compile a minimum of 90 approved credits; 22 credits may be awarded for proof of journey-level status

Sheet Metal Apprenticeship entry requirements:

• Minimum of 18 years old
• High School Diploma or GED
• One year of high school algebra with grade “C” or higher or

Electrician Apprenticeship Technologies

Certificate of Completion

In addition to tuition, estimated costs for students who complete the entire four-year program listed below are program fees, $448; universal fee, $896. 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 64 credit hours.

General Education requirements (12 credit hours)

Course Title Credit Hours
MTH095 Intermediate Algebra+ (or higher) ......................... 4
PSY101 Psychology of Human Relations+ (or higher) ........ 4
WR121 English Composition-Exposition+ (or higher) .......... 4

Apprenticeship Related Training-Electrical (52 credit hours)

Course Title Credit Hours
APR153A Electrician Apprenticeship Fundamentals .............. 5
APR153B Electrician Apprenticeship AC/DC Circuits .......... 5
APR153C Electrician Apprenticeship Measurements .......... 5
APR153D Electrician Apprenticeship Theory .................. 5
APR153E Electrician Apprenticeship Wiring and Print Reading ................................................. 5
APR153F Electrician Apprenticeship Residential Installation 5
APR253G Electrician Apprenticeship Safety and Code ........ 5
APR253H Electrician Apprenticeship Motor and Controls .... 5
APR253I Electrician Apprenticeship Fiber Optics .......... 3
APR253J Electrician Apprenticeship Math/Test Equipment . 5
APR253K Electrician Apprenticeship Voltage .................. 5
APR253L Electrician Apprenticeship Code and Exam Prep . 3
+Meets related instruction requirement, see page 44. For subject areas, see page 53.

Electrician Apprenticeship Technologies

Associate of Applied Science

In addition to tuition, estimated costs for students who complete the entire four-year program listed below are program fees, $448; universal fee, $1,050. 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 (75 hours of coursework listed below, plus 22 hours for proof of journey-level status).
Construction Trades, General Apprenticeship

Construction Trades, General Apprenticeship, Certificate of Completion

You 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 listed below.

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>WR121</td>
<td>English Composition-Exposition+ (or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

HVAC/R Specialization

In addition to tuition, estimated costs for students who complete the entire four-year program listed below are program fees, $480; universal fee, $1,008. 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 72 credit hours (12 hours of general education credits listed above plus 60 hours of HVAC/R trade-related coursework listed below).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>APR155A</td>
<td>HVAC/R Apprenticeship Fundamentals ..........</td>
<td>5</td>
</tr>
<tr>
<td>APR155B</td>
<td>HVAC/R Apprenticeship Soldering and Brazing</td>
<td>5</td>
</tr>
<tr>
<td>APR155C</td>
<td>HVAC/R Apprenticeship Introduction to Code</td>
<td>5</td>
</tr>
<tr>
<td>APR155D</td>
<td>HVAC/R Apprenticeship Trade Math ..........</td>
<td>5</td>
</tr>
<tr>
<td>APR155E</td>
<td>HVAC/R Apprenticeship Refrigeration</td>
<td>5</td>
</tr>
<tr>
<td>APR155F</td>
<td>HVAC/R Apprenticeship Electricity and Magnetism</td>
<td>5</td>
</tr>
<tr>
<td>APR255G</td>
<td>HVAC/R Apprenticeship Fuels ................</td>
<td>5</td>
</tr>
<tr>
<td>APR255H</td>
<td>HVAC/R Apprenticeship Residential</td>
<td>5</td>
</tr>
<tr>
<td>APR255I</td>
<td>HVAC/R Apprenticeship Electrical</td>
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</tr>
<tr>
<td>APR255J</td>
<td>HVAC/R Apprenticeship Refrigertion</td>
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<tr>
<td>APR255K</td>
<td>HVAC/R Apprenticeship Refrigeration</td>
<td>5</td>
</tr>
<tr>
<td>APR255L</td>
<td>HVAC/R Apprenticeship Equipment Room and Layout</td>
<td>5</td>
</tr>
</tbody>
</table>

Plumbing Specialization

In addition to tuition, estimated costs for students who complete the entire four-year program listed below are program fees, $448; universal fee, $896. 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 64 credit hours (12 hours of general education credits listed above plus 52 hours of plumbing trade-related coursework listed below).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>APR158A</td>
<td>Plumber Apprenticeship Fundamentals ........</td>
<td>5</td>
</tr>
<tr>
<td>APR158B</td>
<td>Plumber Apprenticeship Math and Print Reading</td>
<td>5</td>
</tr>
<tr>
<td>APR158C</td>
<td>Plumber Apprenticeship Pipe Sizing ..........</td>
<td>3</td>
</tr>
<tr>
<td>APR158D</td>
<td>Plumber Apprenticeship Basic Installation</td>
<td>5</td>
</tr>
<tr>
<td>APR158E</td>
<td>Plumber Apprenticeship Occupancy ..........</td>
<td>5</td>
</tr>
<tr>
<td>APR158F</td>
<td>Plumber Apprenticeship Advanced Wastewater Systems</td>
<td>5</td>
</tr>
<tr>
<td>APR258G</td>
<td>Plumber Apprenticeship Residential Installation</td>
<td>5</td>
</tr>
<tr>
<td>APR258H</td>
<td>Plumber Apprenticeship Commercial Installation</td>
<td>5</td>
</tr>
<tr>
<td>APR258I</td>
<td>Plumber Apprenticeship Code ................</td>
<td>3</td>
</tr>
<tr>
<td>APR258J</td>
<td>Plumber Apprenticeship Industrial Installation</td>
<td>5</td>
</tr>
<tr>
<td>APR258K</td>
<td>Plumber Apprenticeship Basic Wastewater Systems</td>
<td>5</td>
</tr>
<tr>
<td>APR258L</td>
<td>Plumber Apprenticeship Code and Test Preparation</td>
<td>3</td>
</tr>
</tbody>
</table>

Sheet Metal Specialization

In addition to tuition, estimated costs for students who complete the entire four-year program listed below are program fees, $480; universal fee, $1,008. 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 71 credit hours (12 hours of general education credits listed above plus 59 hours of sheet metal trade-related coursework listed below).
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>APR166A</td>
<td>Sheet Metal Apprenticeship Fundamentals</td>
<td>5</td>
</tr>
<tr>
<td>APR166B</td>
<td>Sheet Metal Apprenticeship Fundamentals of Drawings</td>
<td>5</td>
</tr>
<tr>
<td>APR166C</td>
<td>Sheet Metal Apprenticeship Fundamentals of Layout</td>
<td>5</td>
</tr>
<tr>
<td>APR166D</td>
<td>Sheet Metal Apprenticeship Basic Installation</td>
<td>5</td>
</tr>
<tr>
<td>APR166E</td>
<td>Sheet Metal Apprenticeship Architectural Systems</td>
<td>5</td>
</tr>
<tr>
<td>APR266F</td>
<td>Sheet Metal Apprenticeship Applied Math</td>
<td>5</td>
</tr>
<tr>
<td>APR266G</td>
<td>Sheet Metal Apprenticeship Triangulation and Fiberglass</td>
<td>5</td>
</tr>
<tr>
<td>APR266H</td>
<td>Sheet Metal Apprenticeship Calculator Layout</td>
<td>5</td>
</tr>
<tr>
<td>APR266I</td>
<td>Sheet Metal Apprenticeship Radial Line Development</td>
<td>5</td>
</tr>
<tr>
<td>APR266J</td>
<td>Sheet Metal Apprenticeship Duct Sizing</td>
<td>5</td>
</tr>
<tr>
<td>APR266K</td>
<td>Sheet Metal Apprenticeship Job Site Management</td>
<td>5</td>
</tr>
<tr>
<td>WLD077</td>
<td>Welding Processes</td>
<td>4</td>
</tr>
</tbody>
</table>

**Construction Trades, General Apprenticeship, Associate of Applied Science**

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 listed below, 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>Introduction to Microcomputer Apps</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 Relation+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WRT121</td>
<td>English Composition-Exposition+ (or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>

*+Meets related instruction requirement, see page 44. For subject areas, see page 53.*

**Plus:** Choose one area of specialization

**HVAC/R Specialization**

*In addition to tuition, estimated costs for students who complete the entire four-year program listed below are program fees, $480; universal fee, $1,162. 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 (23 hours of general education credits listed above and 60 hours of HVAC/R coursework listed below, plus 22 hours for proof of journey-level status).

**Plumbing Specialization**

*In addition to tuition, estimated costs for students who complete the entire four-year program listed below are program fees, $448; universal fee, $1,050. 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 (23 hours of general education credits listed above and 52 hours of plumbing coursework listed below, plus 22 hours for proof of journey-level status).

**Sheet Metal Specialization**

*In addition to tuition, estimated costs for students who complete the entire four-year program listed below are program fees, $480; universal fee, $1,162. 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 104 credit hours (23 hours of general education credits listed above and 59 hours of sheet metal coursework listed below, plus 22 hours for proof of journey-level status).
Art (transfer course guideline)

See also Visual Communications Programs.

go.chemeketa.edu/art

The art course offerings at Chemeketa present strong foundational skills in a variety of areas, including visual literacy, technique, critical thinking, and artistic expression. 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 50 and 51 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, Oregon State University, Portland State University, Southern Oregon University, University of Oregon, and Western Oregon University. Western has majors in Art and Visual Communications. PSU has majors in Art History, Art Practices, and Graphic Design. OSU has majors in Art, 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 (BFA) degree is offered at OSU, SOU, and U of O.

We strongly recommend developing a term-by-term plan of study. Consult with Chemeketa’s Advising and Counseling Services or a Chemeketa advisor. Questions regarding Chemeketa’s art offerings may be directed to the Humanities and Communications Office at 503.399.2531, or contact Program Chair Laura Mack at laura.mack@chemeketa.edu.

Automotive Technology Programs

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 certificate programs have been designed to be completed in one year and the degree program in two years, and they offer training for auto body repair and auto machine shop, including courses in auto heating and air conditioning, welding, general education courses, 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.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes

Students completing the Automotive Body Repair certificate will:

• 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 will:

• 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 will:
• 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

Students completing the AAS will:
• Perform tasks related to brakes, electrical/electronic systems, engine performance and repair, suspension and steering, automatic transmissions and transaxles, heating and air conditioning systems, and manual drive train and axles
• Analyze, diagnose, and repair automotive components and systems in the Automotive Service Excellence areas
• Identify and use appropriate tools and testing and measuring equipment required to perform automotive service
• Comply with 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 AAS degree and the Auto Body Repair and Automotive Machining certificate programs have 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 Counseling Services staff, 503.399.5120. There are entry-level expectations for skill levels in reading, writing, and mathematics. Your advisor will help you develop an individualized program of study, which may include one or more of the following:

MTH020  Basic Mathematics........................................... 4
RD090  College Textbook Reading................................. 3
WR080  Basic Writing...................................................... 4

If you have questions about the requirements, contact Advising and Counseling Services at 503.399.5120 or 503.399.5210. 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 in Advising and Counseling Services, Admissions, and the Automotive program staff office in Building 4, Room 292. Enrollment in these programs 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 Advising and Counseling Services at 503.399.5120, or the Automotive Technology program chair at 503.399.6521 for details if you are considering the Automotive Technology degree, or Auto Body Repair, Automotive Machining, or Automotive Entry Level Certificate programs. 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 Technology

Automotive Body Repair Certificate of Completion

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $305; class fees, $162; universal fee, $686; equipment and supplies, $1,800. 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 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>WR060</td>
<td>Introduction to Technical Writing 1+</td>
<td>3</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>CIS101</td>
<td>Introduction to Microcomputer Applications (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>MTH052</td>
<td>Introduction to Algebra and Geometry+ (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>PSY101</td>
<td>Psychology of Human Relations+ (or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>

The Automotive AAS degree and the Auto Body Repair and Automotive Machining certificate programs have 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 Counseling Services staff, 503.399.5120. There are entry-level expectations for skill levels in reading, writing, and mathematics. Your advisor will help advise you develop an individualized program of study, which may include one or more of the following:

MTH020  Basic Mathematics........................................... 4
RD090  College Textbook Reading................................. 3
WR080  Basic Writing...................................................... 4

If you have questions about the requirements, contact Advising and Counseling Services at 503.399.5120 or 503.399.5210. 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 in Advising and Counseling Services, Admissions, and the Automotive program staff office in Building 4, Room 292. Enrollment in these programs 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 Advising and Counseling Services at 503.399.5120, or the Automotive Technology program chair at 503.399.6521 for details if you are considering the Automotive Technology degree, or Auto Body Repair, Automotive Machining, or Automotive Entry Level Certificate programs. 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 Technology

Automotive Entry Level Technician Certificate of Completion

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 program 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 program.)

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $352; class fees, $98; universal fee, $392. 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 the AUM courses.

General Education requirements (10 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH052</td>
<td>Introduction to Algebra and Geometry</td>
<td>3</td>
</tr>
<tr>
<td>PSY101</td>
<td>Psychology of Human Relations</td>
<td>4</td>
</tr>
<tr>
<td>WR060</td>
<td>Introduction to Technical Writing</td>
<td>3</td>
</tr>
</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</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>

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $290; class fees, $240; universal fee, $812; equipment and supplies, $1,800. 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 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>Introduction to Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>MTH052</td>
<td>Introduction to Algebra and Geometry+</td>
<td>3</td>
</tr>
<tr>
<td>PSY101</td>
<td>Psychology of Human Relations+</td>
<td>4</td>
</tr>
<tr>
<td>WR060</td>
<td>Introduction to Technical Writing+</td>
<td>3</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+</td>
<td>4</td>
</tr>
</tbody>
</table>

Automotive Machining core requirements (44 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>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</td>
<td>3</td>
</tr>
<tr>
<td>AUM189</td>
<td>Auto Machine Shop-Lower</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>WLD077</td>
<td>Welding Processes</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

Automotive Technology

Automotive Machining Certificate of Completion

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

(transfer course guideline)

See also Accounting, and Management. (Includes Accounting, Finance, International Business, Marketing and Management)

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 Counseling Services or a Chemeketa 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.

Business Technology Programs

bt.chemeketa.edu

Chemeketa offers short-term and one-year certificates and two-year degree programs in Business Technology for those who wish to pursue a career in a business office environment.

The Office Fundamentals certificate is offered for people who want to develop or refresh their clerical skills in order to qualify for entry-level office work. 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 Virtual Office Assistant certificate 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 you as an entry-level office support specialist. You may earn any of the Certificates of Completion by successfully completing the credit hours required.

The two-year program is designed for those who want to become administrative assistants, secretaries, office assistants, and support specialists. There are four two-year programs: Administrative Office Professional, Accounting Administrative Assistant, Medical Administrative Assistant, and Virtual Office Assistant. You may earn an Associate of Applied Science degree by successfully completing the credit hours required for each program.

Total required credit may vary due to the college’s recent three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program Outcomes

Students completing the Office Fundamentals Certificate will:
- Accurately produce and proofread business documents
- Follow professional business procedures and standards
- Store, locate, and retrieve information to support office personnel

Students completing the Business Software Certificate will:
- Utilize a wide range of software knowledge in a variety of settings

Biology, Botany, General Science

(transfer course guideline)

Oregon state colleges and universities offering Bachelor of Arts and/or Bachelor of Science degrees in Biology 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 Counseling Services or a Chemeketa 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.
• Integrate computer, computation, and communication skills to accomplish personal and professional tasks

Students completing the Virtual Office Assistant Certificate will:
• 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
• 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 Business Technology Certificate will:
• Compose and accurately produce and proofread 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 personnel
• Integrate computer, computation, and communication skills to accomplish office tasks

Students completing the Accounting Administrative Assistant AAS will:
• Compose, proofread, and produce 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
• Apply knowledge of the internal organization and management of an office
• Work both independently and as part of a team

Students completing the Medical Administrative Assistant AAS will:
• 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

Students completing the Virtual Office Assistant AAS will:
• 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
• 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

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

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. The second step is to obtain your scores from the Advising and Counseling Services staff. Next, see a Business Technology (BT) faculty advisor. If your scores show you need pre-program classes, your BT advisor will help you determine if you need one or more of the following:

- MTH020 Basic Mathematics........................................ 4
- RD090 College Textbook Reading................................ 3

If you have questions about the requirements, contact the Business Technology program chair patti.sessions@chemeketa.edu or call the department office at 503.399.5048. Failure to be assessed may delay your entry into program classes.

Administrative Office Professional

Office Fundamentals Certificate of Completion
The Office Fundamentals program allows you to concentrate on developing the basic skills required of a receptionist, file clerk, document processor, and/or an employee in other related positions. Course content includes keyboard skillbuilding, records management, business English, and basic word processing, spreadsheet, database, and presentation software. If you wish to refresh specific skills, you may enroll in other electives as your schedule allows.

You may work toward the Office Fundamentals program on the Salem campus and at Chemeketa’s outreach campuses and centers in Dallas, McMinnville, and Woodburn.

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $1,355; class fees, $100; universal fee, $518; equipment and supplies,
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.

Office Fundamentals core requirements and electives (37 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>
<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>2</td>
</tr>
<tr>
<td>BT130</td>
<td>Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>BT186</td>
<td>Personal and Professional Development</td>
<td>3</td>
</tr>
<tr>
<td>CA118A</td>
<td>Microsoft Windows Basic</td>
<td>1</td>
</tr>
<tr>
<td>CA118B1</td>
<td>Excel Basics 1</td>
<td>1</td>
</tr>
<tr>
<td>CA118B2</td>
<td>Excel Basics 2</td>
<td>1</td>
</tr>
<tr>
<td>CA118D</td>
<td>Internet for the Office Environment</td>
<td>1</td>
</tr>
<tr>
<td>CA118E</td>
<td>Outlook Basics</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>CIS101</td>
<td>Introduction to Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CA100</td>
<td>Beginning Computing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Office Fundamentals elective*</td>
<td>3</td>
</tr>
</tbody>
</table>

*Office Fundamentals electives (select 3 credit hours): Courses with BA, BT, CA, and CIS prefixes. Recommended: BA115, BT280C, or FE205B.

Getting started

The first step to entering the following certificate programs is to take part in an assessment process, which includes taking the college’s free placement test. The second step is to obtain your scores from the Advising and Counseling Services staff. Next, see a Business Technology (BT) faculty advisor. If your scores show you need pre-program classes, your BT advisor will help you determine if you need one or more of the following:

| BT104    | Business English 1                        | 3            |
| CA121    | Keyboarding                               | 3            |
| MTH020   | Basic Mathematics                          | 4            |
| RD090    | College Textbook Reading                  | 3            |

If you have questions about the requirements, contact the Business Technology program chair patti.sessions@chemeketa.edu or call the department office at 503.399.5048. Failure to be assessed may delay your entry into program classes.

Administrative Office Professional

Virtual Office Assistant Certificate of Completion

This program is designed for individuals with prior administrative assistant experience who are seeking the necessary coursework and practical experience to work as an independent contractor. Admittance to the program is granted only through program faculty approval. For more information, contact Business Technology program chair patti.sessions@chemeketa.edu or call the department office at 503.399.5048.

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $800; class fees, $100; universal fee, $560; equipment and supplies, $80. 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 20 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>BA214</td>
<td>Business Communications</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>CA117</td>
<td>Microsoft Publisher</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>
<tr>
<td>CIS101</td>
<td>Introduction to Microcomputer Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

*Choose a minimum of six credits from the list of electives below. Some of these courses have prerequisites. Check the course descriptions in the back of this catalog for details.

Business Software electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA201D</td>
<td>Microsoft Word Processing 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Microsoft Word Processing 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Business Software electives*</td>
<td>6</td>
</tr>
</tbody>
</table>

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.
Better in all courses.

You may earn a Certificate of Completion by successfully completing the required 55 credit hours with a grade of “C” or better in all courses.

If you have questions about the requirements, contact the Business Technology program chair patti.sessions@chemeketa.edu or contact the department 78

Two-Year Associate of Applied Science Degrees

Chemeketa’s Business Technology two-year program has four degree options: Accounting Administrative Assistant, Administrative Office Professional, Medical Administrative Assistant, and Virtual Office Assistant. You may earn an Associate of Applied Science degree by successfully completing the credit hours required for each area. Successful completion requires that you earn a grade of “C” or better in all courses.

If you are an office worker and you want to increase your skills in order to advance in your career, you may benefit from this program of study. You may select individual courses to meet your needs, or you may work toward an Associate of Applied Science degree.

Getting started

The first step to entering the following degree programs is to take part in an assessment process, which includes taking the college’s free placement test. The second step is to obtain your scores from the Advising and Counseling Services staff. Next, see a Business Technology (BT) faculty advisor. If your scores show you need pre-program classes, your BT faculty advisor will help you determine if you need one or more of the following:

BT104 Business English 1 ................................. 3
CA121 Keyboarding (if less than 25 wpm) ............... 3
MTH060 Introductory Algebra ............................... 4
RD090 College Textbook Reading .......................... 3

If you have questions about the requirements, contact the Business Technology program chair patti.sessions@chemeketa.edu or contact the department

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $2,035; class fees, $100; universal fee, $770; equipment and supplies, $220. 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 55 credit hours with a grade of “C” or better in all courses.

Administrative Office Professional

Business Technology Certificate of Completion

This certificate prepares you to work as a word processing operator, general office clerk, receptionist, document processor, file clerk, secretary, bookkeeping assistant, and/or accounting clerk. You may enroll part time or full time. Your classes will be offered primarily in traditional and computer classrooms. Taking classes through distance education is an option for some classes. If you are interested in taking classes primarily by distance delivery, see the Business Software Certificate.

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $2,035; class fees, $100; universal fee, $770; equipment and supplies, $220. 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 55 credit hours with a grade of “C” or better in all courses.

Virtual Office Assistant electives

<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 Application using Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>BA214</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BT112</td>
<td>Proofreading/Editing</td>
<td>3</td>
</tr>
<tr>
<td>BT130</td>
<td>Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>BT210</td>
<td>Professional Communication Skills</td>
<td>4</td>
</tr>
<tr>
<td>CA122</td>
<td>Keyboard Skillbuilding</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>CA225</td>
<td>Advanced Document Formatting</td>
<td>3</td>
</tr>
</tbody>
</table>

*Choose three credits from the list of electives below.

**Virtual Office Assistant electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT105</td>
<td>Business English 2</td>
<td>3</td>
</tr>
<tr>
<td>BT112</td>
<td>Proofreading/Editing</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>2</td>
</tr>
<tr>
<td>BT130</td>
<td>Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>BT131</td>
<td>Electronic Calculators</td>
<td>2</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>CA118A</td>
<td>Microsoft Windows Basics</td>
<td>1</td>
</tr>
<tr>
<td>CA118B1</td>
<td>Excel Basics 1</td>
<td>1</td>
</tr>
<tr>
<td>CA118B2</td>
<td>Excel Basics 2</td>
<td>1</td>
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<tr>
<td>CA118C1</td>
<td>Access Basics 1</td>
<td>1</td>
</tr>
<tr>
<td>CA118D</td>
<td>Internet for the Office Environment</td>
<td>1</td>
</tr>
<tr>
<td>CA118E</td>
<td>Outlook Basics</td>
<td>1</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>
<tr>
<td>CIS101</td>
<td>Introduction to Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>CA100</td>
<td>Beginning Computing</td>
<td>3</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra</td>
<td>4</td>
</tr>
</tbody>
</table>

*In order to be most successful, take CA118A prior to other CA courses in your program.

**Choose BA104 or any BA, BT, or CA course.
office at 503.399.5048. Failure to be assessed may delay your entry into program classes.

**Administrative Office Professional**

**Accounting Administrative Assistant Associate of Applied Science Option**

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

This program provides you with basic education in bookkeeping—both manual and computerized—in addition to training in office skills such as information processing, office procedures, records management, and office management.

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $3,700; class fees, $255; universal fee, $1,400; equipment and supplies, $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 100 credit hours with a grade of "C" or better in all courses.

**Accounting Administrative Assistant first-year core requirements (49 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>BT105</td>
<td>Business English 2</td>
<td>3</td>
</tr>
<tr>
<td>BT112</td>
<td>Proofreading/Editing</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>2</td>
</tr>
<tr>
<td>BT130</td>
<td>Customer Service+</td>
<td>3</td>
</tr>
<tr>
<td>BT131</td>
<td>Electronic Calculators</td>
<td>2</td>
</tr>
<tr>
<td>BT210</td>
<td>Professional Communication Skills+</td>
<td>4</td>
</tr>
<tr>
<td>CA118A</td>
<td>Microsoft Windows Basics</td>
<td>1</td>
</tr>
<tr>
<td>CA118B1</td>
<td>Excel Basics 1</td>
<td>1</td>
</tr>
<tr>
<td>CA118B2</td>
<td>Excel Basics 2</td>
<td>1</td>
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<tr>
<td>CA118B3</td>
<td>Excel Basics 3</td>
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<tr>
<td>CA118C1</td>
<td>Access Basics 1</td>
<td>1</td>
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<tr>
<td>CA118C2</td>
<td>Access Basics 2</td>
<td>1</td>
</tr>
<tr>
<td>CA118D</td>
<td>Internet for the Office Environment</td>
<td>1</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>
<tr>
<td>CA220</td>
<td>QuickBooks-Computerized Bookkeeping</td>
<td>3</td>
</tr>
<tr>
<td>CIS101</td>
<td>Introduction to Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>CA100</td>
<td>Beginning Computing</td>
<td>3</td>
</tr>
</tbody>
</table>

or

<table>
<thead>
<tr>
<th>Course</th>
<th>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>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>BA228</td>
<td>Computer Accounting Applications</td>
<td>4</td>
</tr>
<tr>
<td>BA251</td>
<td>Office Management</td>
<td>3</td>
</tr>
<tr>
<td>BT186</td>
<td>Personal and Professional Development</td>
<td>3</td>
</tr>
<tr>
<td>BT271</td>
<td>Administrative Capstone Projects</td>
<td>3</td>
</tr>
<tr>
<td>BT280C</td>
<td>Cooperative Work Experience</td>
<td>3</td>
</tr>
<tr>
<td>CA118E</td>
<td>Outlook Basics</td>
<td>1</td>
</tr>
<tr>
<td>CA208</td>
<td>Workplace Presentation Using PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>CA225</td>
<td>Advanced Document Production</td>
<td>3</td>
</tr>
<tr>
<td>PSY104</td>
<td>Psychology in the Workplace</td>
<td>4</td>
</tr>
</tbody>
</table>

Accounting Administrative Assistant second-year core requirements (51 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>or</td>
<td></td>
<td></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>BA228</td>
<td>Computer Accounting Applications</td>
<td>4</td>
</tr>
<tr>
<td>BA251</td>
<td>Office Management</td>
<td>3</td>
</tr>
<tr>
<td>BT186</td>
<td>Personal and Professional Development</td>
<td>3</td>
</tr>
<tr>
<td>BT271</td>
<td>Administrative Capstone Projects</td>
<td>3</td>
</tr>
<tr>
<td>BT280C</td>
<td>Cooperative Work Experience</td>
<td>3</td>
</tr>
<tr>
<td>CA118E</td>
<td>Outlook Basics</td>
<td>1</td>
</tr>
<tr>
<td>CA208</td>
<td>Workplace Presentation Using PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>CA225</td>
<td>Advanced Document Production</td>
<td>3</td>
</tr>
<tr>
<td>PSY104</td>
<td>Psychology in the Workplace</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

**Administrative Office Professional Associate of Applied Science**

The Administrative Office Professional program 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 program emphasizes project management; internet/intranet communications and research; document production and retrieval; customer service; composition; efficient use of a variety of software packages; and public relations.

As a statewide cooperative effort among several Oregon community colleges, this program is transferable to the following participating schools: Blue Mountain Community College, Clackamas Community College, Clatsop Community College, Klamath Community College, Lane Community College, Linn-Benton Community College, Mt. Hood Community College, Portland Community College, and Southwestern Oregon Community College. Consult with Advising and Counseling Services and a Chemeketa Business Technology faculty advisor on course transferability.

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $3,500; class fees, $212; universal fee, $1,344; equipment and supplies, $368. 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 96 credit hours with a grade of "C" or better in all courses.
In addition to tuition, estimated costs for students who complete the required courses listed below are books, $3,600; class fees, $250; universal fee, $1,344; equipment and supplies, $384. 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 96 credit hours with a grade of “C” or better in all courses.

**Medical Administrative 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>CA100</td>
<td>Beginning Computing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Administrative Office Professional second-year core requirements (50 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>or MTH070</td>
<td>Elementary Algebra (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>BA214</td>
<td>Business Communications+</td>
<td>3</td>
</tr>
<tr>
<td>BA226</td>
<td>Business Law</td>
<td>4</td>
</tr>
<tr>
<td>BA251</td>
<td>Office Management</td>
<td>3</td>
</tr>
<tr>
<td>BT186</td>
<td>Personal and Professional Development</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>CA118E</td>
<td>Outlook Basics</td>
<td>1</td>
</tr>
<tr>
<td>CA119</td>
<td>Office Desk Publishing</td>
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</tr>
<tr>
<td>CA208</td>
<td>Workplace Presentation Using PowerPoint</td>
<td>3</td>
</tr>
<tr>
<td>CA220</td>
<td>QuickBooks-Computerized Bookkeeping</td>
<td>3</td>
</tr>
<tr>
<td>CA225</td>
<td>Advanced Document Production</td>
<td>3</td>
</tr>
<tr>
<td>PSY104</td>
<td>Psychology in the Workplace</td>
<td>4</td>
</tr>
</tbody>
</table>

+ Elective* Choose any 4-credit BA, BT, CA, or Foreign Language course.

**Medical Administrative Assistant Associate of Applied Science**

The Medical Administrative program prepares you to work in medically-related offices where you may make appointments, manage patient records, meet patients, type correspondence, transcribe patient records, maintain financial records, and complete insurance forms. Due to the confidential nature of medical office records, a background check may be required of students in this program.

+Meets related instruction requirement; see page 44. For subject areas, see page 53.

*Elective: Choose any 4-credit BA, BT, CA, or Foreign Language course.
Medical Administrative Assistant electives:
CA208 Workplace Presentations Using PowerPoint .......... 3
CA220 Quickbooks-Computerized Bookkeeping ............. 3
COMM115 Introduction to Intercultural Communication .... 4
HM113 Health Financing, Insurance, and Reimbursement ........ 3
SOC204 The Sociological Perspective ......................... 4
WR227 Technical Writing ..................................... 4

**Administrative Office Professional**

**Virtual Office Assistant Associate of Applied Science Option**

The Virtual Office Assistant program 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 responsibility. Often, virtual office assistants are self-employed professionals operating as independent contractors. Consequently, course content includes information on establishing a business, being aware of legal requirements, and developing marketing tools and a business website, along with management, social media, accounting, desktop publishing, and virtual office assisting coursework.

In addition to tuition, estimated costs for students who complete the required courses listed below are books, $3,600; class fees, $250; universal fee, $1,386; equipment and supplies, $384. 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 99 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>BT105</td>
<td>Business English 2</td>
<td>3</td>
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<td>BT112</td>
<td>Proofreading/Editing</td>
<td>3</td>
</tr>
<tr>
<td>BT116</td>
<td>Office Procedures</td>
<td>2</td>
</tr>
<tr>
<td>BT128</td>
<td>Introduction to Records Management</td>
<td>2</td>
</tr>
<tr>
<td>BT130</td>
<td>Customer Service+</td>
<td>2</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>CA118A</td>
<td>Microsoft Windows Basics</td>
<td>1</td>
</tr>
<tr>
<td>CA118B1</td>
<td>Excel Basics 1</td>
<td>1</td>
</tr>
<tr>
<td>CA118B2</td>
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<td>CA118B3</td>
<td>Excel Basics 3</td>
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<td>1</td>
</tr>
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<td>CA118C2</td>
<td>Access Basics 2</td>
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</tr>
<tr>
<td>CA118D</td>
<td>Internet for the Office Environment</td>
<td>1</td>
</tr>
<tr>
<td>CA122</td>
<td>Keyboard Skillbuilding</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>CA213</td>
<td>Integrating Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CIS101</td>
<td>Introduction to Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>CA100</td>
<td>Beginning Computing</td>
<td>3</td>
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</table>

**Virtual Office Assistant second-year core requirements (52 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</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>
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<tr>
<td>BA226</td>
<td>Business Law</td>
<td>4</td>
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<tr>
<td>BA251</td>
<td>Office Management</td>
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<tr>
<td>BA250</td>
<td>Small Business Management</td>
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<tr>
<td>BA206</td>
<td>Business Management Principles</td>
<td>4</td>
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<tr>
<td>BT272</td>
<td>Virtual Office 1</td>
<td>4</td>
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<tr>
<td>BT273</td>
<td>Virtual Office 2</td>
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<tr>
<td>CA118E</td>
<td>Outlook Basics</td>
<td>1</td>
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<tr>
<td>CA119</td>
<td>Office Desk Publishing 1</td>
<td>1</td>
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<tr>
<td>CA208</td>
<td>Workplace Presentation Using PowerPoint</td>
<td>3</td>
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<tr>
<td>CA220</td>
<td>QuickBooks-Computerized Bookkeeping</td>
<td>3</td>
</tr>
<tr>
<td>CA225</td>
<td>Advanced Document Production</td>
<td>3</td>
</tr>
<tr>
<td>PSY104</td>
<td>Psychology in the Workplace</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

**Chemistry**

(transfer course guideline)

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 (SOU), University of Oregon, and Western Oregon University. SOU 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 Counseling Services or a Chemeketa 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.

**Chiropractic**

(transfer course guideline)

Western States Chiropractic College in Portland offers a degree in Chiropractic Medicine. Students must complete two years of pre-chiropractic credits (90 quarter credits) with at least a 2.25 grade point average as well as a 2.25 grade point average, in chemistry, and/or biology courses.

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 Counseling Services or a Chemeketa 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-Health Informatics Program

healthinformatics.chemeketa.edu

Health Informatics is an emerging field that combines the disciplines of computer information systems and health information management. The program offers an Associate of Applied Science degree that prepares students to coordinate the computer information systems used in hospitals and medical clinics. Program coursework covers health data collection, storage and communication, and data processing to be used for the support of administrative and clinical decision-making, and the computer and telecommunications technology applied to these processes.

As a statewide cooperative effort among several Oregon community colleges, this program is transferable to the following participating schools: Lane Community College, Linn-Benton Community College, Portland Community College, Southwestern Oregon Community College, and Umpqua Community College. Consult with Advising and Counseling Services or a Chemeketa advisor on course transferability.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program Outcomes

Students completing the Computer Information Systems-Health Informatics AAS will:
- Develop, implement, and evaluate a health information management system
- Manage the acquisition, storage, retrieval and use of health information
- Apply operational health care knowledge to address health informatics system needs
- Create and query databases and user interfaces using advanced SQL concepts
- Select appropriate technology tools by recognizing tool capabilities and limitations
- Work effectively alone or as part of a team
- Communicate orally and in written form explain concepts, components and processes
- Plan, manage and control costs of a health care system.
- Identify and evaluate local and wide area network requirements for a health care organization
- Install, manage and troubleshoot issues in a network environment
- Specify, purchase and assemble hardware and software for a local area network
- Communicate effectively with vendors and users
- Define systems requirements for projects; use project management software and practices, apply accounting principles to increase profitability and decrease costs

Getting started
The first step to entering this program is to take part in an assessment process, which includes taking the college’s free assessment process, which includes taking the college’s free placement test. The second step is to discuss your scores with the Advising and Counseling Services staff. Next, see a Health Informatics program advisor. If your scores show you need pre-program classes, your advisor will help you determine if you need one or more of the following:

HM120 Medical Terminology 1................................. 3
MTH070 Elementary Algebra................................. 4
RD115 Academic Thinking and Reading.................. 3
WR115 Introduction to Composition........................ 4

If you have questions about the requirements contact Health Informatics faculty James Finholt at 503.589.7813 or Cheryl Davis at 503.399.2669. Failure to be assessed may delay your entry into the program.

Computer Information Systems-Health Informatics Associate of Applied Science

In addition to tuition, estimated costs for students who complete the entire AAS program listed above are books, $3,752; class fees, $927; universal fee, $1,484; equipment and supplies, $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 106 credit hours.

<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>BA211</td>
<td>Financial Accounting 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS120</td>
<td>Digital Literacy</td>
<td>4</td>
</tr>
<tr>
<td>CIS133SC</td>
<td>Fundamentals of Scripting Languages</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>CIS133J Fundamentals of Java Programming</td>
<td>4</td>
</tr>
<tr>
<td>MTH095</td>
<td>Intermediate Algebra+</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+</td>
<td>4</td>
</tr>
<tr>
<td>Term 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS121</td>
<td>Introduction to Programming</td>
<td>4</td>
</tr>
<tr>
<td>CIS125A</td>
<td>Micro Database Software-Access</td>
<td>3</td>
</tr>
<tr>
<td>CIS140B</td>
<td>Microcomputer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>HM112</td>
<td>Health Information Systems and Procedures</td>
<td>4</td>
</tr>
<tr>
<td>HM121</td>
<td>Medical Terminology 2</td>
<td>3</td>
</tr>
<tr>
<td>Term 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA224</td>
<td>Human Resource Management</td>
<td>4</td>
</tr>
<tr>
<td>CIS140U</td>
<td>UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CIS179</td>
<td>Introduction to Client-Server Networks</td>
<td>4</td>
</tr>
<tr>
<td>PSY201</td>
<td>Introduction to Psychology: Mind and Body+</td>
<td>4</td>
</tr>
<tr>
<td>Term 4</td>
<td></td>
<td></td>
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<tr>
<td>BA214</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>WR122 English Composition-Argumentation</td>
<td>4</td>
</tr>
<tr>
<td>and Research</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS276A</td>
<td>Introduction to Oracle: SQL</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>CIS276D Oracle Academy 1-SQL</td>
<td>4</td>
</tr>
<tr>
<td>CS275</td>
<td>Database Management</td>
<td>4</td>
</tr>
<tr>
<td>HM210</td>
<td>Introduction to Health Services</td>
<td>3</td>
</tr>
<tr>
<td>HM250</td>
<td>Health Information Management Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>
The Computer Information Systems program offers an Associate in Applied Science degree in Computer Systems and Information Technology that allows students to design a customized curriculum consisting of a broad foundation of general technology courses and one or more technical specialties. This specialized degree prepares students for a wide variety of employment opportunities in the computer information services industry. Students may also complete an Associate of Arts Oregon Transfer degree combined with computer science lower division transfer courses that provides the first two years of study towards a four-year bachelor’s degree in computer science. This program is transferable to any public University in Oregon and is also accepted by many private universities. The Computer Information Systems program additionally 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 Computer Systems and Information Technology core 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 Computer Support Certificate prepares the student for work in the design and implementation of business systems solutions, software and systems troubleshooting, technical support and end user training. The Systems Administration Certificate offers career opportunities in enterprise and workgroup systems administration. This certificate provides a pathway to the LINUX+, Microsoft Certified Systems Engineer, Microsoft Certified IT Professional, and Microsoft Certified Technical Specialist certifications. The Database Developer Certificate prepares professionals to be an integral member of development and support teams in information systems environments. 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). The Security and Forensics Certificate graduate may work in computer crime law enforcement, corporate information systems or private computer security consulting.

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.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Getting started
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 Advising and Counseling Services staff. You may need to complete pre-program courses. Then, your advisor will help you develop an individualized program of study, which may include one or more of the following:

- CA121  Keyboarding (if less than 25 wpm) .......................... 3
- MTH095  Intermediate Algebra .................................. 4
- RD090  College Textbook Reading ................................. 3
- WR115  Introduction to Composition ................................. 4

Program outcomes
Students completing the AAS will:
- 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 AAS outcomes, students completing the Computer Programming Certificate will:
- 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 AAS outcomes, students completing the Computer Systems Support Certificate will:
- Manage workgroup resources including file shares, print shares, and physical connections
- Install, configure and support industry required applications to the enterprise environment
- Use integrated software packages to analyze and support business problems related to the IT infrastructure
In addition to the AAS outcomes, students completing the Computer Systems Administration Certificate will:
- Manage enterprise resources including file shares, print shares, and physical connections
- Install, configure and support industry required operating systems for the enterprise environment
- Utilize enterprise tools to support remote access, security and redundancy of the enterprise environment

In addition to the AAS outcomes, students completing the Database Developer Certificate will:
- Develop data-gathering models using current data gathering software
- Organize data within current data-mining models
- Extract data using best practices data-mining techniques into correct report models
- Use current database languages technologies to create and build database objects

In addition to the AAS outcomes, students completing the Network Management and Systems Security Certificate will:
- Use logical analysis to resolve workstation and network problems related to internal and external data security breaches
- Conduct and evaluate individual and small group investigations related to current information technology security concerns
- Analyze and develop a defendable security plan for an enterprise environment

In addition to the AAS outcomes, students completing the Web Developer Certificate will:
- 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

Computer Systems and Information Technology Associate of Applied Science

In addition to tuition, estimated costs for students who complete the entire AAS program listed above are books, $3,330; class fees, $882; universal fee $1,358; equipment and supplies, $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 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)
 COMM111 Fundamentals of Public Speaking ................................. 4
 MTH1105 Introduction to Contemporary Mathematics+ .................. 4
 or
 MTH111 College Algebra+ ......................................................... 5
 PSY104 Psychology in the Workplace+ ........................................... 4
 WR121 English Composition-Exposition+ ...................................... 4
 WR227 Technical Writing .......................................................... 4
 Arts and Letters elective .............................................................. 3

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>Computer Information Sciences Pathway</td>
<td>1</td>
</tr>
<tr>
<td>CIS121</td>
<td>Introduction to Programming Concepts</td>
<td>4</td>
</tr>
<tr>
<td>CIS125A</td>
<td>Micro Database Software-Access</td>
<td>3</td>
</tr>
<tr>
<td>CIS133C</td>
<td>Scripting Languages</td>
<td>4</td>
</tr>
<tr>
<td>CIS140B</td>
<td>Microcomputer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS140U</td>
<td>UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CIS145</td>
<td>Microcomputer Hardware</td>
<td>4</td>
</tr>
<tr>
<td>CIS179</td>
<td>Introduction to Client-Server Networks</td>
<td>4</td>
</tr>
<tr>
<td>CIS244</td>
<td>Systems Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CIS278</td>
<td>Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>CIS279</td>
<td>Network Management</td>
<td>4</td>
</tr>
<tr>
<td>CIS288</td>
<td>Advanced Client Server Networks</td>
<td>4</td>
</tr>
<tr>
<td>CS275</td>
<td>Database Management</td>
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<tr>
<td>CIS related electives*</td>
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</table>

To complete the two-year AAS in Computer Systems and Information Technology, each student is required to take an additional 20 hours of credits from the list of courses below:

<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>
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<tr>
<td>BA202</td>
<td>Personal Effectiveness</td>
<td>3</td>
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<tr>
<td>BA277</td>
<td>Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>CIS060</td>
<td>Techniques of User Training</td>
<td>2</td>
</tr>
<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>CIS125H</td>
<td>xHTML Basics</td>
<td>4</td>
</tr>
<tr>
<td>CIS133J</td>
<td>Fundamentals of Java Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS133JS</td>
<td>JavaScript Web Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS133VB</td>
<td>Visual Basic-Event Driven Programming</td>
<td>4</td>
</tr>
<tr>
<td>CIS178I</td>
<td>Introduction to the Internet/World-Wide Web</td>
<td>3</td>
</tr>
<tr>
<td>CIS178W</td>
<td>Fundamentals of Web Design</td>
<td>4</td>
</tr>
<tr>
<td>CIS186</td>
<td>Computer Forensics</td>
<td>4</td>
</tr>
<tr>
<td>CIS195</td>
<td>Web Site Development</td>
<td>4</td>
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<tr>
<td>CIS233J</td>
<td>Fundamentals of Java Programming 2</td>
<td>4</td>
</tr>
<tr>
<td>CIS234J</td>
<td>Fundamentals of Java Programming 3</td>
<td>4</td>
</tr>
<tr>
<td>CIS276A</td>
<td>Introduction to Oracle SQL</td>
<td>4</td>
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<tr>
<td>CIS276B</td>
<td>Oracle: Programming with PL/SQL</td>
<td>4</td>
</tr>
<tr>
<td>CIS276C</td>
<td>Oracle: Building Reports</td>
<td>4</td>
</tr>
<tr>
<td>CIS276D</td>
<td>Oracle Academy 1-SQL</td>
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</tr>
<tr>
<td>CIS276E</td>
<td>Oracle Academy 2-PL/SQL</td>
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</tr>
<tr>
<td>CIS277A</td>
<td>Database Administration Fundamentals 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS277B</td>
<td>Database Administration Fundamentals 2</td>
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<tr>
<td>CIS280B-L</td>
<td>Cooperative Work Experience</td>
<td>2-12</td>
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<td>CIS289</td>
<td>Advanced Network Applications Support</td>
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<tr>
<td>CIS295</td>
<td>Web Applications Development</td>
<td>4</td>
</tr>
<tr>
<td>CJ101</td>
<td>Criminology</td>
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<tr>
<td>CS133U</td>
<td>C++ Language</td>
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<tr>
<td>CS160</td>
<td>Introduction to Computer Science</td>
<td>4</td>
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<tr>
<td>CS161</td>
<td>Computer Science 1</td>
<td>4</td>
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<tr>
<td>CS162</td>
<td>Computer Science 2</td>
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<tr>
<td>CS260</td>
<td>Computer Science 3: Data Structures</td>
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<tr>
<td>CS271</td>
<td>Principles of Computer Organization</td>
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<tr>
<td>FE205B</td>
<td>Resumes and Job Search Correspondence</td>
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<tr>
<td>FE205C</td>
<td>Interviewing for Success</td>
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<tr>
<td>VC237</td>
<td>Web Design 1</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.
Computer Systems and Information Technology

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 listed above are books, $897; class fees, $434; universal fee, $310; equipment and supplies: $150. 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 31 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>BA202</td>
<td>Personal Effectiveness</td>
<td>3</td>
</tr>
<tr>
<td>or BA101</td>
<td>Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td>CIS133J</td>
<td>Fundamentals of Java Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS133VB</td>
<td>Visual Basic-Event Driven Programming</td>
<td>4</td>
</tr>
<tr>
<td>CIS133JS</td>
<td>Java Script Web Programming</td>
<td>4</td>
</tr>
<tr>
<td>CIS133SC</td>
<td>Fundamentals of Scripting Languages</td>
<td>4</td>
</tr>
<tr>
<td>CIS233J</td>
<td>Fundamentals of Java Programming 2</td>
<td>4</td>
</tr>
<tr>
<td>CIS234J</td>
<td>Fundamentals of Java Programming 3</td>
<td>4</td>
</tr>
<tr>
<td>CIS133U</td>
<td>C++ Programming</td>
<td>4</td>
</tr>
</tbody>
</table>

Computer Systems Administration Certificate of Completion

The Computer Systems Administration Certificate prepares students with the knowledge and skills to design, install, implement, monitor, maintain, and manage enterprise and workgroup-level computer systems. 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 pathway as a stand-alone certificate.

In addition to tuition, estimated costs for students who complete the Computer Systems Administration Certificate listed above are books, $1,479; class fees, $342; universal fee, $518; equipment and supplies, $150. 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 37 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>BA202</td>
<td>Personal Effectiveness</td>
<td>3</td>
</tr>
<tr>
<td>or BA101</td>
<td>Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td>CIS133VB</td>
<td>Visual Basic-Event Driven Programming</td>
<td>4</td>
</tr>
<tr>
<td>CIS140B</td>
<td>Microcomputer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS140U</td>
<td>UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CIS145</td>
<td>Microcomputer Hardware</td>
<td>4</td>
</tr>
<tr>
<td>CIS179</td>
<td>Introduction to Client-Server Networks</td>
<td>4</td>
</tr>
<tr>
<td>CIS278</td>
<td>Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>CIS279</td>
<td>Network Management</td>
<td>4</td>
</tr>
<tr>
<td>CIS288</td>
<td>Advanced Client-Server Networks</td>
<td>4</td>
</tr>
<tr>
<td>CIS289</td>
<td>Advanced Network Applications Support</td>
<td>4</td>
</tr>
</tbody>
</table>

Computer Support Specialist Certificate of Completion

This certificate prepares you for a career as a software support specialist. The software support specialist has a strong foundation in computer systems concepts with an emphasis in microcomputer applications and practical experience. The Computer Support Specialist 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 pathway as a stand-alone certificate.

In addition to tuition, estimated costs for students who complete the Computer Support Specialist Certificate listed above are books, $1,435; class fees, $306; universal fee, $476; equipment and supplies, $150. 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 34 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>
</tr>
</thead>
<tbody>
<tr>
<td>BA202</td>
<td>Personal Effectiveness</td>
<td>3</td>
</tr>
<tr>
<td>or BA101</td>
<td>Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td>CIS060</td>
<td>Techniques of User Training</td>
<td>2</td>
</tr>
<tr>
<td>CIS120</td>
<td>Digital Literacy</td>
<td>4</td>
</tr>
<tr>
<td>CIS125A</td>
<td>Micro Database Software-Access</td>
<td>3</td>
</tr>
<tr>
<td>CIS125E</td>
<td>Excel Workbooks</td>
<td>4</td>
</tr>
<tr>
<td>CIS145</td>
<td>Microcomputer Hardware</td>
<td>4</td>
</tr>
<tr>
<td>CIS179</td>
<td>Introduction to Client-Server Networks</td>
<td>4</td>
</tr>
<tr>
<td>CIS278</td>
<td>Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>CIS288</td>
<td>Advanced Client-Server Networks</td>
<td>4</td>
</tr>
<tr>
<td>FE205B</td>
<td>Resume and Job Search Correspondence</td>
<td>1</td>
</tr>
<tr>
<td>FE205C</td>
<td>Interviewing for Success</td>
<td>1</td>
</tr>
</tbody>
</table>

You can choose to complete the Network Management and Systems Security 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 Database Developer pathway as a stand-alone certificate.

In addition to tuition, estimated costs for students who complete the Database Developer Certificate program listed above are books, $1,210; class fees, $270; universal fee, $420; equipment and supplies, $150. 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 30 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>BA202</td>
<td>Personal Effectiveness</td>
<td>3</td>
</tr>
<tr>
<td>BA101</td>
<td>Introduction to Business</td>
<td>4</td>
</tr>
<tr>
<td>CIS125A</td>
<td>Micro Database Software-Access</td>
<td>4</td>
</tr>
<tr>
<td>CIS276A</td>
<td>Introduction to Oracle: SQL</td>
<td>4</td>
</tr>
<tr>
<td>CIS276D</td>
<td>Oracle Academy 1-SQL</td>
<td>4</td>
</tr>
<tr>
<td>CIS276B</td>
<td>Oracle: Programming with PL/SQL</td>
<td>4</td>
</tr>
<tr>
<td>CIS276E</td>
<td>Oracle Academy 2-PL/SQL</td>
<td>4</td>
</tr>
<tr>
<td>CIS276C</td>
<td>Oracle: Building Reports</td>
<td>4</td>
</tr>
<tr>
<td>CIS277A</td>
<td>Database Administration Fundamentals 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS277B</td>
<td>Database Administration Fundamentals 2</td>
<td>4</td>
</tr>
<tr>
<td>CS275</td>
<td>Database Management</td>
<td>4</td>
</tr>
</tbody>
</table>

In addition to tuition, estimated costs for students who complete the Network Management and Systems Security program listed above are books, $1,539; class fees, $333; universal fee, $504; equipment and supplies: $150. 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 36 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>BA277</td>
<td>Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>CIS102A</td>
<td>Cyber Security and Safety</td>
<td>4</td>
</tr>
<tr>
<td>CIS140B</td>
<td>Microcomputer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS140U</td>
<td>UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CIS179</td>
<td>Introduction to Client-Server Networks</td>
<td>4</td>
</tr>
<tr>
<td>CIS186</td>
<td>Computer Forensics</td>
<td>4</td>
</tr>
<tr>
<td>CIS278</td>
<td>Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>CIS279</td>
<td>Network Management</td>
<td>4</td>
</tr>
<tr>
<td>CIS288</td>
<td>Advanced Client Server Networks</td>
<td>4</td>
</tr>
<tr>
<td>CJ101</td>
<td>Criminology</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition to tuition, estimated costs for students who complete the Computer Web Developer Certificate listed above are books, $710; class fees, $279; universal fee, $434; equipment and supplies: $150. 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 31 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>JavaScript Web Programming 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS133SC</td>
<td>Fundamentals of Scripting Languages</td>
<td>4</td>
</tr>
<tr>
<td>CIS133VB</td>
<td>Visual Basic-Event-Driven Programming</td>
<td>4</td>
</tr>
<tr>
<td>CIS178I</td>
<td>Introduction to the Internet/World Wide Web</td>
<td>3</td>
</tr>
<tr>
<td>CIS178W</td>
<td>Fundamentals of Web Design</td>
<td>4</td>
</tr>
<tr>
<td>CIS195</td>
<td>Web Site Development</td>
<td>4</td>
</tr>
<tr>
<td>CIS295</td>
<td>Web Applications Development</td>
<td>4</td>
</tr>
<tr>
<td>VC237</td>
<td>Web Design 1</td>
<td>4</td>
</tr>
</tbody>
</table>

Computer Systems and Information Technology

Network Management and Systems Security Certificate of Completion

The Network Management and Systems Security Certificate prepares students to obtain an entry-level position in local or federal law enforcement, or as a private computer security consultant or in corporate computer security. The Network Management and Systems Security 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 Network Management and Systems Security pathway as a stand-alone certificate.
Computer Science
(transfer course guideline)

Chemetek offers a program of study 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 of Science degree in Computer Science at Chemetek before transferring to a university for completion.

All of Oregon’s public universities offer Bachelor of Arts and/or Bachelor of Science degrees in Computer Science, Software Engineering, or Information Systems. In general, most Computer Science transfer students should combine the two-year AAOT transfer degree along with the CS transfer sequence classes which include CS160, CS161, CS162, CS260 and CS271. Transfer students will also need additional math courses commonly including MTH231, MTH251 and MTH252.

As a prospective student, you are required to meet with Chemetek’s Computer Science instructor, Andrew Scholer (503.589.7649 or andrew.scholer@chemetek.edu) or Advising and Counseling Services 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
(transfer course guideline)

Oregon’s state universities offer 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 Chemetek’s Advising and Counseling Services or a Chemetek 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, Law Enforcement, and Corrections Programs

cj.chemetek.edu

Graduates of Chemetek’s Criminal Justice, Law Enforcement, and Corrections programs may enter career fields in juvenile corrections, become law enforcement officers, adult or juvenile case workers, 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 (customs, border patrol, Transportation Security Administration, port security, Federal Bureau of Investigation, drug enforcement, computer information security services, intelligence analysis, or communications within any of these agencies).

The Criminal Justice Associate of Applied Science degree program 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.

The Associate of Applied Science degree in Law Enforcement prepares program 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. Chemetek’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 also meet social science discipline requirements. Before you enroll at Chemetek, consult with the Advising and Counseling Services and an advisor at the institution to which you plan to transfer.

Students in the Criminal Justice degree program 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.

In addition to the associate degrees, Career Pathways certificates of completion are offered in Basic Corrections and Basic Law Enforcement. The certificates are designed to provide the knowledge and skills needed for these positions. The certificates of completion are educational “stepping stones” and fit wholly into the Criminal Justice and/or Law Enforcement Associate of Applied Science degrees, allowing you to work in your field while earning your degree.

Chemetek also offers a one-year certificate in Juvenile Corrections and a degree in Juvenile Justice. Due to the sensitive nature and hiring standards of criminal juvenile justice agency employment qualifications, this program has special admission requirements for entry into the second year.

Students with law enforcement, or criminal or juvenile justice professional training, certification, or experience in the criminal justice career field should contact the program chair to see if they are eligible for Credit for Professional Certification college credits.
Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes

Students completing the Basic Corrections Certificate will:
- 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 Criminal Justice AAS will:
- 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 will:
- 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 AAS will:
- 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 Law Enforcement Certificate will:
- 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 AAS will:
- 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

Getting started

The first step to entering these programs is to take part in an assessment process, which includes taking the college’s free placement test and meeting with Advising and Counseling Services staff. You may need to complete pre-program courses.

Your advisor will help you develop an individualized program of study, which may include one or more of the following:

Course | Title | Credit Hours
--- | --- | ---
CA121A | Keyboarding A (if less than 25 wpm) | 1
CJ103 | Program Application and Employment Standards* | 1
MTH020 | Basic Mathematics | 4
RD090 | College Textbook Reading | 3
WR115 | Introduction to Composition | 4
WR060 | Introduction to Technical Writing | 3

* CJ103 requires students to pass a criminal background check and drug screening. Failure to pass these assessments will prevent admission to these programs.

If you have questions about the requirements, call Counseling and Career Services at 503.399.5120 or 503.399.5163. Failure to be assessed may delay your entry into program classes.

Criminal Justice

Basic Corrections Certificate of Completion

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,024; class fees, $20; universal fee, $504. 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 36 required credit hours with a grade of “C” or better in all courses.

General Education requirements (12 credit hours):

Course | Title | Credit Hours
--- | --- | ---
MTH060 | Introductory Algebra (or higher) | 4
PSY201 | Introduction to Psychology: Mind and Body | 4
WR121 | English Composition Exposition | 4

Basic Corrections core requirements (24 credit hours):

Course | Title | Credit Hours
--- | --- | ---
CJ101 | Criminology | 3
CJ130 | Introduction to Corrections Process | 3
CJ132 | Introduction to Parole and Probation | 3
CJ134 | Contraband and Search | 1
CJ136 | Transportation, Escorting, and Restraints | 1
CJ147 | Criminal Personality and Errors in Thinking | 1
CJ203 | Crisis Intervention Seminar | 3
CJ232 | Introduction to Corrections Casework | 3
CJ253 | Introduction to Penology | 3
CJ280C | Cooperative Work Experience | 3
Criminal Justice Associate of Applied Science

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $2,182; class fees, $65; universal fee, $1,400. 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 100 required credit hours with a grade of “C” or better in all courses. These include the 67 credit hours listed under general education requirements, 18 credit hours of Criminal Justice core requirements, and 15 credit hours of Criminal Justice electives.

General Education requirements (67 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>CJ206</td>
<td>Crime and Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>CJ210</td>
<td>Introduction to Criminal Investigations 1:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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>
</tbody>
</table>

Criminal Justice core requirements (18 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ120</td>
<td>Police Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>CJ121</td>
<td>Police Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>CJ122</td>
<td>Police Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>CJ220</td>
<td>Introduction to Law Enforcement</td>
<td>3</td>
</tr>
<tr>
<td>CJ222</td>
<td>Profiling Serial Killers</td>
<td>3</td>
</tr>
<tr>
<td>CJ224</td>
<td>Missing and Abducted Children</td>
<td>1</td>
</tr>
<tr>
<td>CJ230</td>
<td>Crisis Intervention Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CJ235</td>
<td>Youth, Drugs, and Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CJ236</td>
<td>Introduction to Penology</td>
<td>3</td>
</tr>
<tr>
<td>CJ237</td>
<td>How to Prepare for Oral Boards</td>
<td>2</td>
</tr>
<tr>
<td>CJ239</td>
<td>and Multi-Assessment</td>
<td></td>
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</tbody>
</table>

Criminal Justice electives (15 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ110</td>
<td>Introduction to Law Enforcement</td>
<td>3</td>
</tr>
<tr>
<td>CJ112</td>
<td>Field Operations and Patrol Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CJ130</td>
<td>Introduction to Corrections Process</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>Contraband and Search</td>
<td>1</td>
</tr>
<tr>
<td>CJ136</td>
<td>Transportation, Escorting, and Restraints</td>
<td>1</td>
</tr>
<tr>
<td>CJ138</td>
<td>Security Threat Groups</td>
<td></td>
</tr>
<tr>
<td>CJ140</td>
<td>Officer Survival Mindset</td>
<td>3</td>
</tr>
<tr>
<td>CJ147</td>
<td>Criminal Personality and Errors in Thinking</td>
<td>1</td>
</tr>
<tr>
<td>CJ200</td>
<td>Family Violence and Deviancy</td>
<td>3</td>
</tr>
<tr>
<td>CJ203</td>
<td>Crisis Intervention Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CJ209</td>
<td>Introduction to Victimology</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</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Justice</td>
<td></td>
</tr>
<tr>
<td>CJ220</td>
<td>Introduction to Substantive Law and Oregon</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Criminal Code</td>
<td>3</td>
</tr>
<tr>
<td>CJ222</td>
<td>Profiling Serial Killers</td>
<td>3</td>
</tr>
<tr>
<td>CJ224</td>
<td>Missing and Abducted Children</td>
<td>1</td>
</tr>
<tr>
<td>CJ230</td>
<td>Crisis Intervention Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CJ235</td>
<td>Youth, Drugs, and Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CJ236</td>
<td>Introduction to Penology</td>
<td>3</td>
</tr>
<tr>
<td>CJ237</td>
<td>How to Prepare for Oral Boards</td>
<td>2</td>
</tr>
<tr>
<td>CJ239</td>
<td>and Multi-Assessment</td>
<td></td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

*Arts and Letters electives: Due to current bilingual hiring preferences, students are urged to take SPN111, 112, 113.

**Law enforcement and adult corrections students are encouraged to take PSY201 and 202 for Psychology electives. Students with an interest for a juvenile justice emphasis are encouraged to pursue the Juvenile Corrections Certificate. Juvenile Certificate courses may be integrated into the Criminal Justice AAS degree.

Juvenile Corrections Certificate of Completion

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 program 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.

As a statewide cooperative effort among several Oregon community colleges, this program is transferable to the following participating schools: Clackamas Community College, Clatsop Community College, Lane Community College, Linn-Benton Community College, Portland Community College, Southwestern Oregon Community College, and Treasure Valley Community College. In addition, some courses may be applicable as electives toward a two-year degree. Consult with Advising and Counseling Services or a Chemeketa advisor on course transferability.

In addition to tuition, estimated costs for students who complete the entire program are books, $770; universal fee, $728. 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 degree by successfully completing these 52 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>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>SOC221</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>CJ132</td>
<td>Introduction to Parole and Probation</td>
<td>3</td>
</tr>
<tr>
<td>CJ232</td>
<td>Introduction to Corrections Casework</td>
<td>3</td>
</tr>
<tr>
<td>CJ235</td>
<td>Youth, Drugs, and Corrections</td>
<td>3</td>
</tr>
<tr>
<td>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>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

**Juvenile Justice Associate of Applied Science**

The Juvenile Justice program 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 (AAS) degree is a direct pathway from the statewide Juvenile Corrections Certificate of Completion (49 credits) in that all the courses can be applied to the degree.

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. With the approval of the CWE instructor/coordinator, you may enroll in CJ280B-L Cooperative Work Experience and earn college credit hours. For more information, look under Cooperative Work Experience in the catalog index.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,320; class fees, $20; universal fee, $1,372. 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>CJ101</td>
<td>Introduction to Microcomputer Applications (or higher)</td>
</tr>
<tr>
<td>CJ101</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CJ206</td>
<td>Crime and Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>SOC221</td>
<td>Juvenile Delinquency</td>
<td>4</td>
</tr>
<tr>
<td>BA202</td>
<td>Personal Effectiveness in Business**</td>
<td>3</td>
</tr>
<tr>
<td>CJ102</td>
<td>Survey of the Juvenile Justice System**</td>
<td>3</td>
</tr>
<tr>
<td>HS150</td>
<td>Personal Effectiveness for Human Services and</td>
<td>3</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Term 2</td>
<td>CJ230</td>
<td>Introduction to Juvenile Corrections</td>
</tr>
<tr>
<td>CJ235</td>
<td>Youth, Drugs, and Corrections**</td>
<td>3</td>
</tr>
<tr>
<td>HS101</td>
<td>Addiction Pharmacology and Physiology**</td>
<td>4</td>
</tr>
<tr>
<td>HS155</td>
<td>Wellness Coaching, Interviewing, and Advocacy**</td>
<td>3</td>
</tr>
<tr>
<td>PSY201</td>
<td>Introduction to Psychology: Mind and Body+</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+</td>
<td>4</td>
</tr>
<tr>
<td>Term 3</td>
<td>CJ203</td>
<td>Crisis Intervention Seminar</td>
</tr>
<tr>
<td>CJ132</td>
<td>Introduction to Parole and Probation</td>
<td>3</td>
</tr>
<tr>
<td>CJ232</td>
<td>Introduction to Corrections Casework</td>
<td>3</td>
</tr>
<tr>
<td>PSY202</td>
<td>Introduction 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>SOC206</td>
<td>Social Problems</td>
<td>4</td>
</tr>
<tr>
<td>Term 4</td>
<td>CJ240</td>
<td>Intake, Assessment, and Interviewing**</td>
</tr>
<tr>
<td>HS214</td>
<td>Advanced Interviewing and Counseling Skills**</td>
<td>3</td>
</tr>
<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR122</td>
<td>English Composition-Argumentation and Research</td>
<td>4</td>
</tr>
<tr>
<td>Term 5</td>
<td>CJ241</td>
<td>Group Skills for Correctional Clients**</td>
</tr>
<tr>
<td>HS217</td>
<td>Group Counseling Skills**</td>
<td>3</td>
</tr>
<tr>
<td>HE250</td>
<td>Personal Health</td>
<td>3</td>
</tr>
<tr>
<td>HPE295</td>
<td>Health and Fitness for Life</td>
<td>3</td>
</tr>
<tr>
<td>PSY239</td>
<td>Introduction to Abnormal Behavior</td>
<td>4</td>
</tr>
<tr>
<td>WR227</td>
<td>Technical Writing</td>
<td>4</td>
</tr>
</tbody>
</table>
### Law Enforcement

#### Basic Law Enforcement Certificate of Completion

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,332; class fees, $40; universal fee, $532. 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 38 required credit hours with a grade of "C" or better in all courses.

<table>
<thead>
<tr>
<th>General Education requirements (17 credit hours):</th>
<th>Credit Hours</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM1115 Introduction to Intercultural Communication</td>
<td>4</td>
<td>MTH060 Introductory Algebra (or higher)</td>
</tr>
<tr>
<td>PE185PA Personal Defense-Beginning</td>
<td>1</td>
<td>PSY102 Introduction to Psychology: Mind and Body</td>
</tr>
<tr>
<td>WR121 English Composition-Exposition</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**Basic Law Enforcement core requirements (21 credit hours):**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ100 Survey of the Criminal Justice System</td>
<td>3</td>
<td>CJ110 Introduction to Law Enforcement</td>
<td>3</td>
</tr>
<tr>
<td>CJ101 Criminology</td>
<td>3</td>
<td>CJ146 Officer Survival Mindset</td>
<td>3</td>
</tr>
<tr>
<td>CJ110 Introduction to Law Enforcement</td>
<td>3</td>
<td>CJ226 Introduction to Constitutional Law</td>
<td>3</td>
</tr>
<tr>
<td>CJ112 Field Operations and Patrol Procedures</td>
<td>3</td>
<td>CJ261 Law Enforcement Related Experience 1</td>
<td>3</td>
</tr>
<tr>
<td>CJ203 Crisis Intervention Seminar</td>
<td>3</td>
<td>CJ269 Police Ethics and Professional Conduct</td>
<td>3</td>
</tr>
<tr>
<td>CJ210 Introduction to Criminal Investigations 1: Crimes vs. Persons</td>
<td>3</td>
<td>PE185PA Personal Defense, Professional Conduct</td>
<td>3</td>
</tr>
<tr>
<td>CJ226 Introduction to Constitutional Law</td>
<td>3</td>
<td>PE185WD Strength, Beginning</td>
<td>1</td>
</tr>
</tbody>
</table>

### Getting started

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 Advising and Counseling Services. You may need to complete pre-program courses. Additionally, to be admitted to this program, you must be interviewed by faculty to determine your eligibility and suitability for this program.

If you have questions about the requirements, contact Advising and Counseling Services at 503.399.5120. Failure to be assessed may delay your entry into program classes.

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. With the approval of the CWE instructor/coordinator, you may enroll in CJ280B—Cooperative Work Experience and earn college credit hours. For more information, look under Cooperative Work Experience in the catalog index.

#### Law Enforcement Associate of Applied Science

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $2,062; class fees, $203; universal fee, $1,414; 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 101 credit hours with a grade of “C” or better in all courses:

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ100 Survey of the Criminal Justice System</td>
<td>3</td>
<td>CJ110 Introduction to Law Enforcement</td>
<td>3</td>
</tr>
<tr>
<td>CJ114 Introduction to Constitutional Law</td>
<td>3</td>
<td>CJ226 Law Enforcement Related Experience 1</td>
<td>3</td>
</tr>
<tr>
<td>CJ269 Police Ethics and Professional Conduct</td>
<td>3</td>
<td>PE185PA Personal Defense, Professional Conduct</td>
<td>3</td>
</tr>
<tr>
<td>PE185WD Strength, Beginning</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 6061-2678. The telephone number is 312.440.2500. The Web site is www.ada.org.

To enroll, you must have a high school diploma or GED certificate. 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 possibly a drug test. Successful completion of the Dental Assisting program requires that you earn a grade of “C” or better in all courses. If you have questions about the requirements, contact Advising and Counseling Services at 503.399.5120 or 503.399.5058. 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 on the Chemeketa website (www.chemeketa.edu).

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 6061-2678. The telephone number is 312.440.2500. The Web site is www.ada.org.

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.

Total required credit may vary due to the college's ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes
Students completing the certificate will:

- 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

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 Advising and Counseling Services staff. You may need to complete pre-program courses. Then, your advisor will help you develop an individualized program of study, which may include one or more of the following:

- BI060 Basic Science for Dental Assistants ................. 3
- CA121A Keyboarding A (if less than 25 wpm) .......... 1
- CIS101 Introduction to Microcomputer Applications .... 3
- COMM111 Fundamentals of Public Speaking ............ 4
- FYE105 Creating College Success ...................... 2
- RD115 Academic Thinking and Reading (or higher) ..... 3

If you have questions about the requirements, contact Advising and Counseling Services at 503.399.5120 or 503.399.5058. 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 on the Chemeketa website (www.chemeketa.edu).
Dental Assisting Certificate of Completion

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $800; lab fees, $696; universal fee, $784; uniform and shoes, $300; exam fees, $620; immunizations, $150; criminal background check, $50; CPR certification, $70; professional membership fee, $45. 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 56 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>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td></td>
<td></td>
</tr>
<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>
<tr>
<td>Term 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEN160</td>
<td>Dental Specialties</td>
<td>2</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>
<tr>
<td>Term 3</td>
<td></td>
<td></td>
</tr>
<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>English Composition-Exposition+</td>
<td>4</td>
</tr>
</tbody>
</table>

*Available through OIT online at http://www.oit.edu/dist/courses.

Dental Hygiene
(transfer course guideline)

Pacific University offers a Bachelor of Science degree in Dental Hygiene.

Admission to the Dental Hygiene program is competitive; only a limited number of applicants are accepted each year. It is important to check with the college of your choice for admission requirements and deadlines, and to obtain admission materials early, as requirements change.

Oregon Institute of Technology offers, in partnership with Chemeketa, a Bachelor of Science degree in Dental Hygiene on the Salem campus. The program requires one year of prerequisite coursework (see below) prior to entry into the professional program. Entry into the professional program is limited and students are selected by an application process. The application and other program information is available at www.oit.edu/dentalhygiene. The pre-dental hygiene curriculum is outlined below:

Design
(transfer course guideline)

Oregon State University offers a Bachelor of Science degree in Apparel Design, Interior Design, Housing Studies, and Merchandising Management.

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 Counseling Services or a Chemeketa advisor. Also, you should make early contact with an advisor at OSU to learn of any possible changes in an academic area.

Drafting Technology-CAD Programs

go.chemeketa.edu/drafting

Drafting Technology offers training for entry into careers in Computer-Assisted Drafting (CAD). The CAD program focuses primarily on drafting skills required for the fields of architecture and construction, with a minor focus on mechanical drafting. Students will learn a variety of the latest 2D and 3D software as they draw buildings, bridges, roadways and mechanical parts. 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 or an Associate of Applied Science degree.

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. 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.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

**Program outcomes**

**Students completing the CAD Certificate will:**
- Produce accurate 2D and 3D drawings using CAD software

**Students completing the Architectural Drafting Certificate will:**
- 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 Computer-Assisted Drafting (CAD) AAS will:**
- 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

**Getting started**

The first step to entering this program is to take part in an assessment process, which includes taking the college’s free placement test. The second step is to discuss your scores with the Advising and Counseling Services staff. Next, see a Drafting Technology program advisor. If your scores show you need pre-program classes, your advisor will help you determine if you need one or more of the following:

- CA121A  Keyboarding A (if less than 25 wpm)……………….1
- CIS101  Introduction to Microcomputer Applications…………3
- MTH070  Elementary Algebra……………………………..4
- RD090  College Textbook Reading…………………………3
- WR080  Basic Writing ………………………………………4

Note: In many cases students can enroll in program courses without completing all of the above prerequisite courses.

If you have questions about the requirements, contact Drafting Technology program staff at 503.399.5069. Failure to be assessed may delay your entry into program classes.

**Computer-Assisted Drafting (CAD)**

**Computer-Assisted Drafting (CAD) Certificate of Completion**

The CAD Certificate program is for students seeking a basic working knowledge of CAD systems. Full-time students can complete the program 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.

Completion of the CAD Certificate includes a competency-based AutoCAD Assessment Exam. All credits apply toward the Associate of Applied Science degree in CAD Drafting Technology.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $700; class fees, $250; universal fee, $616; certification exam, $50. 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 44 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>DRF112</td>
<td>Sketching</td>
<td>1</td>
</tr>
<tr>
<td>DRF114</td>
<td>Drafting Orientation</td>
<td>2</td>
</tr>
<tr>
<td>DRF130</td>
<td>CAD 1</td>
<td>3</td>
</tr>
<tr>
<td>MTH070</td>
<td>Elementary Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY104</td>
<td>Psychology in the Workplace+</td>
<td>4</td>
</tr>
<tr>
<td>DRF110</td>
<td>Applied Engineering Computations</td>
<td>2</td>
</tr>
<tr>
<td>DRF131</td>
<td>CAD 2</td>
<td>3</td>
</tr>
<tr>
<td>DRF150</td>
<td>Architectural Drafting 1</td>
<td>3</td>
</tr>
<tr>
<td>DRF220</td>
<td>GIS 1</td>
<td>2</td>
</tr>
<tr>
<td>WR060</td>
<td>Introduction to Technical Writing 1+</td>
<td>3</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+</td>
<td>4</td>
</tr>
<tr>
<td>DRF095C</td>
<td>Special Projects in Drafting and Design</td>
<td>3</td>
</tr>
<tr>
<td>DRF132</td>
<td>CAD 3</td>
<td>3</td>
</tr>
<tr>
<td>DRF140</td>
<td>3D Modeling with Inventor</td>
<td>3</td>
</tr>
<tr>
<td>DRF170</td>
<td>AutoCAD Certification Preparation</td>
<td>2</td>
</tr>
<tr>
<td>DRF240</td>
<td>Architectural Drafting 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Drafting elective*</td>
<td>3</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

**Drafting elective**: Select a course with a CVL, DRF, EGR or CAM prefix.
Computer-Assisted Drafting (CAD)

Architectural Drafting Certificate of Completion

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.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $800; class fees, $350; universal fee, $658; equipment and supplies, $200. 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 47 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>DRF132 CAD 3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DRF160 Spreadsheet and Database Applications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DRF241 Structural Drafting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DRF243 Architectural Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DRF273 Commercial Drafting with Revit 3</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

Computer-Assisted Drafting (CAD) Associate of Applied Science

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.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,500; class fees, $450; universal fee, $1,400; equipment and supplies, $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 100 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>CVL143 Introduction to Civil Survey</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DRF110 Applied Engineering Computations</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>DRF112 Sketching</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>DRF114 Drafting Orientation</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>DRF130 CAD 1</td>
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</tr>
<tr>
<td></td>
<td>MTH081 Technical Mathematics 1+</td>
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<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MTH111 College Algebra+ (or higher)</td>
<td>5</td>
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<tr>
<td>Term 2</td>
<td>DRF132 CAD 3</td>
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<tr>
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<td>DRF140 3D Modeling with Inventor</td>
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<td>DRF150 Architectural Drafting 1</td>
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<tr>
<td></td>
<td>DRF160 Spreadsheet and Database Applications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DRF221 GIS 2</td>
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</tr>
<tr>
<td></td>
<td>DRF241 Structural Drafting</td>
<td>3</td>
</tr>
<tr>
<td>Term 3</td>
<td>DRF132 CAD 3</td>
<td>3</td>
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<tr>
<td></td>
<td>DRF241 Structural Drafting</td>
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</tr>
<tr>
<td></td>
<td>DRF243 Architectural Design</td>
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</tr>
<tr>
<td></td>
<td>DRF273 Commercial Drafting with Revit 3</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

Early Childhood Education Programs

ece.chemeketa.edu

Early Childhood Education is a comprehensive program of both theory and practical experiences designed to prepare you to work with young children. Many of the courses may be helpful to parents of preschool-age children and to persons working with families, children, and individuals. Graduates may
qualify to be childcare aides, assistants, and teachers in preschools, day care centers, kindergartens, Head Start programs, and therapeutic relief nurseries.

Articulation agreements with Oregon State University and Portland State University allow Chemeketa’s Early Childhood Education graduates to enroll with third-year standing. See an advisor for details.

You may select individual courses to meet your needs, or you may work toward an Associate of Applied Science degree or a 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 (HDF) courses. In order to enroll in certain courses, students will be required to pass a criminal records check. A valid first aid card is required for graduation in both the one-year and two-year programs.

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 ECE280B-L Cooperative Work Experience and earn college credit hours. For more information, look under Cooperative Work Experience in the catalog index.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

**Program outcomes**

**Students completing the Infant/Toddler certificate will:**
- 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 will:**
- Understand the developmental stages of children age two-and-a-half to six years
- Plan and implement appropriate curriculum
- Demonstrate strategies that encourage health 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 certificate will:**
- 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 AAS will:**
- 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

**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 Advising and Counseling Services staff. You may need to complete pre-program courses. Then, your advisor will help you develop an individualized program of study, which may include one or more of the following:

- MTH020 Basic Mathematics................................................. 4
- RD090 College Textbook Reading................................. 3
- WR115 Introduction to Composition.............................. 4
- or WR060 Introduction to Technical Writing .................. 3

If you have questions about the requirements, contact Counseling and Career Services at 503.399.5120 or 503.399.6077. Failure to be assessed may delay your entry into program classes.

**Early Childhood Education**

**Infant/Toddler Certificate of Completion**

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 child care, 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.

In addition to tuition, estimated costs for students who complete the program listed below are books, $347 class fees, $35; universal fee, $210; immunization fees, $10; basic first aid card, $35; food handler card, $10; criminal records check, $3-83. 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 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 program.

**Course**

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
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<tbody>
<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>
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</table>

**Term 2**

<table>
<thead>
<tr>
<th>Term 2</th>
<th>Title</th>
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<tr>
<td>ECE151</td>
<td>Observing and Guiding Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HDF222</td>
<td>Family Relationships</td>
<td>3</td>
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</table>

2013–2014 Chemeketa Community College Catalog
Early Childhood Education

Preschool Certificate of Completion
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 child care, 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.

In addition to tuition, estimated costs for students who complete the program listed below are books, $347 class fees, $35; universal fee, $196; immunization fees, $10; basic first-aid card, $35; food handler card, $10; criminal records check, $3-83. 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 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 program.

<table>
<thead>
<tr>
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<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDF222</td>
<td>Family Relationships+</td>
<td>3</td>
</tr>
<tr>
<td>HDF247</td>
<td>Preschool Child Development</td>
<td>3</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>ECE162</td>
<td>Early Childhood Educator Orientation</td>
<td>2</td>
</tr>
</tbody>
</table>

Early Childhood Education

Early Childhood Education Certificate of Completion

In addition to tuition, estimated costs for students who complete the one-year program listed below are books, $456; class fees, $35; universal fee, $784; equipment and supplies, $36; immunization fees, $10; basic first-aid card, $35; food handler card, $10; criminal records check, $3-70; 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 56 credit hours with a grade of “C” or better in all ECE and HDF courses.
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 Counseling Services or a Chemeketa 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
See also Early Childhood Education and Speech-Language Pathology Assistant.

Elementary Education
(transfer course guideline)

Chemeketa offers articulation agreements with Oregon’s state universities offering Elementary Education programs, including Oregon State University, Eastern Oregon University, and Western Oregon University, which offer Bachelor of Arts and/or Bachelor of Science degrees in Elementary Education. Eastern Oregon University, Oregon State University, Portland State University, Southern Oregon University, and University of Oregon offer fifth-year programs. Chemeketa also offers articulation agreements in Education with Pacific University and Linfield College.

Students planning on attending WOU will complete a specific series of courses leading to the Associate of Arts Oregon Transfer Degree (AAOT). Students should see a Chemeketa advisor to obtain detailed requirements. Students planning to attend EOU will also complete the AAOT, then earn a bachelor's degree in Multidisciplinary Studies with a minor in education. Students should see a Chemeketa advisor and consult with the EOU School of Education for requirements.

Students planning on enrolling in a college offering a fifth-year Elementary Education program must obtain a baccalaureate degree in an academic major before being admitted to the fifth-year teacher education program. The major may be in general or liberal studies or in any subject taught in elementary schools. OSU recommends students major in Liberal Studies, General Science, Human Development, Family Studies, or Exercises and Sport Science, or a single discipline that relates to the elementary school curriculum.

Admission to both four-year and fifth-year education programs requires a minimum grade point average (GPA), usually 2.75 to 3.00. Admission also requires passing the California Basic Educational Skills Test (CBEST). Students transferring to WOU are advised to take the test at the completion of their general education requirements or early in their sophomore year, as scores are included as data required for admission to the Elementary Education program.

Students planning to transfer to a college offering a fifth-year program should follow the educational guideline outlined in the catalog for the academic major which they plan to complete before entering a fifth-year program.

Elementary Education majors planning to transfer to Concordia University should contact Advising and Counseling Services at 503.399.5120 for transfer information.

**Requires recommendation from two Early Childhood faculty members.

***Students transferring to Western Oregon University should see advisor.

****Requires recommendation from two Early Childhood faculty members.

Economics
(transfer course guideline)

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.
Secondary Education
(transfer course guideline)

Oregon’s state universities offering secondary education programs are Eastern Oregon University, Oregon State University, and Western Oregon University, which offer Bachelor of Science and Bachelor of Arts degrees in secondary education, and Eastern Oregon University, Oregon State University, Portland State University, Southern Oregon University, University of Oregon, and Western Oregon University, which offer a fifth-year secondary education program. University of Oregon programs are limited to special education.

Admission to fifth-year education programs requires completion of a baccalaureate degree in the subject you plan to teach at a junior or senior high school. The secondary education program is at the graduate level. Admission to these programs requires maintaining a specific GPA—usually 2.75 to 3.00—and successfully passing the California Basic Educational Skills Test (CBEST) or Praxis I: Pre-Professional Skills Test (PPST) and the Praxis Examination in your major teaching area.

Admission to the four-year education program at Western Oregon University requires maintaining a 2.75 GPA and passing the CBEST or PPST.

You should enroll in courses that meet the general education requirements for the school to which you plan to transfer, as well as courses that meet the requirements for the major subject in which you plan to teach.

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 Counseling Services or a Chemeketa 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.

Electronics Technologies Programs
go.chemeketa.edu/electronics

Career opportunities in the electronics field are diverse, exciting, and rewarding. Chemeketa’s electronics department offers seven programs of study to meet the present and future challenges of the electronics industry: certificates in the areas of Process Control and Electronics, and associate degrees in Electronic Engineering Technician, Computer Electronics, Industrial Electronics, Process Control Technology, 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 Roger White at 503.399.5068.

For additional information or tours of the electronics laboratories, visit electronics.chemeketa.edu. or contact Charles Sekafetz at 503.399.6254.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes:
Students completing the Electronics Certificate will:
- 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 Process Control Certificate will:
- Apply skills in system performance and control processes to quickly adapt to new equipment processes and changes in manufacturing technology
- Use standard process control terminology and clarifying language to communicate orally and in writing with customers, suppliers, supervisors, and co-workers

Students completing the Electronic Engineering AAS will:
- Use communication, interpersonal, and leadership skills to establish and maintain collaborative relationships with supervisors, co-workers, 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 Computer Electronics AAS will:
- Identify and solve technology problems related to the manufacture, installation, or maintenance of computers or computer-like equipment

In addition to the Electronic Engineering outcomes, students completing the Industrial Electronics AAS will:
- 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 Process Control Technology AAS will:
- Apply skills in system performance and control processes to quickly adapt to new equipment processes and changes in manufacturing technology
- Identify and solve technology problems related to the development, manufacturing, installation, and servicing of process control systems including food processing, agriculture, pulp and paper, chemical, biofuel, and applications that require control

**In addition to the Electronic Engineering outcomes, students completing the Renewable Energy Management AAS will:**
- Evaluate the energy use and recommend appropriate alternative energy solutions as well as energy conservation methods for various applications

**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 Advising and Counseling Services staff. You may need to complete pre-program courses. 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</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CA121</td>
<td>Keyboarding (if less than 25 wpm)</td>
<td>3</td>
</tr>
<tr>
<td>CIS101</td>
<td>Introduction to Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>MTH070</td>
<td>Elementary Algebra</td>
<td>4</td>
</tr>
<tr>
<td>RD090</td>
<td>College Textbook Reading</td>
<td>3</td>
</tr>
<tr>
<td>WR090</td>
<td>Fundamentals of Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

If you have questions about the requirements, contact Advising and Counseling Services at 503.399.5120 or 503.399.5114. Failure to be assessed may delay your entry into program classes.

**Electronic Engineering Technician**

**Electronics Certificate of Completion**
The Electronics Pathway Certificate is a three-term program, which focuses on core electronics concepts, use of testing and monitoring equipment, a basic understanding 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 AAS.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,490; class fees, $215; universal fee $602; equipment and supplies, $35; and Intel-compatible computer, $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 the required 37 credit hours with a grade of “C” or better in all courses.

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</thead>
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<td>ELT111</td>
<td>Programming Concepts 1</td>
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<tr>
<td>MT101</td>
<td>Introduction to Process Control</td>
<td>2</td>
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<tr>
<td>MT211</td>
<td>Sensors and Control Elements 1</td>
<td>2</td>
</tr>
<tr>
<td>MT281</td>
<td>Process Control Practicum 1</td>
<td>2</td>
</tr>
<tr>
<td>MT212</td>
<td>Sensors and Control Elements 2</td>
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<tr>
<td>MT215</td>
<td>Instrumentation</td>
<td>3</td>
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<tr>
<td>MT227A</td>
<td>Pneumatics and Hydraulics Fundamentals</td>
<td>3</td>
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<tr>
<td>MT231</td>
<td>Programmable Logic Controllers 1</td>
<td>3</td>
</tr>
<tr>
<td>MT282</td>
<td>Process Control Practicum 2</td>
<td>2</td>
</tr>
<tr>
<td>MT293</td>
<td>Flexible Manufacturing Systems and Processes</td>
<td>3</td>
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<tr>
<td>MT232</td>
<td>Programmable Logic Controllers 2</td>
<td>2</td>
</tr>
<tr>
<td>MT235</td>
<td>Human Machine Interfaces</td>
<td>2</td>
</tr>
<tr>
<td>MT241</td>
<td>System Calibration and Standards</td>
<td>2</td>
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<tr>
<td>MT283</td>
<td>Process Control Practicum 3</td>
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</table>

**Process Control Certificate of Completion**
The Process Control Certificate is a three-term program with focused concentration in the areas of electronics, systems design and safety, and instrumentation. It is for students seeking to specialize in process control systems. This certificate is wholly contained in the Process Control Technology degree which prepares students to monitor and operate processing systems and instrumentation. Process control technology skills go across manufacturing industries. Students will gain skills in system performance and control processes which will allow them to more quickly adapt to new equipment processes and changes in manufacturing technology. The skill sets in this program are aligned with the International Society of Automation (ISA) standards.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,590; class fees, $245; universal fee $518; equipment and supplies, $925; and Intel-compatible computer, $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 the required 37 credit hours with a grade of “C” or better in all courses.
Electronic Engineering Technician

Computer Electronics Associate of Applied Science Option

Graduates of the Computer Electronics program begin careers with companies that manufacture, install, debug, or maintain computers or computer-like equipment. This equipment includes, but is not limited to, mainframe computers, mini and microcomputers, automated office equipment and systems (word processors, point-of-purchase terminals, local area and wide area networks), computer peripherals, engineering work stations, automated factory products, and data communication networks.

The training includes both specific technical skills needed in the field and broader skills in communications and human relations, which are necessary for career success. You’ll have hands-on practice working with computer hardware and software. Classes emphasize both component and system-level troubleshooting as well as installation and maintenance of equipment and networks.

As a graduate of this program, you may also 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).

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $2,650; class fees, $430; universal fee, $1,428; equipment and supplies, $460; and Intel-compatible computer, $900. 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 120 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>ELT111</td>
<td>Electronics Orientation</td>
<td>1</td>
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<tr>
<td>ELT131</td>
<td>Electronic Concepts 1</td>
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<td>MTH111</td>
<td>College Algebra+ (or higher)</td>
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<tr>
<td>MTH081</td>
<td>Technical Mathematics 1+</td>
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<tr>
<td>NET123</td>
<td>Computer Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+</td>
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</tr>
<tr>
<td>ELT132</td>
<td>Electronic Concepts 2</td>
<td>4</td>
</tr>
<tr>
<td>ELT141</td>
<td>Transistor Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>ELT151</td>
<td>Digital Fundamentals</td>
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<tr>
<td>MTH112</td>
<td>Trigonometry (or higher)</td>
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<td>MTH082</td>
<td>Technical Mathematics 2</td>
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**Term 3**

<table>
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<tbody>
<tr>
<td>ELT133</td>
<td>Electronic Concepts 3</td>
<td>4</td>
</tr>
<tr>
<td>ELT142</td>
<td>Semiconductor Optoelectronic Devices</td>
<td>3</td>
</tr>
<tr>
<td>ELT143</td>
<td>Pulse Circuit Fundamentals</td>
<td>3</td>
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<tr>
<td>WR227</td>
<td>Technical Writing</td>
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**Term 4**

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<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>ELT121</td>
<td>Programming Concepts 1</td>
<td>4</td>
</tr>
<tr>
<td>ELT252</td>
<td>Digital Circuit Applications</td>
<td>3</td>
</tr>
<tr>
<td>PH121</td>
<td>Applied Physics</td>
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<td>Electronics electives*</td>
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**Term 5**

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<tr>
<td>ELT253</td>
<td>Microprocessor Systems</td>
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<tr>
<td>ELT254</td>
<td>Computer Hardware</td>
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<td>CIS145</td>
<td>Microcomputer Hardware</td>
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<tr>
<td>PSY104</td>
<td>Psychology in the Workplace+</td>
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**Term 6**

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<tr>
<td>ELT222</td>
<td>Programming Concepts 2</td>
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<tr>
<td>CIS140U</td>
<td>UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CIS179</td>
<td>Introduction to Client-Server Networks</td>
<td>4</td>
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<tr>
<td>ELT256</td>
<td>Advanced Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td>ELT283</td>
<td>Logical Troubleshooting</td>
<td>4</td>
</tr>
<tr>
<td>FE205B</td>
<td>Resumes and Job Search Correspondence</td>
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<tr>
<td>Electronics electives*</td>
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*Computer Electronics electives:

**Term 3**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ELT161</td>
<td>Linear IC Fundamentals</td>
<td>4</td>
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<tr>
<td>NET141</td>
<td>Networks for Small Business</td>
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**Term 4**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ELT244</td>
<td>Electronic Circuit Analysis</td>
<td>4</td>
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<tr>
<td>NET142</td>
<td>Medium Business Networks</td>
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**Term 5**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CIS278</td>
<td>Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>NET143</td>
<td>Routing and Switching Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

**Term 6**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
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<tr>
<td>ELT255</td>
<td>Advanced Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>CIS279</td>
<td>Network Management</td>
<td>4</td>
</tr>
<tr>
<td>NET144</td>
<td>Network Design and Support</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

Electronic Engineering Technician Associate of Applied Science

Upon graduation from the Electronic Engineering Technician program, 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 the electronic engineering 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).

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $2,820; class fees, $430; universal fee, $1,442; Intel-compatible computer, $900; equipment and supplies, $410. 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 103 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><strong>Term 1</strong></td>
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<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>MTH111</td>
<td>College Algebra+ (or higher)</td>
<td>5</td>
</tr>
<tr>
<td>or MTH081</td>
<td>Technical Mathematics 1+</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+</td>
<td>4</td>
</tr>
<tr>
<td><strong>Term 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELT132</td>
<td>Electronic Concepts 2</td>
<td>4</td>
</tr>
<tr>
<td>ELT141</td>
<td>Transistor Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ELT151</td>
<td>Digital Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>MTH112</td>
<td>Trigonometry (or higher)</td>
<td>5</td>
</tr>
<tr>
<td>or MTH082</td>
<td>Technical Mathematics 2</td>
<td>4</td>
</tr>
<tr>
<td><strong>Term 3</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELT133</td>
<td>Electronic Concepts 3</td>
<td>4</td>
</tr>
<tr>
<td>ELT142</td>
<td>Semiconductor Optoelectronic Devices</td>
<td>3</td>
</tr>
<tr>
<td>ELT143</td>
<td>Pulse Circuit Fundamentals</td>
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</tr>
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<td>ELT161</td>
<td>Linear IC Fundamentals</td>
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<tr>
<td>WR227</td>
<td>Technical Writing</td>
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<td><strong>Term 4</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>ELT121</td>
<td>Programming Concepts 1</td>
<td>4</td>
</tr>
<tr>
<td>ELT244</td>
<td>Electronic Circuit Analysis</td>
<td>4</td>
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<tr>
<td>ELT252</td>
<td>Digital Circuit Applications</td>
<td>3</td>
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<tr>
<td>PH121</td>
<td>Applied Physics</td>
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<tr>
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<td><strong>Term 5</strong></td>
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<tr>
<td>ELT253</td>
<td>Microprocessor Systems</td>
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<td>ELT262</td>
<td>Linear IC Applications</td>
<td>3</td>
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<tr>
<td>ELT281</td>
<td>Antennas and Transmission Lines</td>
<td>2</td>
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<tr>
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<td>Telecommunications</td>
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<td>Applied Physics</td>
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<tr>
<td>or PH202</td>
<td>General Physics</td>
<td>5</td>
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<tr>
<td><strong>Term 6</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELT283</td>
<td>Logical Troubleshooting</td>
<td>4</td>
</tr>
<tr>
<td>ELT291</td>
<td>Control, Robotics, and Power Systems</td>
<td>4</td>
</tr>
<tr>
<td>PSY104</td>
<td>Psychology in the Workplace+</td>
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<tr>
<td>Electronics electives*</td>
<td>6</td>
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*Electronics electives (select 6 credits):
(For second-year students only; must have prior approval of program chair.)

<table>
<thead>
<tr>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CH121 College Chemistry</td>
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<tr>
<td>CH201 Chemistry for Engineers</td>
<td>4</td>
</tr>
<tr>
<td>CIS145 Microcomputer Hardware</td>
<td>4</td>
</tr>
<tr>
<td>ELT222 Programming Concepts 2</td>
<td>4</td>
</tr>
<tr>
<td>ELT254 Computer Hardware</td>
<td>4</td>
</tr>
<tr>
<td>ELT255 Advanced Data Communications</td>
<td>4</td>
</tr>
<tr>
<td>ELT256 Advanced Computer Architecture</td>
<td>4</td>
</tr>
<tr>
<td>ELT280C Cooperative Work Experience</td>
<td>3</td>
</tr>
<tr>
<td>ELT293 Flexible Manufacturing Systems and Processes</td>
<td>3</td>
</tr>
<tr>
<td>MT101 Introduction to Process Control</td>
<td>2</td>
</tr>
<tr>
<td>MT110 Microelectronics and Solar Cell Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>MT211 Sensor and Control Elements 1</td>
<td>4</td>
</tr>
<tr>
<td>MT212 Sensor and Control Elements 2</td>
<td>3</td>
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<tr>
<td>MT215 Instrumentation</td>
<td>3</td>
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<tr>
<td>MT221 Fluid and Vacuum Systems</td>
<td>4</td>
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<td>MT223 High Vacuum Technology</td>
<td>3</td>
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<tr>
<td>MT227A Pneumatics and Hydraulics Fundamentals</td>
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<tr>
<td>MT231 Programmable Logic Controllers 1</td>
<td>3</td>
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<tr>
<td>MT232 Programmable Logic Controllers 2</td>
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<tr>
<td>MT235 Human Machine Interfaces</td>
<td>2</td>
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<tr>
<td>MT241 System Calibration and Standards</td>
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<tr>
<td>MT281 Process Control Practicum 1</td>
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<td>MT282 Process Control Practicum 2</td>
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<tr>
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<tr>
<td>MTH241 Elementary Calculus</td>
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<td>MTH243 Probability and Statistics 1</td>
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<td>MTH251 Differential Calculus (or higher)</td>
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<td>RNW110 Solar Energy Systems</td>
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<tr>
<td>RNW120 Wind Energy Systems</td>
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<tr>
<td>RNW130 Biomass Energy Systems</td>
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<tr>
<td>RNW140 Hydroelectric and Geothermal Energy Systems</td>
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<tr>
<td>RNW180 Energy Management</td>
<td>3</td>
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</tbody>
</table>

**Electronic Engineering Technician**

**Industrial Electronics Associate of Applied Science Option**

Students selecting the Industrial Electronics program may begin careers-upon graduation-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 program 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 the Industrial Electronics advisor (Charles Sekafetz at 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).

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $2,625; class fees, $430; universal fee, $1,442; Intel-compatible computer, $900; equipment and supplies, $455. 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 103 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>
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<tr>
<td>Term 1</td>
<td>DRF101 Basic CAD for Electronics</td>
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<td>ELT111 Electronics Orientation</td>
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<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>
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<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>
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<td>WR121 English Composition-Exposition+</td>
<td>4</td>
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<td>Term 2</td>
<td>ELT132 Electronic Concepts 2</td>
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<td>ELT141 Transistor Fundamentals</td>
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<td>ELT151 Digital Fundamentals</td>
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<td></td>
<td>MTH082 Technical Mathematics 2</td>
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<td>MTH112 Trigonometry (or higher)</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>ELT143 Pulse Circuit Fundamentals</td>
<td>3</td>
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<td></td>
<td>ELT161 Linear IC Fundamentals</td>
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<td>WR227 Technical Writing</td>
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<td>Term 4</td>
<td>COMM111 Fundamentals of Public Speaking</td>
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<td></td>
<td>ELT121 Programming Concepts 1</td>
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<td></td>
<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></td>
<td>PH121 Applied Physics</td>
<td>4</td>
</tr>
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<td>or</td>
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<tr>
<td></td>
<td>PH201 General Physics</td>
<td>5</td>
</tr>
</tbody>
</table>

Electronic Engineering Technician

Process Control Technology Associate of Applied Science Option

Students in this program will gain skills in system performance and control processes which will allow them to more quickly adapt to new equipment and procedures in the manufacturing industry. Process control technology skills cross all segments of the manufacturing industry. Graduates of this program may find work with solar, silicon, biofuel, and food processing companies, or a variety of other manufacturing entities.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $2,850; class fees, $400; universal fee, $1,288; equipment and supplies, $465; and Intel-compatible computer, $900. 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 92 credit hours with a grade of “C” or better in all courses.

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<th>Title</th>
<th>Credit Hours</th>
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<td>Term 1</td>
<td>ELT111 Electronics Orientation</td>
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<td>ELT131 Electronic Concepts 1</td>
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<td></td>
<td>MT101 Technical Mathematics 1</td>
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<td>or</td>
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<tr>
<td></td>
<td>MTH081 Technical Mathematics+ (or higher)</td>
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</table>

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A course in energy management systems will provide a capstone experience for students in the program.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $2,650; class fees, $355; universal fee, $1,316; equipment and supplies, $625; and Intel-compatible computer, $900. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.
Emergency Medical Technology/Paramedic Program

go.chemeketa.edu/emt

The Emergency Medical Technology/Paramedic program offers career training for entry-level personnel, as well as certification and continuing education courses. Chemeketa offers a diverse, experienced emergency medical services faculty, excellent classroom and laboratory facilities, and outstanding hospital and pre-hospital clinical training sites. The program is accredited by the Oregon Department of Education, the Oregon Department of Health Services/Emergency Medical Services (DHS-EMS), and nationally by the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions.

Students successfully completing a level of training (EMT, Advanced EMT, or Paramedic) will be eligible to sit for the state licensure and national registry certification exam at that level.

Emergency Medical Technicians may be employed by ambulance companies, fire departments, police departments, and industries. There is a great demand for EMTs and paramedics, both locally and nationally.

Students working toward a Paramedic license will complete approximately 300 hours of hospital clinical experience and 480-600 hours of field internship. Clinical experiences focus on developing the skills, attitudes, and work habits necessary for graduates to be successful in their field.

The program has been designed to be completed in 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. This program has special admission requirements and enrollment limits. To assess the time you will need to complete the program, please call 503.399.5163.

Total required credit may vary due to the college's ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes

Students completing the AAS will:

- 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

Emergency Medical Technology Associate of Applied Science

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $2,112; class fees, $1,613; universal fee, $1,456. 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 104 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>Term 1</td>
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<tr>
<td>BI231</td>
<td>Human Anatomy and Physiology</td>
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<td>EMT151</td>
<td>Emergency Medical Technician, Part 1</td>
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<td>EMT175</td>
<td>Introduction to Emergency Medical Service</td>
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<td>ES172</td>
<td>Introduction to Emergency Services</td>
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<td>HM120</td>
<td>Medical Terminology</td>
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<tr>
<td>WR121</td>
<td>English Composition-Exposition+ (or higher)</td>
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<tr>
<td>Term 2</td>
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<td>BI232</td>
<td>Human Anatomy and Physiology</td>
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<td>EMT152B</td>
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<td>Crisis Intervention</td>
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<tr>
<td>Term 3</td>
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<tr>
<td>BI233</td>
<td>Human Anatomy and Physiology</td>
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<td>COMM111</td>
<td>Fundamentals of Public Speaking</td>
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<td>EMT169</td>
<td>EMT Rescue</td>
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<td>EMT169</td>
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<td>FRP256</td>
<td>Fire Service Rescue Practices</td>
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<td>or</td>
<td>FRP153</td>
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<td>EMT177</td>
<td>Emergency Response Communication/Documentation</td>
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<td>or</td>
<td>EMT177</td>
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<tr>
<td>PSY101</td>
<td>Psychology of Human Relations+ (or higher)</td>
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<tr>
<td>or</td>
<td>PSY101</td>
<td>4</td>
</tr>
<tr>
<td>Term 4</td>
<td></td>
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</tr>
<tr>
<td>CIS101</td>
<td>Introduction to Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CIS101</td>
<td>3</td>
</tr>
<tr>
<td>EMT296</td>
<td>Paramedic, Part 1</td>
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<td>Term 5</td>
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<td>EMT297</td>
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<td>or</td>
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<td>14</td>
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<tr>
<td>HPE295</td>
<td>Health and Fitness for Life</td>
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</tr>
<tr>
<td>or</td>
<td>Health and Fitness for Life</td>
<td>3</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

Employment Skills Training

The Employment Skills Training program provides individuals the opportunity to receive a state-approved Certificate of Completion for an individualized 12-to-44 credit program that leads to skills and knowledge necessary for employment in an occupation or career field. Students who enroll in this short-
term program will receive instruction based on a curriculum personalized for their chosen occupation and their individual abilities, knowledge, and skills. This program may include a combination of classroom and on-the-job experiences. Students can enroll at the beginning of any term of the academic year.

Engineering
(transfer course guideline)
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 Counseling Services 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
(transfer course guideline)
go.chemeketa.edu/english

Oregon's state universities offering Bachelor of Arts and/or Bachelor of Science degrees in English 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 Counseling Services or a Chemeketa 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.

English as a Non-Native Language Program

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 the ESOL office at 503.399.6298 or Advising and Counseling Services at 503.399.5120.

The length of time you will need to complete the program will depend on your skills in each of these areas. Some of these courses can be transferred as electives to other Oregon state colleges and universities. As a student, you are responsible for learning the program requirements of the other school to which you plan to transfer.

Many of these classes are also offered on a non-credit basis. Contact the ESOL office at 503.399.6298 for more information.

The courses below are designed to help students improve their English skills. They do not lead to a certificate or degree.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL031G</td>
<td>ESL Intermediate Grammar 1..................</td>
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<tr>
<td>ENL032G</td>
<td>ESL Intermediate Grammar 2..................</td>
<td>3</td>
</tr>
<tr>
<td>ENL041G</td>
<td>Introduction to College Grammar 1...........</td>
<td>3</td>
</tr>
<tr>
<td>ENL042G</td>
<td>Introduction to College Grammar 2...........</td>
<td>3</td>
</tr>
<tr>
<td>ENL031L</td>
<td>Intermediate Listening 1....................</td>
<td>3</td>
</tr>
<tr>
<td>ENL031S</td>
<td>Intermediate Speaking 1.....................</td>
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</tr>
<tr>
<td>ENL032L</td>
<td>Intermediate Listening 2....................</td>
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</tr>
<tr>
<td>ENL032S</td>
<td>Intermediate Speaking 2.....................</td>
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<tr>
<td>ENL040A</td>
<td>Introduction to Academic Listening and Speaking</td>
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</tr>
<tr>
<td>ENL150A</td>
<td>Academic Listening and Speaking.............</td>
<td>3</td>
</tr>
<tr>
<td>ENL041P</td>
<td>Basic English Pronunciation 1...............</td>
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</tr>
<tr>
<td>ENL032P</td>
<td>Basic English Pronunciation 2...............</td>
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</tr>
<tr>
<td>ENL041P</td>
<td>Introduction to English Pronunciation 1.....</td>
<td>3</td>
</tr>
<tr>
<td>ENL042P</td>
<td>Introduction to English Pronunciation 2.....</td>
<td>3</td>
</tr>
<tr>
<td>ENL151P</td>
<td>Advanced English Pronunciation 1.............</td>
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<tr>
<td>ENL152P</td>
<td>Advanced English Pronunciation 2.............</td>
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<tr>
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<tr>
<td>ENL032R</td>
<td>ESL Intermediate Reading 2..................</td>
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<tr>
<td>ENL041R</td>
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</tr>
<tr>
<td>ENL042R</td>
<td>Introduction to College Reading 2...........</td>
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<tr>
<td>ENL151R</td>
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<td>ENL152R</td>
<td>ENL College Reading 2.......................</td>
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<td>ENL033T</td>
<td>Technology for ESL.........................</td>
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<td>ENL031W</td>
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</tr>
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<td>ENL041W</td>
<td>Introduction to College Writing 1...........</td>
<td>3</td>
</tr>
<tr>
<td>ENL042W</td>
<td>Introduction to College Writing 2...........</td>
<td>3</td>
</tr>
<tr>
<td>ENL151W</td>
<td>ENL College Writing 1.......................</td>
<td>3</td>
</tr>
<tr>
<td>ENL152W</td>
<td>ENL College Writing 2.......................</td>
<td>3</td>
</tr>
</tbody>
</table>

Fire Protection Technology Programs

The Fire Protection program offers career training in Fire Suppression and Fire Prevention. Both programs include training and education for those entering the career field and for those already employed. 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.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes
Students completing the Fire Suppression AAS will:
- 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

Students completing the Fire Prevention AAS will:
- 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 will:
- 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

Getting started
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 the department staff. You may need to complete pre-program courses. Then, fire program faculty will help you develop an individualized program of study.

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 503.399.5163.

Fire Suppression Associate of Applied Science
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.

This program has special admission requirements and enrollment limits. Applications are accepted every nine months. For additional information, call 503.399.5163. The program operates year-round, including summer term.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $2,472; class fees, $203; universal fee, $1,470; equipment and supplies, $850. 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 all courses.

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<thead>
<tr>
<th>Course Term 1</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EMT151</td>
<td>Emergency Medical Technician, Part 1</td>
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<tr>
<td>FRP150</td>
<td>Introduction to Fire Protection</td>
<td>3</td>
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<tr>
<td>or</td>
<td>ES172</td>
<td>Introduction to Emergency Services</td>
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<tr>
<td>FRP151</td>
<td>Fire Incident Related Experience 1</td>
<td>3</td>
</tr>
<tr>
<td>FRP157</td>
<td>Hazardous Materials Operations</td>
<td>3</td>
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<tr>
<td>MTH095</td>
<td>Intermediate Algebra+ (or higher)</td>
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Term 2
<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CIS101</td>
<td>Introduction to Microcomputer Applications (or higher)</td>
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<tr>
<td>EMT152B</td>
<td>Emergency Medical Technician, Part 2</td>
</tr>
<tr>
<td>FRP152</td>
<td>Fire Incident Related Experience 2</td>
</tr>
<tr>
<td>FRP266</td>
<td>Building Construction for Fire Suppression</td>
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<tr>
<td>PH111</td>
<td>Physical Science for Fire Science and Emergency Services (or higher)</td>
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Term 3
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<tr>
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<tr>
<td>CH110</td>
<td>Foundations of General, Organic, and Biochemistry</td>
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<td>FRP153</td>
<td>Fire Incident Related Experience 3</td>
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<td>FRP154</td>
<td>Water Supply Operations</td>
</tr>
<tr>
<td>FRP158</td>
<td>Fire Pump Construction and Operation</td>
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<td>FRP169</td>
<td>Fire Department Leadership</td>
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Term 4
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>FRP260</td>
<td>Fundamentals of Fire Prevention</td>
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<tr>
<td>FRP261</td>
<td>Fire Incident Related Experience 4</td>
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<tr>
<td>HPE295</td>
<td>Health and Fitness for Life</td>
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<tr>
<td>SOC204</td>
<td>The Sociological Perspective</td>
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<td>SOC205</td>
<td>United States Society</td>
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<td>SOC206</td>
<td>Social Problems</td>
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<tr>
<td>WR121</td>
<td>English Composition-Exposition+ (or higher)</td>
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Term 5
<table>
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<tbody>
<tr>
<td>COMM115</td>
<td>Introduction to Intercultural Communication</td>
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<tr>
<td>FRP172</td>
<td>International Fire Codes</td>
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<tr>
<td>FRP256</td>
<td>Fire Service Rescue Practices</td>
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<tr>
<td>FRP262</td>
<td>Fire Incident Related Experience 5</td>
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Term 6
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<tr>
<td>FRP171</td>
<td>Fire Protection Systems and Extinguishers</td>
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<tr>
<td>FRP179</td>
<td>Wildland Urban Interface</td>
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<tr>
<td>FRP263</td>
<td>Fire Incident Related Experience 6</td>
</tr>
<tr>
<td>PSY101</td>
<td>Psychology of Human Relations+ (or higher)</td>
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<tr>
<td>WR227</td>
<td>Technical Writing</td>
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*Fire Suppression electives:
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<td>BI231</td>
<td>Human Anatomy and Physiology</td>
</tr>
<tr>
<td>BI232</td>
<td>Human Anatomy and Physiology</td>
</tr>
<tr>
<td>BI233</td>
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</tr>
<tr>
<td>BLD151</td>
<td>Building Codes 1</td>
</tr>
<tr>
<td>BLD152</td>
<td>Building Codes 2</td>
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<td>EMT167A</td>
<td>Emergency Medical Technician Intermediate, Part 1</td>
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<td>EMT167B</td>
<td>Emergency Medical Technician Intermediate, Part 2</td>
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<td>EMT175</td>
<td>Introduction to Emergency Medical Services</td>
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<tr>
<td>EMT280F</td>
<td>Cooperative Work Experience</td>
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<tr>
<td>ES115</td>
<td>Crisis Intervention</td>
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<tr>
<td>FRP160</td>
<td>Incident Safety Officer</td>
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<td>FRP161</td>
<td>Fire Management Practices</td>
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<tr>
<td>FRP162</td>
<td>Managing Fire Personnel</td>
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<tr>
<td>FRP163</td>
<td>Planning Fire Protection</td>
</tr>
<tr>
<td>FRP164</td>
<td>Fire Department Budgets</td>
</tr>
<tr>
<td>FRP165</td>
<td>Public Relations, Public Information, and Public Education</td>
</tr>
<tr>
<td>FRP166</td>
<td>Firefighter’s Law</td>
</tr>
<tr>
<td>FRP170</td>
<td>Fire Fighting Tactics and Strategies</td>
</tr>
<tr>
<td>FRP173</td>
<td>Law for Emergency Services</td>
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<td>FRP174</td>
<td>Fire Investigation</td>
</tr>
<tr>
<td>FRP175</td>
<td>Crash/Rescue for Non-Commercial Aircraft</td>
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<tr>
<td>FRP259</td>
<td>Major Emergency Strategy and Tactics</td>
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<td>FRP277</td>
<td>NFPA Fire Instructor 1</td>
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<td>FRP278</td>
<td>NFPA Fire Instructor 2</td>
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<td>FRP286</td>
<td>Advanced Detection and Protection Systems</td>
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<td>HE262</td>
<td>Cardiopulmonary Resuscitation</td>
</tr>
<tr>
<td>HM120</td>
<td>Medical Terminology</td>
</tr>
</tbody>
</table>

**Fire Prevention Associate of Applied Science**

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.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $2,263; class fees, $534; universal fee, $1,442; equipment and supplies, $25. 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 103 credit hours with a grade of “C” or better in all courses. For information call 503.399.6241.
Fire Service Supervision and Management Certificate of Completion

The Fire Service Supervision and Management program 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’s 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.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,219; class fees, $80; universal fee, $784; equipment and supplies, $120. 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 56 credit hours with a grade of “C” or better in all courses.

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<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<td>Term 1</td>
<td><strong>FRP169</strong> Fire Department Leadership</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>FRP173</strong> Law for Emergency Services</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or <strong>FRP166</strong> Firefighter’s Law</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>FRP174</strong> Fire Investigation</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>FRP288</strong> Fire Prevention Education Programs</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>FRP154</strong> Water Supply Operations</td>
<td>3</td>
</tr>
<tr>
<td>Term 2</td>
<td><strong>FRP154</strong> Water Supply Operations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>FRP277</strong> NFPA Fire Instructor 1</td>
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<td></td>
<td><strong>FRP277</strong> NFPA Fire Instructor 1</td>
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<td></td>
<td><strong>FRP277</strong> NFPA Fire Instructor 1</td>
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<tr>
<td></td>
<td><strong>FRP278</strong> Building Construction for Fire Suppression</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>FRP164</strong> Fire Department Budgets</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>FRP165</strong> Public Relations, Public Information, and Public Education</td>
<td>3</td>
</tr>
<tr>
<td>Term 3</td>
<td><strong>BA214</strong> Business Communications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>WR060</strong> Introduction to Technical Writing 1 (or higher)</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>WR115</strong> Introduction to Composition (or higher)</td>
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<tr>
<td></td>
<td><strong>WR121</strong> English Composition-Exposition (or higher)</td>
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</tr>
<tr>
<td></td>
<td><strong>WR227</strong> Technical Writing</td>
<td>4</td>
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</table>
**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
or Any combination of one Chemistry and one Physics course of at least four credit hours each, which include a lab component.

**Foreign Languages**
(transfer course guideline)
Chemeketa offers instruction in first-year (introductory) and second-year (intermediate) American Sign Language, French, Japanese, Russian, and Spanish. 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 Counseling Services or a Chemeketa 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**
See Biology.

**General Studies**
(transfer course guideline)
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 Counseling Services or a Chemeketa 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.

**Geography**
(transfer course guideline)
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 (Earth Science).

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 Counseling Services or a Chemeketa 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.

**Geomatics and Engineering Technology Program**
civil.chemeketa.edu
The Geomatics and Engineering Technology program offers a one-year Certificate of Completion. The one-year certificate program prepares the student for entry-level surveying and drafting positions. Curricula include courses and field experiences in drafting and surveying. All credits apply toward the Associate of Applied Science degree in CAD Drafting Technology.

Total required credit may vary due to the college's ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

**Program outcomes**
**Students completing the certificate will:**
- Apply skills and attitudes that reflect professional behavior in the field and office
- Work as a member of a team to set up and operate surveying equipment to gather data for site plans
- Perform basic survey calculations
Getting started

The first step to entering this program is to take part in an assessment process, which includes taking the college’s free placement test. The second step is to discuss your scores with the Advising and Counseling Services staff. Next, see a Geomatics and Engineering Technology program advisor. If your scores show you need pre-program classes, your advisor will help you determine if you need one or more of the following:

- CA121A Keyboarding A (if less than 25 wpm).............. 1
- CIS101 Introduction to Microcomputer Applications ........ 3
- MTH070 Elementary Algebra.................................. 4
- RD090 College Textbook Reading............................ 3
- WR080 Basic Writing........................................... 4

If you have questions about the requirements, contact Geomatics and Engineering Technology faculty at 503.399.5069. Failure to be assessed may delay your entry into program classes.

Geomatics and Engineering Technology

Survey Technology Certificate of Completion

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $700; class fees, $250; universal fee, $700; equipment and supplies, $400. 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 50 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>CVL130</td>
<td>Work Zone Safety and First Aid</td>
<td>1</td>
</tr>
<tr>
<td>CVL143</td>
<td>Introduction to Civil Survey</td>
<td>3</td>
</tr>
<tr>
<td>DRF110</td>
<td>Applied Engineering Computations</td>
<td>2</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>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>WR060</td>
<td>Introduction to Technical Writing 1+</td>
<td>3</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td><strong>Term 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CVL144</td>
<td>Intermediate Civil Survey</td>
<td>3</td>
</tr>
<tr>
<td>DRF131</td>
<td>CAD 2</td>
<td>3</td>
</tr>
<tr>
<td>DRF220</td>
<td>GIS 1</td>
<td>2</td>
</tr>
<tr>
<td>GEG105</td>
<td>Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td>MTH082</td>
<td>Technical Mathematics 2</td>
<td>4</td>
</tr>
<tr>
<td>MTH112</td>
<td>Trigonometry (or higher)</td>
<td>5</td>
</tr>
<tr>
<td><strong>Term 3</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CVL162A</td>
<td>Plane Surveying 2-Lecture</td>
<td>2</td>
</tr>
<tr>
<td>CVL162B</td>
<td>Plane Surveying 2-Lab</td>
<td>2</td>
</tr>
<tr>
<td>DRF132</td>
<td>CAD 3</td>
<td>3</td>
</tr>
<tr>
<td>DRF160</td>
<td>Spreadsheet and Database Applications</td>
<td>3</td>
</tr>
<tr>
<td>DRF221</td>
<td>GIS 2</td>
<td>3</td>
</tr>
<tr>
<td>PSY104</td>
<td>Psychology in the Workplace+</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

Health, Health Education

(transfer course guideline)

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 (EOU), Oregon State University (OSU), Portland State University (PSU), Southern Oregon University (SOU) and Western Oregon University (WOU). 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 Counseling Services 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

As a graduate of the Health Information Management two-year program, 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 Health Information Management program curriculum focuses on four areas: applied science; the U.S. health care delivery system; business, and health management; and general education courses.

You may transfer to a four-year institution to continue coursework in public health administration or health care administration. The combination of career and technical education courses and transfer courses will give you a wide variety of options.
To be eligible for practicum, you must complete all HM and BI classes offered in terms 1 through 5 and be eligible for graduation. You must pass a criminal background check prior to practicum placement. Health care institutions may also require drug tests, CPR certification, and/or specific immunizations before a student can be placed at the facility for externship, practicum, or cooperative work experience.

For admission to the program, an application is required. This is a separate step from the testing and assessment process. Applications are available in Advising and Counseling Services, at the Enrollment Center, in program offices, and on the web at www.chemeketa.edu. Total required credit may vary due to the college's ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes
Students completing the Health Information Management AAS will:

- 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

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 Advising and Counseling Services. You may need to complete pre-program courses. Then, your advisor will help you develop an individualized program of study, which may include one or more of the following:

- AH115 Healthcare Career Success Strategies
- CIS101 Introduction to Microcomputer Applications
- FYE105 Creating College Success
- HM120 Medical Terminology
- MTH060 Introductory Algebra
- RD090 College Textbook Reading (or higher)
- WR115 Introduction to Composition (or higher)

If you have questions about the requirements, contact Advising and Counseling Services at 503.399.5120 or 503.399.5058. Failure to be assessed may delay your entry into program classes.

Health Information Management Associate of Applied Science
In addition to tuition, estimated costs for students who complete the entire second year listed below are books, $2,486; class fees, $135; universal fee, $1,330; equipment and supplies, $15; 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.

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. If you have completed or are 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.

<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>BI171</td>
<td>Introduction to Human Anatomy and Physiology 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>BI231</td>
<td>Human Anatomy and Physiology</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>HM101</td>
<td>Medical Law and Ethics</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>HM112</td>
<td>Health Information Systems and Procedures</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>HM121</td>
<td>Medical Terminology 2</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>HM150</td>
<td>Professional Development for Health Management</td>
</tr>
<tr>
<td>Term 2</td>
<td>BI172</td>
<td>Introduction to Human Anatomy and Physiology 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>BI232</td>
<td>Human Anatomy and Physiology</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>HM113</td>
<td>Health Financing, Insurance, and Reimbursement</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>HM122</td>
<td>Medical Terminology 3/Human Diseases</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>WR121</td>
<td>English Composition-Exposition+ (or higher)</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>General Education elective*</td>
<td>3</td>
</tr>
<tr>
<td>Term 3</td>
<td>HM115</td>
<td>ICD-10-CM Coding/Diagnosis</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>HM161</td>
<td>Computer Technology and Systems for Health Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MTH070</td>
<td>Elementary Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>WR227</td>
<td>Technical Writing</td>
<td>4</td>
</tr>
</tbody>
</table>
The Hemodialysis Technician program prepares the graduate 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. Practica 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 and lifting and handling objects weighing 10 to 50 pounds. Technicians often stand for long periods of time. To qualify for the program, students must have a high school diploma or GED certificate, along with CPR and basic first aid certification.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

**Program outcomes**

**Students completing the Certificate will:**
- 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 CPR and first aid certification.
- Be prepared to sit for national certification as a Certified Clinical Hemodialysis Technician (CCHT).

**Getting started**

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 Advising and Counseling Services. You may need to complete pre-program courses. Then, your advisor will help you develop an individualized program of study, which may include one or more of the following:

- MTH020 Basic Mathematics
- WR080 Basic Writing

If you have questions about the requirements, call Counseling and Career Services at 503.399.5120 or 503.399.6071. 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 entire program listed below are books, $750; materials, supplies, and class fees, $450; universal fee, $686; criminal background check and drug testing, $50; CPR and first aid certification, $69; immunizations, $250; scrubs, $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.

You may earn a Certificate of Completion by successfully completing the required 49 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>CIS101</td>
<td>Introduction to Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>HEM101</td>
<td>Hemodialysis Technology 1</td>
<td>8</td>
</tr>
<tr>
<td>HM120</td>
<td>Medical Terminology 1</td>
<td>3</td>
</tr>
<tr>
<td>WR090</td>
<td>Fundamentals of Writing+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td><strong>Term 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEM102</td>
<td>Hemodialysis Technology 2</td>
<td>8</td>
</tr>
<tr>
<td>HM121</td>
<td>Medical Terminology 2</td>
<td>3</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td><strong>Term 3</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEM103</td>
<td>Hemodialysis Technology 3</td>
<td>8</td>
</tr>
<tr>
<td>PSY104</td>
<td>Psychology in the Workplace+</td>
<td>4</td>
</tr>
<tr>
<td>NFM225</td>
<td>Nutrition</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.
History
(transfer course guideline)

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 Counseling Services or a Chemeketa 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

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 and on-site wetlands management laboratory area in which students will acquire hands-on training in the basic knowledge and technical skills required for successful employment in a variety of positions in the horticulture industry.

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 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

The Horticulture program prepares students for occupations in greenhouse and nursery production, propagation, or plant protection as managers, crew leaders, inventory controllers, irrigation specialists, and plant sales or customer service representatives. The program offers a two-year Associate of Applied Science (AAS) degree.

For more information about the program, contact Gail Gredler at 503.365.4692

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes

Students completing the Horticulture AAS will:
• Perform skills and use equipment necessary to propagate, transplant, fertilize, irrigate, prune, and otherwise regulate growth of plants produced in the nursery and greenhouse
• Recognize, name, and understand management requirements for plants commonly grown in the Oregon nursery and greenhouse industry and their associated pests
• Demonstrate knowledge of government regulations related to nursery and greenhouse operations, workplace safety, water regulations, pesticide safety, and crop sanitation requirements to effectively manage a nursery or greenhouse
• Evaluate production practices in terms of currently understood principles of sustainability

Getting started

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 Advising and Counseling Services. You may need to complete pre-program courses. Then, your advisor will help you develop an individualized program of study, which may include one or more of the following:

CA121A Keyboarding A (if less than 25 wpm)............. 1
MTH060 Introductory Algebra........................................ 4
SSP112 Effective Learning............................................. 3
WR115 Introduction to Composition........................... 4

If you have questions about the requirements, call Counseling and Career Services at 503.399.5120 or 503.399.6071. Failure to be assessed may delay your entry into program classes.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $2,975; class fees, $451; universal fee, $1,358. 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 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></td>
<td></td>
</tr>
<tr>
<td>BI153</td>
<td>Fundamentals of Plant Biology</td>
<td>4</td>
</tr>
<tr>
<td>CIS101</td>
<td>Introduction to Microcomputer Applications (or higher)</td>
<td></td>
</tr>
<tr>
<td>HOR111</td>
<td>Introduction to Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Term 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOR211</td>
<td>Plant Propagation</td>
<td>4</td>
</tr>
<tr>
<td>HOR260</td>
<td>Soils, Media, and Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>MTH070</td>
<td>Elementary Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY104</td>
<td>Psychology in the Workplace+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Topics in Ecological Horticulture**</td>
<td>2</td>
</tr>
<tr>
<td>Term 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking (or higher)</td>
<td>4</td>
</tr>
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<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>COMM115</td>
<td>Introduction to Intercultural Communication (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>HOR221</td>
<td>Nursery Production and Management</td>
<td>3</td>
</tr>
<tr>
<td>HOR236</td>
<td>Integrated Pest Management: Weeds</td>
<td>3</td>
</tr>
<tr>
<td>WR227</td>
<td>Technical Writing (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Term 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOR113</td>
<td>Mathematical Applications in Horticulture</td>
<td>2</td>
</tr>
<tr>
<td>HOR237</td>
<td>Integrated Pest Management: Insects and Diseases</td>
<td></td>
</tr>
<tr>
<td>SPN111</td>
<td>Beginning Spanish Conversation Term 1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Horticulture elective*</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Topics in Ecological Horticulture**</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Plant Identification course***</td>
<td>3</td>
</tr>
</tbody>
</table>
### Hospitality Management Programs

See also Tourism and Travel Management.

go.chemeketa.edu/hospitality

Program courses are delivered entirely online.

The Hospitality Management curriculum focuses on the management aspects of Oregon's fastest-growing industry: hospitality. The program covers lodging, meeting, event, and convention management; food and beverage; and resort management. Upon graduation, students may enter the hospitality industry working in such areas as hotel marketing, sales and operations, innkeeping, meeting, convention and special event planning, restaurant management, catering and banquet operations, and lodging staff.

The intent of the program is for students with an Associate of Applied Science degree and one-year certificate to obtain entry-level management positions within the hospitality industry. Students will also be advised on opportunities to continue their education by working toward a four-year degree in hospitality management through other universities.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

### Program Outcomes

**Students completing the Event Management Certificate will:**
- Organize and manage a special event or meeting utilizing appropriate operational coordination
- Coordinate critical and unique impacts of the hospitality and tourism industry on event planning
- Formulate a marketing plan to promote and/or sell an event

**Students completing the Hospitality Management Certificate will:**
- Apply marketing and sales principles in the hospitality industry
- Establish the guest-host relationship inherent to the hospitality industry
- Use cost control terms and techniques to review hospitality operations

**Students completing the AAS will:**
- Design a strategic marketing plan
- Apply quality guest service standards to deliver competitive guest experiences to diverse cultural groups
- Analyze hospitality industry functions, their operations requirements and revenue impacts
- Describe techniques for maximizing hiring, training, development and retention of hospitality employees

### Getting started

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 Advising and Counseling Services. You may need to complete pre-program courses. 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</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA121A</td>
<td>Keyboarding A (if less than 25 wpm)</td>
<td>1</td>
</tr>
<tr>
<td>CIS101</td>
<td>Introduction to Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>RD115</td>
<td>Academic Thinking and Reading</td>
<td>3</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra</td>
<td>4</td>
</tr>
<tr>
<td>SSP112</td>
<td>Effective Learning</td>
<td>3</td>
</tr>
<tr>
<td>WR115</td>
<td>Introduction to Composition</td>
<td>4</td>
</tr>
</tbody>
</table>

If you have questions about the requirements, contact Advising and Counseling Services at 503.399.5120 or Hospitality Management program staff at 503.584.7540. Failure to be assessed may delay your entry into program classes.
Hospitality Management

Event Management Certificate of Completion

The Event Management Certificate prepares students for direct employment in meeting and event planning for conventions, special events such as weddings or parties, and corporate meetings. Students will 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.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,072; class fees, $70; universal fee, $644. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

A Certificate of Completion is awarded upon successful completion of the required 46 credit hours with a grade of “C” or better in all Hospitality and Tourism Management (HTM) courses.

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>HTM100</td>
<td>Hospitality and Tourism Industry ..........</td>
<td>3</td>
</tr>
<tr>
<td>HTM131</td>
<td>Customer Service Management 1 ...........</td>
<td>3</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra+ (or higher) ........</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+ (or higher)</td>
<td>4</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTM103</td>
<td>Service Marketing: Fundamentals ..........</td>
<td>3</td>
</tr>
<tr>
<td>HTM109</td>
<td>Front Desk Operations ....................</td>
<td>3</td>
</tr>
<tr>
<td>HTM143</td>
<td>Computer Reservation Systems 1 ...........</td>
<td>3</td>
</tr>
<tr>
<td>PSY104</td>
<td>Psychology in the Workplace+ (or higher)</td>
<td>4</td>
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<tr>
<td></td>
<td>Hospitality Management elective* .........</td>
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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>COMM218</td>
<td>Interpersonal Communication (or higher)</td>
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<tr>
<td>HTM107</td>
<td>Hospitality Cost Control .......</td>
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</tr>
<tr>
<td>HTM127</td>
<td>Selling in Hospitality and Tourism .......</td>
<td>3</td>
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<tr>
<td>HTM130</td>
<td>Beverages ..................................</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Hospitality Management elective* .........</td>
<td>3</td>
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</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

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 Advising and Counseling Services. You may need to complete pre-program courses. 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</th>
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<td>CA121A</td>
<td>Keyboarding A (if less than 25 wpm) ..........</td>
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<td>CIS101</td>
<td>Introduction to Microcomputer Applications ....</td>
<td>3</td>
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<tr>
<td>RD115</td>
<td>Academic Thinking and Reading ..............</td>
<td>3</td>
</tr>
<tr>
<td>SSP112</td>
<td>Effective Learning ................................</td>
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</tr>
<tr>
<td>WR115</td>
<td>Introduction to Composition ..................</td>
<td>4</td>
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</tbody>
</table>

If you have questions about the requirements, contact Advising and Counseling Services at 503.399.5120 or Hospitality Management program staff at 503.584.7540. Failure to be assessed may delay your entry into program classes.

Hospitality Management Certificate of Completion

The Hospitality Management Certificate focuses on hospitality industry careers related to hotel operations, marketing and sales; meeting, convention or special event planning; catering and banquet operations; or casino supervision. The certificate prepares students for direct entry into the workforce or offers the ability to continue their education into the Hospitality Management Associate of Applied Science degree program.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,072; class fees, $70; universal fee, $644. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

A Certificate of Completion is awarded upon successful completion of the required 30 credit hours with a grade of “C” or better in all Hospitality and Tourism Management (HTM) courses.

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<th>Course</th>
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<tbody>
<tr>
<td>HTM100</td>
<td>Hospitality and Tourism Industry ..........</td>
<td>3</td>
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<tr>
<td>HTM131</td>
<td>Customer Service Management 1 ...........</td>
<td>3</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra+ (or higher) ........</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+ (or higher)</td>
<td>4</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTM103</td>
<td>Service Marketing: Fundamentals ..........</td>
<td>3</td>
</tr>
<tr>
<td>HTM109</td>
<td>Front Desk Operations ....................</td>
<td>3</td>
</tr>
<tr>
<td>HTM143</td>
<td>Computer Reservation Systems 1 ...........</td>
<td>3</td>
</tr>
<tr>
<td>PSY104</td>
<td>Psychology in the Workplace+ (or higher)</td>
<td>4</td>
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<tr>
<td></td>
<td>Hospitality Management elective* .........</td>
<td>3</td>
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</tbody>
</table>
**Hospitality Management electives:**

- HTM105 Food and Beverage Industry .......................... 3
- HTM114 Travel Destination Geography 1 .................... 3
- HTM115 Travel Destination Geography 2 .................... 3
- HTM116 Travel Destination Geography 3 .................... 3
- HTM125 Special Event Planning ................................ 3
- HTM143 Computer Reservation Systems 1 ................. 3
- HTM201 Customer Service Management 2 ................. 3
- HTM203 Service Marketing: Promotion and Advertising ... 3
- HTM206 Resort Management ................................... 3
- HTM207 Gourmet Culture ...................................... 3
- HTM208 Attractions and Entertainment ...................... 3
- HTM224 Catering Operations ................................. 3
- HTM226 Event Management ..................................... 3
- HTM232 Menu Design .......................................... 3
- HTM233 Strategies in Tourism and Destination Marketing . 3
- HTM235 Leadership in Tourism ................................. 3
- HTM236 Tour Operations ....................................... 3
- HTM237 Tourism Transportation: Cruise, Air, Rail ....... 3

**Hospitality Management Associate of Applied Science**

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,767; class fees, $140; universal fee, $1,288. 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 92 required credit hours with a grade of "C" or better in all Hospitality and Tourism Management (HTM) courses.

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<th>Credit Hours</th>
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<td>Term 1</td>
<td>HTM100 Hospitality and Tourism Industry ................ 3</td>
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<td>Term 1</td>
<td>HTM131 Customer Service Management 1 .................. 3</td>
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<tr>
<td>Term 1</td>
<td>MTH060 Introductory Algebra+ (or higher) .............. 4</td>
<td></td>
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<tr>
<td>Term 2</td>
<td>WR121 English Composition-Exposition+ (or higher) .... 4</td>
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<tr>
<td>Term 2</td>
<td>COMM218 Interpersonal Communication (or higher) .... 4</td>
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<td>HTM103 Service Marketing: Fundamentals ................ 3</td>
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<td>Term 2</td>
<td>HTM105 Food and Beverage Industry ....................... 3</td>
<td></td>
</tr>
<tr>
<td>Term 2</td>
<td>HTM109 Front Desk Operations ............................. 3</td>
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</tr>
<tr>
<td>Term 2</td>
<td>HTM143 Computer Reservation Systems 1 .................. 3</td>
<td></td>
</tr>
<tr>
<td>Term 3</td>
<td>HTM107 Hospitality Cost Control .......................... 3</td>
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<td>HTM127 Selling in Hospitality and Tourism .............. 3</td>
<td></td>
</tr>
<tr>
<td>Term 3</td>
<td>HTM130 Beverages ............................................. 3</td>
<td></td>
</tr>
<tr>
<td>Term 4</td>
<td>HTM224 Catering Operations ............................... 3</td>
<td></td>
</tr>
<tr>
<td>Term 4</td>
<td>HTM226 Event Management .................................... 3</td>
<td></td>
</tr>
<tr>
<td>Term 4</td>
<td>HTM232 Menu Design .......................................... 3</td>
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<tr>
<td>Term 4</td>
<td>NFM215 Nutrition for Foodservice and Culinary Professionals .......... 3</td>
<td></td>
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<tr>
<td>Term 4</td>
<td>WR227 Technical Writing ..................................... 4</td>
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</tr>
</tbody>
</table>

**Term 5**

- HTM201 Customer Service Management 2 .................. 3
- HTM206 Resort Management ................................... 3
- HTM207 Gourmet Culture ...................................... 3
- HTM230 Hotel, Restaurant, and Travel Law ............... 3
- PSY104 Psychology in the Workplace+ (or higher) ...... 4

**Term 6**

- HTM125 Special Event Planning ................................ 3
- HTM203 Service Marketing: Promotion and Advertising ... 3
- HTM223 Computer Reservation Systems 2 .................. 3
- HTM244 Practicum 1-Hospitality and Tourism Management ........................................ 4
- HTM290 Operations Management .............................. 3

**Hospitality Management electives:**

- HTM114 Travel Destination Geography 1 .................... 3
- HTM115 Travel Destination Geography 2 .................... 3
- HTM116 Travel Destination Geography 3 .................... 3
- HTM208 Attractions and Entertainment ...................... 3
- HTM233 Strategies in Tourism and Destination Marketing . 3
- HTM235 Leadership in Tourism ................................. 3
- HTM236 Tour Operations ....................................... 3
- HTM237 Tourism Transportation: Cruise, Air, Rail ....... 3

**Human Services Programs**

[go.chemeketa.edu/humanservices](go.chemeketa.edu/humanservices)

The Human Services programs offer training for entry-level positions in human service agencies. The two-year degree programs combine academic coursework with 25 credits of supervised field work at two different sites, each of which is at least two terms long. Students select one of two degrees: Addiction Studies or Social Services.

These programs have special admissions requirements and enrollment limits. Students with criminal histories may be prevented from obtaining necessary field experience required for program completion. Parole and probation requirements must be completed prior to referral to a practicum site. Students recovering from chemical dependency who elect the Addiction Studies AAS degree must have a minimum of two years continuous sobriety in an unrestricted environment before they will be referred to practicum. For additional information, contact the Admissions Office at 503.399.5006.

Post B.A./B.S. students are also eligible to complete the Addiction Counselor Certification Preparation program and earn a one-year certificate. Admission to the certificate program is assessed individually by Wanda Urban, 503.399.6154. Students recovering from chemical dependency must have a minimum of two years continuous sobriety in an unrestricted environment in order to be referred to practicum. Criminal history and parole/probation limitations apply to students in this program as well.

The Human and Social Services Non-Traditional Health Worker (NTHW) certificate program is designed to meet the advanced education and training needs of individuals interested in employment in non-traditional health care, roles which have been identified by the Oregon Legislature as critical for bridging the
gap for those citizens needing individualized assistance in accessing and using community resources, managing metabolic disease, and navigating the healthcare system.

Additionally, an Award of Participation may be earned by taking only HS171 Non-Traditional Health Worker, and HE251 Community Health. Contact Yolanda Martinez, 503.399.6236, for additional information about the NTHW certificate program and the Award of Participation.

By enrolling in the PLP121 Introduction to Prior Learning Portfolio course, you may be able to earn credits for prior learning you acquired through your job, non-credit classes, community or volunteer service, or individual study.

Total required credit may vary due to the college's ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes
Students completing the AAS degrees will:

- Describe the nature of human systems: individual, group, organization, community, and society, and their major interactions
- Describe the conditions that promote or limit optimal functioning and classes of deviations from desired functioning in the major human systems
- Identify and select interventions that promote 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
- Use process skills to plan and implement services

In addition to the AAS outcomes, students completing Addiction Studies AAS and Addiction Counselor Certification Preparation will:

- Describe, identify, assess, and treat addictions

In addition to the AAS outcomes, students completing Social Services AAS will:

- Adapt intervention and assessment skills to a variety of agency settings including, but not limited to: crisis counseling, employment services, children's protective services, self-sufficiency, housing, mental health, corrections, and advocacy

Students completing the Human and Social Services Non-Traditional Health Worker certificate will develop core competencies in the following areas:

- Outreach and Mobilization: Outreach methods; community engagement and outreach and relationship building; communication skills, including cross-cultural communication, active listening, and group and family dynamics; empowerment techniques; knowledge of community resources
- Community and Cultural Liaising: Cultural knowledge/awareness in bridging clinical and community cultures; conflict identification and problem solving; social determinants of health; conducting individual needs assessments; advocacy skills; building partnerships with local agencies and groups
- Case Management, Care Coordination, and System Navigation: Roles and expectations for working in multidisciplinary teams; ethical responsibilities in multicultural contexts; legal responsibilities; paths to recovery; data collection and types of data; organization skills and documentation; crisis identification and intervention; professional conduct; navigating public and private case management, care coordination and system navigation, and health promotion and coaching
- Health Promotion and Coaching: Introduction to disease processes including chronic illnesses, mental health, and addictions; trauma-informed care; health across the lifespan; adult learning principles/teaching and coaching; stages of change; health promotion best practices; self-care; health literacy issues

Getting started
The first step to entering the two-year programs is to take part in an assessment process which includes taking the college's free placement test and meeting with Advising and Counseling Services. You may need to complete pre-program courses. A counselor will help you develop an individualized program of study, which may include one or more of the following:

- HS152 Stress Management ........................................ 1
- MTH020 Basic Mathematics ........................................ 4
- RD090 College Textbook Reading ................................ 3
- WR121 English Composition-Exposition .................. 4

If you have questions about the requirements, contact Advising and Counseling Services at 503.399.5120. Failure to be assessed may delay your entry into program classes.

Addiction Studies Associate of Applied Science
The Addiction Studies AAS degree trains 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 programs are 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.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $3,053; class fees, $231; universal fee, $1,512; equipment and supplies, $253; measles vaccine, $15. 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 108 credit hours with a grade of “C” or better in WR227 and all Human Services courses. Twenty-five credits of practicum are required, at least 15 of which must be in an addiction studies placement; 10 credits can be satisfied at a social services placement.
Addiction Studies

Addiction Counselor Certification Preparation Certificate of Completion

This one-year 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 addiction treatment. This certificate prepares students to take the Oregon Level I Certified Alcohol and Drug Counselors (CADC) exam.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,684; class fees, $105; universal fee, $714; equipment and supplies, $210; measles vaccine, $15. 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 51 credit hours with a grade of “C” or better in all Human Services courses and a minimum of 15 credits of practicum. This program is four terms in length, beginning with spring term. Students interested in this program must attend the winter term orientation or meet personally with Wanda Urban, 503.399.6154, 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</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td></td>
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</tr>
<tr>
<td>HS101</td>
<td>Addiction Pharmacology and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>HS150</td>
<td>Personal Effectiveness for Human Service and Non-Traditional Health Workers</td>
<td>3</td>
</tr>
<tr>
<td>HS154</td>
<td>Community Resources and Advocacy</td>
<td>3</td>
</tr>
<tr>
<td>HS170</td>
<td>Introduction to Practicum</td>
<td>3</td>
</tr>
<tr>
<td>WR227</td>
<td>Technical Writing (or higher)</td>
<td>4</td>
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<tr>
<td>Term 2</td>
<td></td>
<td></td>
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<tr>
<td>CIS101</td>
<td>Introduction to Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>HS260</td>
<td>Group Dynamics</td>
<td>3</td>
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<tr>
<td>HS284A-HS288A</td>
<td>Practicum-Human Services and Non-Traditional Health Workers</td>
<td>4-8</td>
</tr>
<tr>
<td>PSY201</td>
<td>Introduction to Psychology: Mind and Body+</td>
<td>4</td>
</tr>
<tr>
<td>HS211</td>
<td>HIV, TB, and Infectious Diseases</td>
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<td>HS103</td>
<td>Ethics for Human Service and Non-Traditional Health Workers</td>
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<td>HS155</td>
<td>Wellness Coaching, Interviewing, and Advocacy</td>
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<tr>
<td>HS219</td>
<td>Client Records, Case Management, and Care Coordination</td>
<td>3</td>
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<tr>
<td>HS284A-HS288A</td>
<td>Practicum-Human Services and Non-Traditional Health Workers</td>
<td>4-8</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra (or higher)</td>
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<tr>
<td>Term 4</td>
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<td>HS156</td>
<td>Counseling Theories</td>
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<td>HS213</td>
<td>Multicultural Practice</td>
<td>3</td>
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<tr>
<td>HS214</td>
<td>Advanced Interviewing and Counseling Skills</td>
<td>3</td>
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<tr>
<td>HS218A</td>
<td>Group Processes A</td>
<td>1</td>
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<tr>
<td>HS284A-HS288A</td>
<td>Practicum-Human Services and Non-Traditional Health Workers</td>
<td>4-8</td>
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<tr>
<td>PSY239</td>
<td>Introduction to Abnormal Behavior</td>
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<td>Term 5</td>
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<td>COMM111</td>
<td>Fundamentals of Public Speaking</td>
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<td>COMM112</td>
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<td>COMM130</td>
<td>Business and Professional Speaking</td>
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<td>HS216</td>
<td>Clinical Screening, Assessment, and Treatment Planning</td>
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<td>HS217</td>
<td>Group Counseling Skills</td>
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<tr>
<td>HS218B</td>
<td>Group Processes B</td>
<td>1</td>
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<td>HS284A-HS288A</td>
<td>Practicum-Human Services and Non-Traditional Health Workers</td>
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<td>SOC204</td>
<td>The Sociological Perspective</td>
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<tr>
<td>HS201</td>
<td>Addiction and the Family System</td>
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<td>HS209</td>
<td>Co-occurring Disorders</td>
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<td>HS218C</td>
<td>Group Processes C</td>
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<td>HS284A-HS288A</td>
<td>Practicum-Human Services and Non-Traditional Health Workers</td>
<td>4-8</td>
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<tr>
<td>PSY237</td>
<td>Life Span Development</td>
<td>4</td>
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<tr>
<td>SOC205</td>
<td>United States Society</td>
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<tr>
<td>or</td>
<td>Practice Certificate of Completion</td>
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</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.
An Associate of Applied Science degree is awarded upon successful completion of the required 107 credit hours with a grade of “C” or better in WR227 and all Human Services courses. Twenty-five credits of practicum are required.

**Course** | **Title** | **Credit Hours**
--- | --- | ---
**Term 1** | HS150 | Personal Effectiveness for Human Service and Non-Traditional Health Workers 3
| HS154 | Community Resources and Advocacy 3
| HS170 | Introduction to Practicum 3
| PSY201 | Introduction to Psychology: Mind and Body+ 4
| WR227 | Technical Writing+ (or higher) 4
**Term 2** | CIS101 | Introduction to Microcomputer Applications (or higher) 3
| HS129 | Understanding Grief, Loss, and Transition 3
| HS260 | Group Dynamics 3
| HS284S- | Practicum-Human Services and Non-Traditional Health Workers 4-8
| HS288S | Social Services elective* 1

**Social Services Associate of Applied Science**

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 services, housing, mental health, corrections, and advocacy.

The curriculum includes courses in personal growth, interviewing, counseling, assessment, and case management.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $3,440; class fees, $150; universal fee, $1,469; equipment and supplies, $260; measles vaccine, $15. 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 107 credit hours with a grade of “C” or better in WR227 and all Human Services courses. Twenty-five credits of practicum are required.

**Course** | **Title** | **Credit Hours**
--- | --- | ---
**Term 3** | HS101 | Addiction Pharmacology and Physiology 4
| HS103 | Ethics for Human Service and Non-Traditional Health Workers 2
| HS155 | Wellness Coaching, Interviewing, and Advocacy 3
| HS211 | HIV, TB, and Infectious Diseases 1
| HS284S- | Practicum-Human Services and Non-Traditional Health Workers 4-8
| HS288S | Life Span Development 4

**Term 4**

| HS201 | Addiction and the Family System 3
| HS209 | Co-occurring Disorders 2
| HS211 | HIV, TB and Infectious Diseases 1
| HS218C | Group Processes C 1
| HS285A- | Practicum-Human Services and Non-Traditional Health Workers 5-8

**Getting started**

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 Advising and Counseling Services. You may need to complete pre-program courses. A counselor will help you develop an individualized program of study, which may include one or more of the following:

- HS152 | Stress Management 1
- WR121 | English Composition-Exposition 4

If you have questions about the requirements, contact Advising and Counseling Services at 503.399.5120. Failure to be assessed may delay your entry into program classes.
Human and Social Services Non-Traditional Health Worker Certificate of Completion

The Human and Social Services Non-Traditional Health Worker certificate program prepares graduates to work in three emerging roles in the health care field. Community Health Workers, Peer Wellness/Support Specialists, and Health System Navigators have all been identified as critical positions for bridging the gap for those who need individualized assistance to use community resources, manage metabolic disease, and navigate the healthcare system. All students in the program will take a common core of courses, and then branch off into one of two career tracks: Health Services Navigator/Community Health Worker or Peer Wellness/Support Specialist.

Additionally, students may earn an award of participation for completing two courses: HS171 and HE251. At this level, students will be qualified for entry-level positions in the non-traditional health worker field.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,124; class fees, $35; universal fee, $504; equipment and supplies, $160; measles vaccine, $15. 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 36 credit hours (11 credits of the Non-Traditional Health Worker core requirements plus an additional 25 credits in one of the two areas of specialization listed below).

Non-Traditional Health Worker core requirements:

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS150</td>
<td>Personal Effectiveness for Human Service and Non-Traditional Health Workers</td>
<td>3</td>
</tr>
<tr>
<td>HS154</td>
<td>Community Resources and Advocacy</td>
<td>3</td>
</tr>
<tr>
<td>HS171</td>
<td>Non-Traditional Health Worker</td>
<td>5</td>
</tr>
</tbody>
</table>

Plus: Choose one area of specialization

Health Services Navigator/Community Health Worker Specialization

<table>
<thead>
<tr>
<th>Term 2</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HE251</td>
<td>Community Health</td>
<td>3</td>
</tr>
<tr>
<td>HS103</td>
<td>Ethics for Human Service and Non-Traditional Health Workers</td>
<td>2</td>
</tr>
<tr>
<td>HS213</td>
<td>Multicultural Practice</td>
<td>3</td>
</tr>
<tr>
<td>HS266</td>
<td>Case Management, Care Coordination, and Systems Navigation</td>
<td>3</td>
</tr>
</tbody>
</table>

Term 3

<table>
<thead>
<tr>
<th>Term 3</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HE213</td>
<td>Women’s Health</td>
<td>3</td>
</tr>
<tr>
<td>HS223</td>
<td>Aging: Theory to Practice</td>
<td>3</td>
</tr>
<tr>
<td>HS260</td>
<td>Group Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>HS155</td>
<td>Wellness Coaching, Interviewing, and Advocacy</td>
<td>3</td>
</tr>
<tr>
<td>HS158</td>
<td>Trauma Informed Theory, Practice, and Crisis Management</td>
<td>3</td>
</tr>
<tr>
<td>HS285N</td>
<td>Practicum-Human Services and Non-Traditional Health Workers</td>
<td>5</td>
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</table>

Peer Wellness/Support Specialist Specialization

<table>
<thead>
<tr>
<th>Term 2</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HE251</td>
<td>Community Health</td>
<td>3</td>
</tr>
<tr>
<td>HS101</td>
<td>Addiction Pharmacology and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>HS103</td>
<td>Ethics for Human Service and Non-Traditional Health Workers</td>
<td>2</td>
</tr>
<tr>
<td>HS213</td>
<td>Multicultural Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Term 3

<table>
<thead>
<tr>
<th>Term 3</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS155</td>
<td>Wellness Coaching, Interviewing, and Advocacy</td>
<td>3</td>
</tr>
<tr>
<td>HS158</td>
<td>Trauma Informed Theory, Practice, and Crisis Management</td>
<td>3</td>
</tr>
<tr>
<td>HS219</td>
<td>Client Records, Case Management, and Care Coordination</td>
<td>3</td>
</tr>
<tr>
<td>HS284N</td>
<td>Practicum-Human Services and Non-Traditional Health Workers</td>
<td>4</td>
</tr>
</tbody>
</table>

Interactive Media

See Visual Communications Programs.

Journalism

(transfer course guideline)

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.

Students planning to transfer to U of O should consult the U of O catalog for journalism major admission requirements and to determine when to transfer. (This usually is after one year at another college.)

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 Counseling Services or a Chemeketa 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 Programs

These programs offer training in using computer-controllers on CNC machine tools, manual machining tools, and computers as tools in machine tool control inspection (CMM), mechanical design, and engineering.

The Basic Manufacturing Technician serves as a pathway to higher level manufacturing-related training in a wide range of certificate and degree programs, and also 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 will use extended time in machining labs to solve increasingly complex “real world” programming and fixtureing issues. After successful completion, graduates may find employment in the fields of machining/programming and engineering technology.

If you are interested in manufacturing, machining, manual operations, or CNC, contact program chair Sheldon Schnider (sheldon.schnider@chemeketa.edu or 503.589.7875).

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact the program chair or Advising and Counseling staff to ensure that you are on track to meet program requirements.

**Program outcomes**

**Students completing the Basic Manufacturing Technician Certificate will:**
- Analyze and discuss current manufacturing processes.
- Interpret and evaluate blueprints and specifications to determine accuracy.
- Apply workplace rules and safety and environmental standards used in the workplace.
- Identify and use measurement instruments to produce a product.
- Construct a product using industry acceptable manufacturing principles.

**Students completing the CAM Fundamentals Certificate will:**
- 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 the CNC Operator Certificate will:**
- 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 and program CNC machine tools at the machine control level to produce accurately sized parts.
- Apply cutting speeds and feeds to materials used in machining and manufacturing.

**Students completing the Manual Machine Operator Certificate will:**
- Use effective communication skills as a team member.
- Apply basic and precision industry standard measurement practices.
- Set up and operate manual 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) AAS will:**
- 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.

**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 Advising and Counseling Services staff. You may need to complete pre-program courses. 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</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS101</td>
<td>Introduction to Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>MTH020</td>
<td>Basic Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>SSP051</td>
<td>Studying for College</td>
<td>3</td>
</tr>
<tr>
<td>RD090</td>
<td>College Textbook Reading</td>
<td>3</td>
</tr>
<tr>
<td>WR080</td>
<td>Basic Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

If you have questions about the curriculum or the Getting Started classes, please contact program chair Sheldon Schnider at 503.589.7975 (sheldon.schnider@chemeketa.edu); the office of the Dean of Applied Technologies, 503.399.5210; or Advising and Counseling Services at 503.399.5120 or 503.399.5210. Failure to be assessed may delay your entry into program classes.

**Basic Manufacturing Technician Certificate of Completion**

The Basic Manufacturing Technician training covers the basics of machine tool fundamentals, measurement, and basic blueprint reading. Specialty areas for electives include welding, manual machining, and CNC mill operations. As a statewide cooperative effort this program is also offered by other community colleges, including Clackamas, Linn-Benton, Lane, and Portland.

In addition to tuition, estimated costs for students who complete the certificate listed below are books, $215; class fees, $54; universal fee, $224; equipment and supplies, $125. 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 Basic Manufacturing Technician required core of 10 credit hours, plus the additional credits in one area of specialization listed below.
Basic Manufacturing Technician core requirements (10 credit hours):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAM050</td>
<td>Orientation to Manufacturing Processes</td>
<td>2</td>
</tr>
<tr>
<td>CAM100</td>
<td>Blueprint Reading and Sketching</td>
<td>2</td>
</tr>
<tr>
<td>CAM105</td>
<td>Precision Measurement</td>
<td>2</td>
</tr>
<tr>
<td>CAM111</td>
<td>Industrial Safety Seminar</td>
<td>1</td>
</tr>
<tr>
<td>MTH052</td>
<td>Introduction to Algebra and Geometry</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus: Choose one area of specialization

**Welding Specialization**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLD051</td>
<td>Basic Arc Welding</td>
<td>5</td>
</tr>
<tr>
<td>WLD056</td>
<td>Blueprint Reading and Sketching</td>
<td>2</td>
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</tbody>
</table>

**CNC Mill Specialization**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAM110A</td>
<td>CNC/Manual Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>CAM120</td>
<td>CNC/Manual Milling</td>
<td>4</td>
</tr>
</tbody>
</table>

**Machining Specialization**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAM110A</td>
<td>CNC/Manual Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>CAM140</td>
<td>Metallurgy for Manufacturing</td>
<td>2</td>
</tr>
</tbody>
</table>

**Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM)**

**Computer-Aided Manufacturing (CAM) Fundamentals Certificate of Completion**

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 setup and operation of computer-controlled mills and lathes. This certificate may qualify graduates for an entry position in a variety of manufacturing-related jobs.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $569; class fees, $162; universal fee, $270; equipment and supplies, $200. 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 27 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>CAM100</td>
<td>Blueprint Reading and Sketching</td>
<td>2</td>
</tr>
<tr>
<td>CAM105</td>
<td>Precision Measurement</td>
<td>2</td>
</tr>
<tr>
<td>CAM110A</td>
<td>CNC/Manual Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>CAM111</td>
<td>Industrial Safety Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CAM130</td>
<td>CNC Machine Setup/Operation</td>
<td>4</td>
</tr>
<tr>
<td>MTH052</td>
<td>Introduction to Algebra and Geometry</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MTH081</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>MTH111</td>
<td>5</td>
</tr>
</tbody>
</table>

**Term 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAM115</td>
<td>Geometric Dimensioning/Tolerancing</td>
<td>2</td>
</tr>
<tr>
<td>CAM116</td>
<td>Geometric Dimensioning/Tolerancing for CNC-Lab</td>
<td>1</td>
</tr>
<tr>
<td>CAM140</td>
<td>Metallurgy for Manufacturing</td>
<td>2</td>
</tr>
<tr>
<td>MTH053</td>
<td>Introduction to Trigonometry and Geometry</td>
<td>3</td>
</tr>
<tr>
<td>WR060</td>
<td>Introduction to Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Computer Numerically Controlled (CNC) Operator Certificate of Completion**

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 may qualify to work as a CNC machine tool operator or in a variety of manufacturing-related jobs.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $719; class fees, $234; universal fee, $588; equipment and supplies, $200. 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 42 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>CAM100</td>
<td>Blueprint Reading and Sketching</td>
<td>2</td>
</tr>
<tr>
<td>CAM105</td>
<td>Precision Measurement</td>
<td>2</td>
</tr>
<tr>
<td>CAM110A</td>
<td>CNC/Manual Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>CAM111</td>
<td>Industrial Safety Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CAM130</td>
<td>CNC Machine Setup/Operation</td>
<td>4</td>
</tr>
<tr>
<td>MTH052</td>
<td>Introduction to Algebra and Geometry</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MTH081</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>MTH111</td>
<td>5</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>CAM115</td>
<td>Geometric Dimensioning/Tolerancing</td>
<td>2</td>
</tr>
<tr>
<td>CAM116</td>
<td>Geometric Dimensioning/Tolerancing for CNC-Lab</td>
<td>1</td>
</tr>
<tr>
<td>CAM140</td>
<td>Metallurgy for Manufacturing</td>
<td>2</td>
</tr>
<tr>
<td>CAM160</td>
<td>Programming CNC Mills</td>
<td>4</td>
</tr>
<tr>
<td>MTH053</td>
<td>Introduction to Trigonometry and Geometry</td>
<td>3</td>
</tr>
</tbody>
</table>

**Manual Machine Operator Certificate of Completion**

The Manual Machine Operator certificate builds on the training provided in the CAM Fundamentals certificate with an emphasis on machining skills related to the setup and operation of manual machine tools such as drills, mills, lathes, saws, and grinders. Graduates may qualify to work as a machine tool operator, entry-level machinist, or in a variety of manufacturing-related jobs.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAM150</td>
<td>Cutting Tools and Materials</td>
<td>3</td>
</tr>
<tr>
<td>CAM190</td>
<td>Programming CNC Lathes</td>
<td>4</td>
</tr>
<tr>
<td>CAM280D</td>
<td>Cooperative Work Experience</td>
<td>4</td>
</tr>
<tr>
<td>WR060</td>
<td>Introduction to Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>
In addition to tuition, estimated costs for students who complete the entire program listed below are books, $654; class fees, $234; universal fee, $588; equipment and supplies, $200. 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 42 credits with a grade of “C” or better in all courses.

### Course Title Credit Hours

<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>CAM100</td>
<td>Blueprint Reading and Sketching</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CAM105</td>
<td>Precision Measurement</td>
<td>2</td>
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<tr>
<td></td>
<td>CAM110A</td>
<td>CNC/Manual Fundamentals</td>
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<tr>
<td></td>
<td>CAM111</td>
<td>Industrial Safety Seminar</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>CAM130</td>
<td>CNC Machine Setup Operation</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MTH052</td>
<td>Introduction to Algebra and Geometry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MTH081</td>
<td>Technical Mathematics 1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MTH111</td>
<td>College Algebra (or higher)</td>
<td>5</td>
</tr>
<tr>
<td>Term 2</td>
<td>CAM115</td>
<td>Geometric Dimensioning/Tolerancing for CNC-Lab</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CAM116</td>
<td>Geometric Dimensioning/Tolerancing</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CAM120</td>
<td>CNC/Manual Milling</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CAM140</td>
<td>Metallurgy for Manufacturing</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CAM150</td>
<td>Industrial Safety Seminar</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MTH053</td>
<td>Introduction to Trigonometry and Geometry</td>
<td>3</td>
</tr>
<tr>
<td>Term 3</td>
<td>CAM111A</td>
<td>CNC/Manual Lathe</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CAM280D</td>
<td>Cooperative Work Experience</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>WR227</td>
<td>Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>WR121</td>
<td>English Composition-Exposition (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CAM062</td>
<td>Practical Applications</td>
<td>2</td>
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<td></td>
<td>CAM121A</td>
<td>CNC/Manual Lathe</td>
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<tr>
<td></td>
<td>CAM150</td>
<td>Cutting Tools and Materials</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CAM190</td>
<td>Programming CNC Lathes</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>WR060</td>
<td>Introduction to Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>WR121</td>
<td>English Composition-Exposition+ (or higher)</td>
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</tr>
<tr>
<td>Term 4</td>
<td>CAM210A</td>
<td>Production/Assembly Control Methods</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CAM21OB</td>
<td>Production/Assembly Control Methods-Lab</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CAM230</td>
<td>CAM Applications/Mills</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DRF210</td>
<td>Parametric Design with SolidWorks</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PH121</td>
<td>Applied Physics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>PH201</td>
<td>General Physics (or higher)</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>GS104</td>
<td>General Science: Physics</td>
<td>4</td>
</tr>
<tr>
<td>Term 5</td>
<td>CAM220A</td>
<td>Advanced Lathe Processes</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CAM220B</td>
<td>Advanced Lathe Processes-Lab</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CAM260</td>
<td>CAM Applications/Lathes</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DRF262</td>
<td>Machine Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PSY104</td>
<td>Psychology in the Workplace</td>
<td>4</td>
</tr>
<tr>
<td>Term 6</td>
<td>CAM290A</td>
<td>CAD/CAM Integrations</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>DRF260</td>
<td>Tool Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>WR065</td>
<td>Introduction to Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>WR227</td>
<td>Technical Writing</td>
<td>4</td>
</tr>
</tbody>
</table>

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.

### Computer-Aided Design/Computer-Aided Manufacturing (CAD/CAM) Associate of Applied Science

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 will use computers on the job for drafting, design and programming, and operating CNC machine tools.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,388; class fees, $321; universal fee, $1,302; hand tools and supplies, $4,200. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.
Management Programs

go.chemeketa.edu/management
See also Accounting and Business Administration.

These program offerings include short-term and one-year Certificates of Completion and a two-year Associate of Applied Science degree. The 36-credit Retail Management certificate prepares students for careers in sales and management. The one-year certificate program offers training for entry-level positions in the field of procurement management. As a graduate of Chemeketa’s Management AAS degree program, you may begin as a management trainee or other entry-level employee of a small business or large firm.

You may select individual courses to meet your needs, or you may work toward a certificate or degree.

For more information about these programs, contact program faculty Karen Edwards at 503.399.3996 or Kristi Newton at 503.399.6268.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program Outcomes

Students completing the Retail Management Certificate will:

- 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
- 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 will:

- Employ a basic understanding of procurement literacy through use of terms and definitions
- Apply math and computer skills requisite with industry expectations
- Apply standards in making ethical decisions in situations involving procurement 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

Students completing the AAS will:

- 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

Getting Started

The first step to entering these programs is to take part in an assessment process, which includes taking the college’s free placement test and meeting with Advising and Counseling Services. You may need to complete pre-program courses. Then, your advisor will help you develop an individualized program of study, which may include one or more of the following:

- CA121A Keyboarding A (if less than 25 wpm) .......... 1
- CIS101 Introduction to Microcomputer Applications .... 3
- MTH060 Introductory Algebra ................................... 4
- RD090 College Textbook Reading .......................... 3
- WR121 English Composition-Exposition .................. 4

Retail Management Certificate of Completion

retail.chemeketa.edu

The program 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 a statewide cooperative effort this program is also offered by other community colleges including: Clackamas, Lane, Linn-Benton, Oregon Coast, Mt. Hood, and Portland.

In addition to tuition estimated costs for students who complete the program listed below are books/software, $1,600; universal fee, $532; equipment and supplies, $150. Please 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 38 credit hours with a grade of “C” or better in all Business Administration courses. Courses may be taken in Salem, at our outreach campuses or centers, or online. The following courses may be taken in any order providing prerequisites are met.

<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>BA206</td>
<td>Business Management Principles</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>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>Computer Information Science 1</td>
<td>4</td>
</tr>
<tr>
<td>CIS125E</td>
<td>Excel-Workbooks</td>
<td>4</td>
</tr>
<tr>
<td>COMM100</td>
<td>Introduction to Communication</td>
<td>4</td>
</tr>
<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>COMM130</td>
<td>Business and Professional Speaking</td>
<td>4</td>
</tr>
</tbody>
</table>
Management

Procurement Management Certificate of Completion

The Procurement Management Certificate program emphasizes skill development in public and private procurement, contract administration, and project management. Graduates of this program may find work as purchasing and procurement clerks, purchasing agents, and purchasing managers.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,300; class fees, $200; universal fee, $644; equipment and supplies, $200. 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 46 credit hours with a grade of “C” or better in all Business Administration (BA) courses.

<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>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>BA234</td>
<td>Fundamentals of Supply Chain Management</td>
<td>4</td>
</tr>
<tr>
<td>BA235</td>
<td>Principles of Public Procurement</td>
<td>4</td>
</tr>
<tr>
<td>BA236</td>
<td>Contract Management</td>
<td>4</td>
</tr>
<tr>
<td>BA277</td>
<td>Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>CIS125E</td>
<td>Excel-Workbooks</td>
<td>4</td>
</tr>
<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking</td>
<td>4</td>
</tr>
<tr>
<td>or COMM100</td>
<td>Introduction to Communication</td>
<td>4</td>
</tr>
<tr>
<td>or COMM218</td>
<td>Interpersonal Communication</td>
<td>4</td>
</tr>
<tr>
<td>PSY104</td>
<td>Psychology in the Workplace+</td>
<td>4</td>
</tr>
<tr>
<td>WR227</td>
<td>Technical Writing+</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

Management Associate of Applied Science

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

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $3,300; class fees, $200; universal fee, $1,316; equipment and supplies, $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 94 credit hours with a grade of “C” or better in all Business Administration (BA) courses:

<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>BA202</td>
<td>Personal Effectiveness in Business</td>
<td>4</td>
</tr>
<tr>
<td>BA211</td>
<td>Financial Accounting 1</td>
<td>3</td>
</tr>
<tr>
<td>CIS125E</td>
<td>Excel-Workbooks</td>
<td>4</td>
</tr>
<tr>
<td>or COMM100</td>
<td>Introduction to Communication</td>
<td>4</td>
</tr>
<tr>
<td>or COMM218</td>
<td>Interpersonal Communication</td>
<td>4</td>
</tr>
<tr>
<td>PSY104</td>
<td>Psychology in the Workplace+</td>
<td>4</td>
</tr>
<tr>
<td>WR227</td>
<td>Technical Writing+</td>
<td>4</td>
</tr>
<tr>
<td>or CIS125E</td>
<td>Excel-Workbooks</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

Mathematics (transfer course guideline)

Oregon’s state universities offering Bachelor of Arts and/or Bachelor of Science degrees in Mathematics are Eastern Oregon University, Oregon State University, Portland State University, Southern Oregon University, University of Oregon, and Western Oregon University. Oregon State University offers degrees in Mathematical Sciences and Mathematics.

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 Counseling Services or a Chemeketa advisor. Also, you should make contact with an advisor at the institution to which you plan to transfer to learn of any possible changes in an academic area.

Medical Assisting Program

This program prepares graduates for a wide range of duties in medical offices and other healthcare settings. Administrative responsibilities may include scheduling and receiving patients, keeping medical records, handling telephone calls and correspondence, and maintaining supplies and equipment.
Medical assistant clinical duties may include assisting with examinations and treatments, obtaining medical histories, sterilizing instruments and equipment, and performing certain diagnostic tests and laboratory procedures 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 offered second term.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes
Students completing the certificate will:
- 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.

Getting started
This is a two term program with 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 Advising and Counseling Services. You may need to complete pre-program courses. Then, your advisor will help you develop an individualized program of study to meet prerequisite application requirements, which may include one or more of the following:

- MTH020 Basic Mathematics (or higher) .......................... 4
- RD090 College Textbook Reading (or higher) ................. 3

Prior to program entry, students must also 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, 503-584-7540. Failure to be assessed may delay your entry into program classes.

Medical Assisting Certificate of Completion
In addition to tuition, estimated costs for students who complete the entire program listed below are books, $125; class fees, $2,820; universal fee, $364; scrubs, $50; background checks, $90; immunizations, $250; travel to practicum, $300. Students are responsible for costs related to travel to practicum locations.

You may earn a Certificate of Completion by successfully completing these 26 required credit hours:

<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>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>MED131</td>
<td>Medical Assisting Seminar</td>
<td>.............. 1</td>
</tr>
<tr>
<td>Term 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MED132</td>
<td>Medical Assisting Clinical Practice</td>
<td>.............. 11</td>
</tr>
</tbody>
</table>

Nursing Programs

go.chemeketa.edu/nursing
Chemeketa 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 National League for Nursing Accrediting Commission (NLNAC). You may contact NLNAC for information about the program’s accreditation status. The address for NLNAC is 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326. The telephone number is 404.975.5000. The Web address is www.nlnac.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 Advising and Counseling Services for details at 503.399.5120. You should also make early contact with an advisor at the institution to which you plan to transfer.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes
Students completing the certificate will:
- Use a holistic approach in applying the nursing process at the practical nurse level when providing care for individuals and families across the lifespan
- Use established guidelines to reinforce the teaching of health promotion concepts across the lifespan to groups in selected community settings
- Communicate effectively with individual patients, families, and members of the health care team
- Organize and prioritize components of care at the practical nurse level for two to four patients
- Make decisions regarding patient care based on professional values at the practical nurse level while complying with identified legal/ethical standards (scope of practice regulations established by boards of nursing and Code of Practice guidelines established by the American Nurses Association)

Students completing the AAS will:
- Use a holistic approach to develop, implement, and evaluate plans of care for groups of patients that apply standard nursing care plans to meet individual needs
- Communicate effectively and collaboratively in a self-directed manner with patients, families, and members of the health-care team
• Use first-level management skills in providing care for individuals and groups of patients.
• Make decisions regarding patient care based on professional values and responsibilities at the associate degree nurse level while complying with identified legal/ethical standards (scope of practice regulations established by boards of nursing and Code of Practice guidelines established by the American Nurses Association).

Getting started
The following courses (completed with a grade of “C” or better) are required for application to the Nursing program for 2012–2013:

1. BI231 Anatomy and Physiology (completed within seven years). (Four credits.)
2. MTH095 Intermediate Algebra+ (or higher). This requirement cannot be waived by a placement test score. (Four credits.)

Note: Chemistry is a prerequisite for BI231. One term of accelerated college chemistry with a grade of “C” or better within the last seven years; CH110 (five credits); successful completion of the Chemistry Proficiency Exam; completion of CH104 and concurrent enrollment in CH105; completion of CH121 and concurrent enrollment in CH122; or completion of CH221 and concurrent enrollment in CH222 are all acceptable for meeting this prerequisite. A full sequence of chemistry may be recommended for students planning to pursue a four-year degree. Contact Advising and Counseling Services at 503.399.5120 for details.

In addition, the program has specific entry requirements for 2013-2014 as outlined in the nursing application packet available on Chemeketa’s Web site, www.chemeketa.edu. Most pre-nursing students complete the majority of general education and science courses required for the nursing program 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 Advising and Counseling Services at 503.399.5120 for details if you are considering the nursing program. Most students spend one or more years in a pre-nursing program to prepare for applying to the nursing program.

The nursing curriculum is designed to prepare you to apply for licensure at the following levels:

Nursing

Practical Nursing Certificate of Completion
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.

In addition to tuition, estimated costs for students who complete the entire Level I program listed below are books, $1,750; class fees, $293 universal fee, $742; clinical fee, $1,005; equipment and supplies, $525; drug testing fee, $45; criminal background check fee, $55; testing fee, $459. 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 by successfully completing the required 53 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).

<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>BI232</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>NUR106</td>
<td>Fundamentals of Nursing</td>
<td>9</td>
</tr>
<tr>
<td>PSY201</td>
<td>Introduction to Psychology: Mind and Body+</td>
<td>4</td>
</tr>
<tr>
<td>Term 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BI233</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>NUR108</td>
<td>Care of Acutely Ill Patients and Developing</td>
<td>10</td>
</tr>
<tr>
<td>PSY237</td>
<td>Life Span Development</td>
<td>4</td>
</tr>
<tr>
<td>Term 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BI234</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>NUR109</td>
<td>Care of Acutely Ill Patients and Developing</td>
<td>10</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.
†The following options may be used to fulfill this Psychology course requirement:

<table>
<thead>
<tr>
<th>Completed</th>
<th>Course No.</th>
<th>Cr Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Summer Term 2010</td>
<td>WR121</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>and</td>
<td></td>
</tr>
<tr>
<td></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
You may earn an associate’s degree by successfully completing the required 97 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. An associate degree in nursing qualifies you to apply to take the National Council Licensure Exam (NCLEX-RN) to become a registered nurse (RN).

RN 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.
In addition to tuition, estimated costs for students in Level II listed below are books, $600; class fees, $290; universal fee, $616; clinical fee, $1,005; drug testing fee, $45; equipment and supplies, $300; licensure testing fee, $452. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>Antion to Microcomputer Applications*...... 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Care of Patients with Complex Health Problems</td>
<td>11</td>
</tr>
<tr>
<td>Term 2</td>
<td>Care of Patients in Situations of Crisis and in Community-Based Settings</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Social Science elective**</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Sociology elective**</td>
<td>3</td>
</tr>
<tr>
<td>Term 3</td>
<td>Preparation for Entry into Practice</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>General Education elective**</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts and Letters elective***</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Communications elective***</td>
<td>3</td>
</tr>
<tr>
<td>Term 4</td>
<td>Human Evolution (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Introduction to Chicano/Latino Studies 1: Historical Overview (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Introduction to Economics (or higher)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Geography (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Family Relationships (or higher)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>History of World Civilization (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>American Government (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Psychology of Human Relations (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>The Sociological Perspective (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Introduction to Women's Studies: Women in American Society (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Term 6</td>
<td>Preparation for Entry into Practice</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>General Education elective**</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arts and Letters elective***</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Communications elective***</td>
<td>3</td>
</tr>
</tbody>
</table>

For clock hour information, see note following Practical Nursing course plan.

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

*Or CIS120 or higher CIS course with CIS101 as a prerequisite.

**Social Science electives:
- ATH101 Human Evolution (or higher)...... 4
- CLA201 Introduction to Chicano/Latino Studies 1: Historical Overview (or higher)...... 4
- EC200 Introduction to Economics (or higher)...... 4
- GEG105 Physical Geography (or higher)...... 4
- HDW222 Family Relationships (or higher)...... 3
- HST104 History of World Civilization (or higher)...... 4
- PS201 American Government (or higher)...... 4
- PSY101 Psychology of Human Relations (or higher)...... 4
- SOC204 The Sociological Perspective (or higher)...... 4
- WS101 Introduction to Women's Studies: Women in American Society (or higher)...... 4

***Arts and Letters electives:
- ART101 Understanding Art (or higher)...... 4
- ASL111 First Year American Sign Language, Term 1 (or higher)...... 4
- BA214 Business Communications...... 3
- COMM100 Introduction to Communication (or higher)...... 4
- ENG104 Introduction to Fiction (or higher)...... 4
- FA255 Understanding Movies: Film Styles (or higher)...... 4
- FR101 First Year French, Term 1 (or higher)...... 4
- HUM106 British Life and Culture (or higher)...... 3
- JNL216 Newswriting (or higher)...... 3
- JPN101 First Year Japanese, Term 1 (or higher)...... 4
- MUS105 History of Rock and Roll (or higher)...... 3
- PHL201 Introduction to Philosophy (or higher)...... 4
- RD115 Academic Thinking and Reading (or higher)...... 3
- REL201 Asian Religions (or higher)...... 4
- RUS101 First Year Russian, Term 1 (or higher)...... 4
- SPN101 First Year Spanish, Term 1 (or higher)...... 4
- WR115 Introduction to Composition (or higher)...... 4

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.

You may be interested in our Cooperative Work Experience program, which allows you to earn college credit for work related to your program. With the approval of the program chair, you may enroll in NUR280C-D Cooperative Work Experience and earn college credit hours. For more information, look under Cooperative Work Experience in the catalog index.

Nursing
(transfer course guideline)
Chemeketa is ready to help you plan your pre-nursing courses. 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 Advising and Counseling Services, 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 and a partnership agreement with University of Wisconsin-Green Bay. There are various other possibilities for students as well.

Admission to nursing programs 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 Dietetics program advisor to ensure that you
choose the appropriate courses. To see a copy of the specific transfer guidelines, visit www.htmprograms.com and click on “Academic Programs.”

Please contact the Hospitality and Tourism Management program at 503.399.5186 for further advising. For OSU advice about undergraduate course requirements, students can contact the OSU College of Health and Human Sciences Student Support and Advising Office at 541.737.8900. A program guideline is available at www.htmprograms.com.

Occupational Skills Training Program

[Link: 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 at 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, so 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.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes

Students completing the certificate will:

- 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 ST050A-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, see page 39) are also available to evaluate potential sites as well as student skills and career potential.

Getting started

For an appointment with an OST employment specialist or to receive a schedule of OST orientations, contact a staff member on the Salem campus at 503.399.7398.

Pharmacy Programs

[Link: go.chemeketa.edu/pharmacology]

The Pharmacy Technician and Pharmacy Management programs 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 (AAS) degree in Pharmacy Management. The Pharmacy Technician certificate program is accredited by the American Society of Health-Systems Pharmacists.

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 will 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.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

(If you plan to pursue a degree to become a registered pharmacist, see the Pre-Professional Study section on Page 133 of this catalog.)

Program outcomes

Students completing the certificate will:

- 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 AAS will:
- 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 Advising and Counseling Services staff. You may need to complete pre-program courses. Then, your advisor will help you develop an individualized program of study, which may include one or more of the following:

CA121A Keyboarding A (if less than 25 wpm prior to CIS101) .................................................. 1
CIS101 Introduction to Microcomputer Applications ......... 3
HM120 Medical Terminology 1 .................................. 3
HM121 Medical Terminology 2 .................................. 3
MTH070 Elementary Algebra (or higher) ..................... 4
RD115 Academic Thinking and Reading (or higher) ...... 3

If you have questions about the requirements, contact Advising and Counseling Services at 503.399.5120 or 503.399.5058. 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 testing and assessment. Applications are available in Advising and Counseling Services, Enrollment Services, program offices, and online.

Students are required to submit a copy of their current CPR cards and completed immunization forms prior to fall registration. 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 Management

Pharmacy Technician Certificate of Completion
In addition to tuition, estimated costs for students who complete the entire program listed below are books, $700; class fees, $122; universal fee, $812; equipment and supplies, $60; One-year non-renewable license (includes criminal background check and fingerprinting), $142; drug testing, $50; CPR certification, $55; immunizations, $300; 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 58 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>PHM101</td>
<td>Introduction to Pharmacy Technology</td>
<td>1</td>
</tr>
<tr>
<td>PHM115</td>
<td>Pharmacy Operations/Management</td>
<td>3</td>
</tr>
<tr>
<td>PHM120</td>
<td>Pharmacy Operations/Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>PHM230</td>
<td>Pharmaceutical Drug Classifications</td>
<td>3</td>
</tr>
<tr>
<td>PHM231</td>
<td>Pharmacology 1</td>
<td>5</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+</td>
<td>4</td>
</tr>
<tr>
<td>PHM110</td>
<td>Pharmacy Calculations</td>
<td>3</td>
</tr>
<tr>
<td>PHM205</td>
<td>Pharmacy Specialized Care</td>
<td>3</td>
</tr>
<tr>
<td>PHM210</td>
<td>Over-the-Counter (OTC) Products</td>
<td>2</td>
</tr>
<tr>
<td>PHM215</td>
<td>Sterile Compounding/Cytotoxic Medications</td>
<td>3</td>
</tr>
<tr>
<td>PHM220</td>
<td>Multicultural Patient Healthcare</td>
<td>2</td>
</tr>
<tr>
<td>PHM232</td>
<td>Pharmacology 2</td>
<td>5</td>
</tr>
<tr>
<td>MTH095</td>
<td>Intermediate Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PHM130</td>
<td>Pharmacy Information/Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHM150</td>
<td>Pharmacy Technician Practicum</td>
<td>4</td>
</tr>
<tr>
<td>PHM151</td>
<td>Pharmacy Seminar</td>
<td>1</td>
</tr>
<tr>
<td>PHM160</td>
<td>Hospital/Ambulatory Pharmacy Practicum</td>
<td>2</td>
</tr>
<tr>
<td>PHM233</td>
<td>Pharmacology 3</td>
<td>3</td>
</tr>
<tr>
<td>PSY201</td>
<td>Introduction to Psychology: Mind and Body+</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

Pharmacy Management Associate of Applied Science
In addition to tuition, estimated costs for students who complete second year courses listed below are books, $1,495; class fees, $27; universal fee, $672; equipment and supplies, $25. 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 106 required credit hours of the two-year Pharmacy Management program (48 credits during the second year in addition to the 58 credits of Pharmacy Technician program) 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>CIS125E</td>
<td>Excel-Workbooks</td>
<td>4</td>
</tr>
<tr>
<td>MTH111</td>
<td>College Algebra</td>
<td>5</td>
</tr>
<tr>
<td>PHM240</td>
<td>Advanced Pharmacy Management 1</td>
<td>3</td>
</tr>
<tr>
<td>WR227</td>
<td>Technical Writing</td>
<td>4</td>
</tr>
<tr>
<td>BA206</td>
<td>Business Management Principles</td>
<td>4</td>
</tr>
<tr>
<td>COMM218</td>
<td>Interpersonal Communication</td>
<td>4</td>
</tr>
<tr>
<td>EC201</td>
<td>Introduction to Microeconomics (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PHM241</td>
<td>Advanced Pharmacy Management 2</td>
<td>3</td>
</tr>
<tr>
<td>PSY237</td>
<td>Life Span Development (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>BA224</td>
<td>Human Resources Management</td>
<td>4</td>
</tr>
<tr>
<td>HPE295</td>
<td>Health and Fitness for Life</td>
<td>3</td>
</tr>
<tr>
<td>PHM242</td>
<td>Advanced Pharmacy Management 3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Arts and Letters elective*</td>
<td>3</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.
*200 level course
**Philosophy**  
(transfer course guideline)

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 Counseling Services or a Chemeketa 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 51.

**Physical Education and Human Performance**  
(transfer course guideline)

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 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 Counseling Services or a Chemeketa 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**  
(transfer course guideline)

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 Counseling Services or a Chemeketa 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**  
(transfer course guideline)

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 which 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 prelegal 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, 202 Introduction to Microeconomics and Introduction to Macroeconomics; HST201, 202, 203 History of the United States; WR121, 122 English Composition; as well as Philosophy, Psychology and Sociology courses.

**Physics**  
(transfer course guideline)

Oregon's state universities offering Bachelor of Arts and/or Bachelor of Science degrees in Physics are Eastern Oregon University, Oregon State University, Portland State University, Southern Oregon University, and University of Oregon.
Pre-Professional Study
(Medicine, Dentistry, Pharmacy, Veterinary Medicine)

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, students should plan to transfer to a four-year institution upon completion of the first year at Chemeketa. Students should 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 Counseling Services or a Chemeketa 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
(transfer course guideline)

Oregon State University, Portland State University, and Western Oregon University offer Bachelor of Arts and/or Bachelor of Science degrees in Speech and Speech Communications. Oregon State University offers an option in Theatre Arts. Southern Oregon University offers a baccalaureate degree in Communications with options in Human Communications, Mass Media Studies, and Journalism.

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 Counseling Services or a Chemeketa 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 Programs

go.chemeketa.edu/speechpathology

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 (SLPAs).

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 will heavily assess 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 clear articulation skills, use writing skills to take data, communicate clearly in chart notes, and use written discourse in taking descriptive therapy data and dialogue.

In order to be employed as a Certified Speech-Language Pathology Assistant in Oregon, one must hold current certification as a Speech-Language Pathology Assistant with the Oregon Board of Examiners for Speech Pathology and Audiology. Please visit the Board website at www.oregon.gov/BSPA/index.shtml to review the educational and practicum requirements necessary to be certified as a speech-language pathologist.

Sociology
(transfer course guideline)

Oregon’s state universities offering Bachelor of Arts and/or Bachelor of Science degrees in Sociology 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 Counseling Services or a Chemeketa 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.

Psychology
(transfer course guideline)

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 Counseling Services or a Chemeketa 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.

Mass Media Studies, and Journalism.

Oregon State University offers an option in Theatre Arts. Southern Oregon University offers a baccalaureate degree in Communications with options in Human Communications, Mass Media Studies, and Journalism.

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 Counseling Services or a Chemeketa 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 Programs

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In order to be employed as a Certified Speech-Language Pathology Assistant in Oregon, one must hold current certification as a Speech-Language Pathology Assistant with the Oregon Board of Examiners for Speech Pathology and Audiology. Please visit the Board website at www.oregon.gov/BSPA/index.shtml to review the educational and practicum requirements necessary to be certified as a speech-language pathologist.
For more information, contact the Oregon State Board of Examiners for Speech Pathology and Audiology: 971.673.0220.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes
Students completing the AAS or earning Certificate of Completion will:

- 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 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 the Advising and Counseling Services department. Applications are available on the program Web site: speechpathology.chemeketa.edu. Application deadlines are typically July 15 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 9 credits is typical and considered part-time. The program usually takes 5-7 terms to complete attending part-time.

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.

Getting started
The first step to entering the SLPA program is to obtain the current SLPA program application from the SLPA program website: http://speechpathology.chemeketa.edu. Students may need to take part in an assessment process to demonstrate competent abilities in the pre-program coursework areas, including computer literacy, keyboarding, math, reading, and writing. Students are strongly encouraged to meet with the designated counselor for the SLPA program within Advising and Counseling Services to formulate an individualized program of study, which may include the following pre-program courses:

- CIS101 Introduction to Microcomputer Applications 3
- MTH060 Introductory Algebra 4
- RD115 Academic Thinking and Reading 3
- WR115 Introduction to Composition 4

If you have any questions about the requirements, contact Advising and Counseling Services at 503.399.5120.

Speech-Language Pathology Assistant

Speech-Language Pathology Assistant Certificate of Completion

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,400; universal fee, $798; online fee, $750. 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 57 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>
</tr>
</thead>
<tbody>
<tr>
<td>MTH070</td>
<td>Elementary Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>PSY100</td>
<td>Introduction to Psychology+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>SLP180</td>
<td>Survey of Speech and Language Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SLP181</td>
<td>Phonetics for Language</td>
<td>3</td>
</tr>
<tr>
<td>SLP182</td>
<td>Intervention Strategies for SLP Assistants</td>
<td>3</td>
</tr>
<tr>
<td>SLP183</td>
<td>Introduction to Language Development</td>
<td>3</td>
</tr>
<tr>
<td>SLP184</td>
<td>Language Therapy</td>
<td>3</td>
</tr>
<tr>
<td>SLP185</td>
<td>Anatomy and Physiology of Speech and Language</td>
<td>3</td>
</tr>
<tr>
<td>SLP186</td>
<td>Speech Intervention with Children, Adolescents, and Adults</td>
<td>3</td>
</tr>
<tr>
<td>SLP187</td>
<td>Clinical Documentation and Materials for the SLPA</td>
<td>3</td>
</tr>
<tr>
<td>SLP188</td>
<td>Communication Disorders in Low Incidence Populations</td>
<td>3</td>
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<tr>
<td>SLP189</td>
<td>SLPA Practicum 1</td>
<td>3</td>
</tr>
<tr>
<td>SLP190</td>
<td>SLPA Practicum 2</td>
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</tr>
<tr>
<td>SLP191</td>
<td>Ethical and Legal Considerations in Speech-Language Pathology</td>
<td>3</td>
</tr>
<tr>
<td>SLP192</td>
<td>Augmentative and Alternative Communication</td>
<td>3</td>
</tr>
<tr>
<td>SLP193</td>
<td>Adult Communication Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SLP194</td>
<td>Language, Culture and Society: Cross-Cultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+ (or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53

Speech-Language Pathology Assistant Associate of Applied Science

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $2,350; universal fee, $1,330; online fee, $1,050. 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 as a Speech-Language Pathology Assistant 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>CIS101</td>
<td>Introduction to Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra</td>
<td>4</td>
</tr>
<tr>
<td>RD115</td>
<td>Academic Thinking and Reading</td>
<td>3</td>
</tr>
<tr>
<td>WR115</td>
<td>Introduction to Composition</td>
<td>4</td>
</tr>
<tr>
<td>COMM100</td>
<td>Introduction to Communication (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>ARTS103</td>
<td>Arts and Letters electives</td>
<td>12</td>
</tr>
<tr>
<td>PHED201</td>
<td>Physical Education or Health electives</td>
<td>3</td>
</tr>
<tr>
<td>SCIF101</td>
<td>Science/Applied Science electives</td>
<td>8</td>
</tr>
<tr>
<td>SOSC101</td>
<td>Social Science electives</td>
<td>8</td>
</tr>
</tbody>
</table>

2013–2014 Chemeketa Community College Catalog
Tourism and Travel Management Programs
See also Hospitality Management.

go.chemeketa.edu/tourism

The Tourism and Travel Management program prepares students for a broad range of leadership positions in various types of destination marketing organizations such as convention and visitors bureaus (CVBs), chambers of commerce, and government agencies, as well as private tourism departments of large hotels, convention centers, resort complexes, and travel-related businesses.

Courses will focus on the knowledge, skills, and abilities needed to formulate and implement effective business and marketing strategies in a tourism context. Students will develop strong leadership and communication skills required to lead destination stakeholder groups and local business leaders. In addition, students will 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.

The intent of the program is for students with the AAS degree and certificate to obtain entry-level management positions within the tourism industry. Students will also be advised on opportunities to continue their education by working toward a four-year degree in tourism through other universities.

Total required credit may vary due to the college's ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes

Students completing the Destination Marketing Certificate will:

- Practice approaches in tourism that help coordinate relationships among constituents in a community or property setting.
- Apply administrative skills and effective marketing techniques to research, develop, and attract visitors to destinations.
- Discuss the social, economic, and environmental consequences of tourism activities.

Students completing the Tourism and Travel Management Certificate will:

- Demonstrate effective customer service and selling techniques using tourism industry technology systems and applications.
- Use the key tourism industry elements to promote travel products and services to potential clients.

Students completing the AAS will:

- Design a strategic marketing plan.
- Analyze the visitor experience through the coordination of hospitality and tourism components.
- Research and prepare travel and tour packages for clients
- Apply relevant technology, including cost control techniques, to the operation of a tourism organization.

Getting started

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 Advising and Counseling Services. You may need to complete pre-program courses. Then, your advisor will help you develop an individualized program of study, which may include one or more of the following:

- CA121A Keyboarding A (if less than 25 wpm).............. 1
- CIS101 Introduction to Microcomputer Applications........ 3
- MTH060 Introductory Algebra........................................ 4
- RD115 Academic Thinking and Reading....................... 3
- SSP112 Effective Learning............................................ 3
- WR115 Introduction to Composition......................... 4

If you have any questions about the requirements, contact Advising and Counseling Services at 503.399.5120 or Tourism and Travel program staff at 503.584.7540. Failure to be assessed may delay your entry into program classes.

Tourism and Travel Management

Destination Marketing Certificate of Completion

The Tourism and Travel Management certificate in Destination Marketing prepares students for direct employment in destination marketing organizations including convention and visitor bureaus (CVBs), chambers of commerce, economic development offices, and government agencies, as well as private local tour operators and the tour departments of large hotels, resorts, or convention centers.

Courses focus on the abilities needed to formulate and implement effective marketing and communications strategies in a destination context. Students will develop strong planning and communication skills needed to successfully coordinate, with local stakeholders, clients, and business leaders.

With this certificate, students can obtain direct entry-level employment positions as destination marketing specialists. Students will be advised on other related opportunities, as well as their career opportunities with the full Tourism and Travel Management Associate of Applied Science degree.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $525; and universal fee, $378. 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 27 required 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>Term 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HTM100</td>
<td>Hospitality and Tourism Industry..........</td>
<td>3</td>
</tr>
<tr>
<td>HTM127</td>
<td>Selling in Hospitality and Tourism.......</td>
<td>3</td>
</tr>
<tr>
<td>HTM236</td>
<td>Tour Operations</td>
<td>3</td>
</tr>
<tr>
<td>Term 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HTM103</td>
<td>Service Marketing: Fundamentals...........</td>
<td>3</td>
</tr>
<tr>
<td>HTM201</td>
<td>Customer Service Management 2............</td>
<td>3</td>
</tr>
<tr>
<td>HTM235</td>
<td>Leadership in Tourism.....................</td>
<td>3</td>
</tr>
</tbody>
</table>
Tourism and Travel Management

Tourism and Travel Management Certificate of Completion

The Tourism and Travel Management one-year certificate focuses on travel-related careers in airline, tour operations, resort and hotel front-desk, or travel agency employment. The certificate prepares students for direct entry into the workforce or offers the ability to continue into Tourism and Travel Management AAS Degree program.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,791; class fees, $140; and universal fee, $1,288. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

If you have any questions about the requirements, contact Advising and Counseling Services at 503.399.5120 or call the HTM department at 503.584.7540. Failure to be assessed may delay your entry into program classes.

You may earn a Certificate of Completion by successfully completing these 45 required 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>Term 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HTM100</td>
<td>Hospitality and Tourism Industry</td>
<td>3</td>
</tr>
<tr>
<td>HTM114</td>
<td>Travel Destination Geography 1</td>
<td>3</td>
</tr>
<tr>
<td>HTM127</td>
<td>Selling in Hospitality and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HTM236</td>
<td>Tour Operations</td>
<td>3</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Term 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HTM115</td>
<td>Travel Destination Geography 2</td>
<td>3</td>
</tr>
<tr>
<td>HTM143</td>
<td>Computer Reservation Systems 1</td>
<td>3</td>
</tr>
<tr>
<td>HTM237</td>
<td>Tourism Transportation: Cruise, Air, Rail</td>
<td>3</td>
</tr>
<tr>
<td>PSY104</td>
<td>Psychology in the Workplace+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+ (or higher)</td>
<td>4</td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tourism and Travel Management Associate of Applied Science

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,791; class fees, $140; and universal fee, $1,288. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

If you have any questions about the requirements, contact Advising and Counseling Services at 503.399.5120 or call the HTM department at 503.584.7540. Failure to be assessed may delay your entry into program classes.

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 Hospitality and Tourism Management (HTM) courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HTM116</td>
<td>Travel Destination Geography 3</td>
<td>3</td>
</tr>
<tr>
<td>HTM131</td>
<td>Customer Service Management 1</td>
<td>3</td>
</tr>
<tr>
<td>HTM208</td>
<td>Attractions and Entertainment</td>
<td>3</td>
</tr>
<tr>
<td>HTM223</td>
<td>Computer Reservation Systems 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>+Meets related instruction requirement, see page 44. For subject areas, see page 53.</td>
<td></td>
</tr>
</tbody>
</table>
Vineyard Management

Vineyard Management programs are designed to prepare students for entry into the wine industry, focusing on the practical skills required for successful employment as a vineyard manager or technician. The programs cover a range of topics from practical management skills to technical knowledge, ensuring students are equipped for various roles in the vineyard management process.

Program outcomes

- Students completing the certificate will:
  - Evaluate the potential of a site for vineyard development considering soil and environmental analysis.
  - Perform skills necessary for the seasonal vineyard operations including pruning, disease and pest control, grapevine canopy management, and crop regulation.
  - Prepare reports to track ripening data, vineyard pesticide applications, and canopy measurements.

In addition to the certificate outcomes, students completing the AAS will:

- 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.

Getting started

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 Advising and Counseling Services. You may need to complete pre-program courses. After completing the assessment process, which includes taking the college’s free placement test and meeting with Advising and Counseling Services, your advisor will help you develop an individualized program of study, which may include one or more of the following:

- CA121A Keyboarding A (if less than 25 wpm).............................. 1
- MTH060 Introductory Algebra .................................................. 4
- RD090 College Textbook Reading............................................. 3
- WR090 Fundamentals of Writing............................................... 4

For more information about this program, contact Al MacDonald at 503.584.7254.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $1,396; class fees, $270 universal fee, $588. 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 42 credit hours with a grade of “C” or better in all courses.

Course Title Credit Hours

Winter Term
- MTH070 Elementary Algebra (or higher) ..................................... 4
- VMW101 General Viticulture ..................................................... 3
- VMW114 Winter Vineyard Practices ............................................ 4
- VMW261 Vine Physiology (or higher) ........................................... 4

Spring Term
- PSY101 Psychology of Human Relations (or higher) ............... 4
- VMW115 Spring Vineyard Practices ............................................ 4
- WR115 Introduction to Composition+ (or higher) ..................... 4

Summer Term
- VMW116 Summer Vineyard Practices ....................................... 4

Fall Term
- CIS101 Introduction to Microcomputer Applications (or higher) ................................. 3
- VMW117 Fall Vineyard Practices ................................................. 4
- VMW260 Soil and Plant Nutrition ................................................ 4
Getting started
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 Advising and Counseling Services. You may need to complete pre-program courses. Then, your advisor will help you develop an individualized program of study, which may include one or more of the following:

CA121A  Keyboarding A (if less than 25 wpm)...... 1
MTH070  Elementary Algebra.......................... 4
RD115    Academic Thinking and Reading .......... 3
or
SSP112  Effective Learning................................ 3
WR115    Introduction to Composition............. 4

If you have questions about the requirements, contact Advising and Counseling Services at 503.399.5120 or 503.399.6071. Failure to be assessed may delay your entry into program classes.

Vineyard Management Associate of Applied Science
In addition to tuition, estimated costs for students who complete the entire program listed below are books, $3,112; class fees, $468; universal fee, $1,358. 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 required 97 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>CH121 College Chemistry (or higher)</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>CIS101 Introduction to Microcomputer Applications (or higher)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MTH095 Intermediate Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>VMW101 General Viticulture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>VMW131 Wine Appreciation (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>Term 2</td>
<td>CH122 College Chemistry (or higher)</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>VMW114 Winter Vineyard Practices</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>VMW122 Introduction to Winemaking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>WR121 English Composition-Exposition+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Term 3</td>
<td>VMW115 Spring Vineyard Practices</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>VMW262 Vineyard Pest Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>WR227 Technical Writing (or higher)</td>
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<td></td>
<td>Vineyard Management elective*</td>
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<tr>
<td>Term 4</td>
<td>VMW116 Summer Vineyard Practices</td>
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<tr>
<td>Term 5</td>
<td>COMM111 Fundamentals of Public Speaking (or higher)</td>
<td>4</td>
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<tr>
<td></td>
<td>SPN101 First Year Spanish, Term 1 (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>VMW117 Fall Vineyard Practices</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>VMW260 Soil and Plant Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>Term 6</td>
<td>PSY101 Psychology of Human Relations+ (or higher)</td>
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</tr>
<tr>
<td></td>
<td>VMW105 Spanish in the Vineyard</td>
<td>3</td>
</tr>
</tbody>
</table>
|        | or
|        | SPN102 First Year Spanish, Term 2 (or higher) | 4 |
|        | VMW261 Vine Physiology (or higher) | 4 |
|        | VMW280C Cooperative Work Experience | 3 |
| Term 7 | VMW256 Agriculture Business Management | 3 |
|        | VMW280C Cooperative Work Experience | 3 |
|        | Vineyard Management electives* | 8 |

*Vineyard Management electives (select 12 credit hours):
BA223 Principles of Marketing (or higher) | 4 |
BI101 General Biology (or higher) | 4 |
BI131 Environmental Science 1 (or higher) | 4 |
CA220 QuickBooks-Computerized Bookkeeping | 3 |
CH123 College Chemistry (or higher) | 5 |
CH172 Chemical Methods for Analysis of Musts and Wines | 3 |
CIS125A Micro Database Software-Access | 3 |
CIS125E Excel-Workbooks | 4 |
CIS178I Introduction to the Internet/World-Wide Web | 3 |
HOR211 Plant Propagation | 4 |
VMW102 Wine Industry Exploration | 3 |
VMW132 Wines of the World | 3 |
VMW134 Wines of the Pacific Northwest | 3 |
VMW170 Introduction to Wine Marketing | 3 |
VMW222 Science of Winemaking | 3 |
VMW232 Sensory Evaluation of Wine Varietals | 3 |
VMW233 Sensory Evaluation of Wine Components | 3 |
VMW244 Wine Production | 6 |
VMW245 Wine Clarification and Stabilization | 4 |
VMW246 Wine Aging, Filtration and Bottling | 4 |
VMW254 Winery Process Planning and Design | 3 |
VMW257 Direct to Consumer Wine Sales Management | 3 |
VMW271 Wine Marketing-Brand Development | 4 |
VMW272 Wine Marketing-Understanding the Wine Market Place | 4 |
VMW273 Wine Marketing-Assessing and Targeting the Market | 4 |
VMW198A-D Independent Studies | 1-4 |
VMW280B-F Cooperative Work Experience | 2-6 |
WLD051 Basic Arc Welding | 5 |

Visual Communications Programs
vc.chemeketa.edu
The Visual Communications program offers two Associate of Applied Science degrees: Graphic Design and Interactive Media. All students have a common course of study during the first two quarters, which includes general education as well as program classes. Before spring term of your first year, you will meet with your assigned faculty advisor to determine your degree path. Students completing the program over a three-year period have the option of earning both degrees. During the second year, students take either the required graphic design or interactive media courses and then come together during
their final quarter 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.

As part of the program, all students will 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. Students will produce a print and/or digital portfolio of work, including a personal stationery package and résumé, in preparation for entering the job market.

Either program option takes 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 both 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 and a complete application packet, visit the program web site at vc.chemeketa.edu.

Total required credit may vary due to the college's ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes

Students completing the AAS degrees will:
• Work with others in the creation and production of original ideas and graphic design and/or interactive media
• Research and present solution designs to communication projects
• 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

Getting started

Apply early. The program has special admission prerequisites, requirements and enrollment limits. A portfolio is part of the application process. Attending a program overview session is strongly recommended prior to submitting an application. Sessions are scheduled throughout the year. Check vc.chemeketa.edu for current dates.

The first step to entering this program is to take part in a program assessment process, which includes taking the college’s free placement test. You may need to complete pre-program courses, which may include one or more of the following:

- MTH020 Basic Mathematics............................................. 4
- RD115 Academic Thinking and Reading ....................... 3
- WR115 Introduction to Composition............................. 4

Many classes take place in a Mac lab and require extensive computer knowledge. Detailed information about the program and application process is available on the web. If you have questions about admission requirements, contact Advising and Counseling Services at 503.399.5120. Contact Program Chair Christine Linder at 503.399.6473 or email christine.linder@chemeketa.edu for additional information about the program.

Graphic Design Associate of Applied Science

In addition to tuition, estimated costs for the students who complete the entire Graphic Design program average $618 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 fees for Graphic Design total $1,200 for required courses, and universal access fees are an additional $1,498. 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 2.50 and successfully completing the 107 credit hours with a grade of “C” or better in all required 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>ART115</td>
<td>Basic Design: Black and White...</td>
<td>4</td>
</tr>
<tr>
<td>ART131</td>
<td>Introduction to Drawing</td>
<td>4</td>
</tr>
<tr>
<td>VC111</td>
<td>Introduction to Visual Communications</td>
<td>4</td>
</tr>
<tr>
<td>VC114</td>
<td>Introduction to Digital Graphics</td>
<td>4</td>
</tr>
<tr>
<td>Term 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART207</td>
<td>Graphic Design Literacy</td>
<td>4</td>
</tr>
<tr>
<td>ART224</td>
<td>Type Design 1</td>
<td>4</td>
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<tr>
<td>VC115</td>
<td>Introduction to Digital Layout</td>
<td>4</td>
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<tr>
<td>VC151</td>
<td>Graphic Production</td>
<td>3</td>
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<tr>
<td>WR121</td>
<td>English Composition-Exposition+</td>
<td>4</td>
</tr>
<tr>
<td>Term 3</td>
<td></td>
<td></td>
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<tr>
<td>ART118</td>
<td>Digital Design and Color</td>
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<tr>
<td>ART225</td>
<td>Type Design 2</td>
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<tr>
<td>ART234</td>
<td>Figure Drawing</td>
<td>4</td>
</tr>
<tr>
<td>COMM112</td>
<td>Persuasive Speaking</td>
<td>4</td>
</tr>
<tr>
<td>VC224</td>
<td>Layout 1: Page Design</td>
<td>4</td>
</tr>
<tr>
<td>Term 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART221</td>
<td>Graphic Design 1: Icons and Symbols</td>
<td>4</td>
</tr>
<tr>
<td>ART238</td>
<td>Introduction to Illustration</td>
<td>3</td>
</tr>
<tr>
<td>ART265</td>
<td>Digital Photography 1</td>
<td>4</td>
</tr>
<tr>
<td>VC225</td>
<td>Layout 2: Intermediate Page Design</td>
<td>4</td>
</tr>
<tr>
<td>VC246</td>
<td>File Prep</td>
<td>3</td>
</tr>
<tr>
<td>VC272A</td>
<td>Design Studio</td>
<td>2</td>
</tr>
<tr>
<td>Term 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART222</td>
<td>Graphic Design 2: Logo Design</td>
<td>4</td>
</tr>
<tr>
<td>ART239</td>
<td>Introduction to Digital Illustration</td>
<td>3</td>
</tr>
<tr>
<td>MTH060</td>
<td>Introductory Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>VC226</td>
<td>Layout 3: Publication Design</td>
<td>4</td>
</tr>
<tr>
<td>VC235</td>
<td>Interface Design</td>
<td>3</td>
</tr>
</tbody>
</table>

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Graphic Design

Interactive Media Associate of Applied Science Option

Interactive Media students average $539 per term. Costs include photographic supplies, books, printing, presentation supplies, tracing paper, sketchbooks, and digital media. Class fees for the Interactive Media option total $1,360 for required courses, and universal access fees are an additional $1,428. 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 2.50 and successfully completing the 102 credit hours with a grade of “C” or better in all required courses.

Welding Technology Programs

go.chemeketa.edu/welding

The Welding Technology program offers two options. A three-term welding certificate program 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 six-term Welding Fabrication AAS 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 certificate program has been designed to be completed in one year and the degree program in 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.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes

Students completing the certificate will:

- Set up and operate manual and semi-automatic welding and cutting equipment used in the 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
- 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 AAS will:

- Perform basic set-ups and operations for manual and computer numeric controlled machining equipment
- Design and carry out planning procedures for machining purposes
• Select and use tools and equipment to manufacture, measure, and inspect parts in a machining environment.

Getting started
The Welding Fabrication AAS degree and the Welding certificate programs have 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 Counseling Services staff, 503.399.5120. There are entry-level requirements for skill levels in reading and mathematics. Your advisor will help you develop an individualized program of study, which may include one or more of the following:

MTH020  Basic Mathematics................................. 4
RD090  College Textbook Reading.......................... 3

If you have questions about the requirements, contact Advising and Counseling Services at 503.399.5120 or 503.399.5210. 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 at http://www.chemeketa.edu/programs/welding/documents/WeldingTechApp2013.pdf.

Enrollment in these programs 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 Advising and Counseling Services at 503.399.5120, or the Welding Technology program chair at 503.399.6059 for details if you are considering the Welding Certificate or the Welding Fabrication AAS degree programs.

Welding Fabrication

Welding Certificate of Completion
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, semi-automatic welding equipment operators, and TIG welders.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $402; class fees, $488; universal fee, $714; equipment and supplies, $650; certification test, $360 (optional). 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 51 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>
</tr>
</thead>
<tbody>
<tr>
<td>MTH052</td>
<td>Introduction to Algebra and Geometry+ (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>WLD051</td>
<td>Basic Arc Welding</td>
<td>5</td>
</tr>
<tr>
<td>WLD056</td>
<td>Blueprint Reading and Sketching</td>
<td>2</td>
</tr>
<tr>
<td>WLD061</td>
<td>Basic Gas Metal Arc Welding (MIG)</td>
<td>3</td>
</tr>
<tr>
<td>WLD070</td>
<td>Oxyacetylene Processes</td>
<td>3</td>
</tr>
</tbody>
</table>

Welding Fabrication Associate of Applied Science
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.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $909; class fees, $750; universal fee, $1,302; equipment and supplies, $700; certification test, $360 (optional). 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 93 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>MTH052</td>
<td>Introduction to Algebra and Geometry+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>WLD052</td>
<td>Intermediate Arc Welding</td>
<td>5</td>
</tr>
<tr>
<td>WLD057</td>
<td>Layout Practices</td>
<td>1</td>
</tr>
<tr>
<td>WLD062</td>
<td>Intermediate Gas Metal Arc Welding (MIG)</td>
<td>3</td>
</tr>
<tr>
<td>WLD073</td>
<td>Basic Gas Tungsten Arc Welding (TIG)</td>
<td>4</td>
</tr>
<tr>
<td>WR060</td>
<td>Introduction to Technical Writing 1+ (or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

Term 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLD053</td>
<td>Advanced Arc Welding</td>
<td>3</td>
</tr>
<tr>
<td>WLD058</td>
<td>Weld Shop Problems</td>
<td>7</td>
</tr>
<tr>
<td>WLD063</td>
<td>Advanced Gas Metal Arc Welding (MIG)</td>
<td>3</td>
</tr>
<tr>
<td>WLD080</td>
<td>Metallurgy for Welders</td>
<td>2</td>
</tr>
</tbody>
</table>

Term 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLD053</td>
<td>Advanced Arc Welding</td>
<td>3</td>
</tr>
<tr>
<td>WLD058</td>
<td>Weld Shop Problems</td>
<td>7</td>
</tr>
<tr>
<td>WLD063</td>
<td>Advanced Gas Metal Arc Welding (MIG)</td>
<td>3</td>
</tr>
<tr>
<td>WLD080</td>
<td>Metallurgy for Welders</td>
<td>2</td>
</tr>
</tbody>
</table>
Wine Business Program

The Wine Business program includes instruction and hands-on training in the basic knowledge and technical skills required for successful employment in various aspects of the wine business. This program prepares students for occupations such as tasting room sales manager, wine steward, wine club supervisor, wine buyer or broker, wine marketing or sales manager, wine distribution manager, freelance wine marketing, winery public relations manager, or wine shop owner/manager.

Communication skills are emphasized, and students will gain on-the-job work experience through the Cooperative Work Experience program. Students have flexibility to choose electives that will help tailor the curriculum and training to their particular career interest in wine marketing.

For more information about this program, contact Barney Watson at 503.584.7255.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes

Students completing the AAS will:
- Develop a wine marketing plan for a variety of distribution channels
- Create and present sales presentations
- Develop a brand plan for a winery

Getting started

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 Advising and Counseling Services. You may need to complete pre-program courses. Then, your advisor will help you develop an individualized program of study, which may include one or more of the following:

- CA121A Keyboarding A (if less than 25 wpm)........ 1
- MTH060 Introductory Algebra.......................... 4
- RD115 Academic Thinking and Reading............. 3
- or
- SSP112 Effective Learning.............................. 3
- WR115 Introduction to Composition................... 4

If you have questions about the requirements, call Counseling and Career Services at 503.399.5120 or 503.399.6071. Failure to be assessed may delay your entry into program classes.

Wine Business Associate of Applied Science

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $3,059; class fees, $622; universal fee, $1,358. 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 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>BA101</td>
<td>Introduction to Business (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>CA117</td>
<td>Microsoft Publisher (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS101</td>
<td>Introduction to Microcomputer Applications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTH070</td>
<td>Elementary Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>VMW101</td>
<td>General Viticulture</td>
<td>3</td>
</tr>
<tr>
<td>WR121</td>
<td>English Composition-Exposition+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td><strong>Term 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking (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>VMW122</td>
<td>Introduction to Winemaking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Wine Business electives*</td>
<td>6</td>
</tr>
<tr>
<td><strong>Term 3</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA223</td>
<td>Principles of Marketing (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>VMW131</td>
<td>Wine Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>VMW170</td>
<td>Introduction to Wine Marketing</td>
<td>3</td>
</tr>
<tr>
<td>WR227</td>
<td>Technical Writing (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Wine Business elective*</td>
<td>3</td>
</tr>
<tr>
<td><strong>Term 4</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VMW257</td>
<td>Direct to Consumer Wine Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>VMW271</td>
<td>Wine Marketing-Brand Development</td>
<td>4</td>
</tr>
<tr>
<td>VMW280C</td>
<td>Cooperative Work Experience</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Education elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Wine Business elective*</td>
<td>3</td>
</tr>
<tr>
<td><strong>Term 5</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VMW132</td>
<td>Wines of the World</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VMW134</td>
<td>Wines of the Pacific Northwest</td>
<td>3</td>
</tr>
<tr>
<td>VMW272</td>
<td>Wine Marketing-Understanding the Wine Market Place</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Wine Business electives*</td>
<td>6</td>
</tr>
</tbody>
</table>
Winemaking Program

go.chemeketa.edu/winemaking

The Winemaking program includes instruction and hands-on training in the basic knowledge and technical skills required for successful employment as a winemaker in the cool-climate wine industry. Training is appropriate for employees or potential employees of wineries or for people wanting to establish such a business. Practical skills will also be emphasized, and students will gain on-the-job work experience through the Cooperative Work Experience program.

For more information about this program, contact Barney Watson at 503.584.7255.

Total required credit may vary due to the college’s ongoing three-to-four credit conversion. Chemeketa degree and certificate minimum requirements must be met. Please contact your program advisor or Advising and Counseling staff to ensure that you are on track to meet program requirements.

Program outcomes

Students completing the AAS will:

- 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, record-keeping, regulatory compliance, and health and safety programs

Getting started

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 Advising and Counseling Services. You may need to complete pre-program courses. Then, your advisor will help you develop an individualized program of study, which may include one or more of the following:

- CA121A Keyboarding A (if less than 25 wpm) ........................................ 1
- MTH070 Elementary Algebra ................................................................. 4
- RD115 Academic Thinking and Reading (or higher).................................. 3 or
- SSP112 Effective Learning ................................................................. 3
- WR115 Introduction to Composition .................................................. 4

If you have questions about the requirements, contact Advising and Counseling Services at 503.399.5120 or 503.399.6071. Failure to be assessed may delay your entry into program classes.

Winemaking Associate of Applied Science

In addition to tuition, estimated costs for students who complete the entire program listed below are books, $2,891; class fees, $654; universal fee, $1,414. 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 Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1</td>
<td></td>
</tr>
<tr>
<td>CH121 College Chemistry (or higher)</td>
<td>5</td>
</tr>
<tr>
<td>CIS101 Introduction to Microcomputer Applications (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>MTH095 Intermediate Algebra+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>VMW101 General Viticulture</td>
<td>3</td>
</tr>
<tr>
<td>Term 2</td>
<td></td>
</tr>
<tr>
<td>BI230 Introductory Microbiology (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>CH122 College Chemistry (or higher)</td>
<td>5</td>
</tr>
<tr>
<td>VMW122 Introduction to Winemaking</td>
<td>3</td>
</tr>
<tr>
<td>WR121 English Composition-Exposition+ (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Winemaking elective*</td>
<td>3</td>
</tr>
<tr>
<td>Term 3</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>---</td>
</tr>
<tr>
<td>CH123</td>
<td>College Chemistry (or higher) ..... 5</td>
</tr>
<tr>
<td>CH172</td>
<td>Chemical Methods for Analysis of Musts and Wines .............. 3</td>
</tr>
<tr>
<td>PSY101</td>
<td>Psychology of Human Relations+ (or higher) .... 4</td>
</tr>
<tr>
<td>VMW131</td>
<td>Wine Appreciation .................. 3</td>
</tr>
<tr>
<td>VMW222</td>
<td>Science of Winemaking ................ 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Term 4</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM111</td>
<td>Fundamentals of Public Speaking (or higher) .... 4</td>
</tr>
<tr>
<td>VMW244</td>
<td>Wine Production ..................... 6</td>
</tr>
<tr>
<td>WR227</td>
<td>Technical Writing (or higher) ...................... 4</td>
</tr>
<tr>
<td>Winemaking elective*</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Term 5</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>VMW132</td>
<td>Wines of the World .................. 3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>VMW134</td>
<td>Wines of the Pacific Northwest .......... 3</td>
</tr>
<tr>
<td>VMW170</td>
<td>Introduction to Wine Marketing (or higher) .......... 3</td>
</tr>
<tr>
<td>VMW245</td>
<td>Wine Clarification and Stabilization .............. 4</td>
</tr>
<tr>
<td>VMW254</td>
<td>Winery Process Planning and Design .............. 3</td>
</tr>
<tr>
<td>VMW280C</td>
<td>Cooperative Work Experience .............. 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Term 6</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>VMW233</td>
<td>Sensory Evaluation of Wine Components .............. 3</td>
</tr>
<tr>
<td>VMW246</td>
<td>Wine Aging, Filtration, and Bottling .............. 4</td>
</tr>
<tr>
<td>VMW256</td>
<td>Agriculture Business Management .................. 3</td>
</tr>
<tr>
<td>VMW280C</td>
<td>Cooperative Work Experience .................. 3</td>
</tr>
<tr>
<td>Winemaking elective*</td>
<td>3</td>
</tr>
</tbody>
</table>

+Meets related instruction requirement, see page 44. For subject areas, see page 53.

**Winemaking electives (select 9 credit hours):**

| BA101 | Introduction to Business (or higher) .............. 3 |
| BA223 | Principles of Marketing ......................... 4 |
| BI101 | General Biology (or higher) ...................... 4 |
| CA220 | QuickBooks-Computerized Bookkeeping .............. 3 |
| CIS125A | Micro Database Software-Access .............. 3 |
| CIS125E | Excel-Workbooks ......................... 4 |
| CIS178I | Introduction to the Internet/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 Exploration ...................... 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 |
| VMW257 | Direct to Consumer Wine Sales Management ........ 3 |
| VMW260 | Soil and Plant Nutrition ....................... 4 |
| VMW261 | Vine Physiology ............................. 4 |
| VMW271 | Wine Marketing-Brand Development ......... 4 |
| VMW272 | Wine Marketing-Understanding the Wine Market .................. 4 |
| VMW273 | Wine Marketing-Assessing and Targeting the Market .................. 4 |
| VMW280B-F | Cooperative Work Experience ................. 2-6 |

+Meets related instruction requirement, see page 44. For subject areas, see page 53.
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. These are conditions you must meet 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. To gain consent, meet with the instructor. Consent is based on the instructor’s assessment of your readiness to enroll in the course.

Chemeketa also offers many non-credit personal enrichment courses not included here.

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.

Note 2: 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.

For information on when and where classes meet, consult the Schedule of Classes available each term.

How courses are numbered

The following course prefixes describe the primary intent of the courses offered:

<table>
<thead>
<tr>
<th>Developmental Courses*</th>
<th>PHM: Pharmacy Technician/Pharmacy Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH: Mathematics</td>
<td>PLP: Portfolio for Prior Learning</td>
</tr>
<tr>
<td>RD: Reading</td>
<td>RD: Reading</td>
</tr>
<tr>
<td>SSP: Study Skills Program</td>
<td>RNW: Renewable Energy Management</td>
</tr>
<tr>
<td>WR: Writing</td>
<td>SLP: Speech-Language Pathology Assistant</td>
</tr>
<tr>
<td>*Developmental courses numbered less than 50 do not meet the requirements of the AAOT, AAS, AS/OT-BUS or AGS degrees.</td>
<td></td>
</tr>
<tr>
<td>Career and Technical Courses</td>
<td>SSP: Study Skills</td>
</tr>
<tr>
<td>AH: Allied Health</td>
<td>ST: Occupational Skills Training</td>
</tr>
<tr>
<td>APR: Apprenticeship</td>
<td>VC: Visual Communications</td>
</tr>
<tr>
<td>AUM: Automotive Technology</td>
<td>VMW: Vineyard Management/Wine Business/Winemaking</td>
</tr>
<tr>
<td>BLD: Building Inspection Technology</td>
<td>WFB: Welding Fabrication</td>
</tr>
<tr>
<td>BT: Business Technology</td>
<td>WLD: Welding</td>
</tr>
<tr>
<td>CA: Computer Applications</td>
<td>**Many career and technical courses are applicable to the baccalaureate degree; check with the four-year institution.</td>
</tr>
<tr>
<td>CAM: Computer-Aided Manufacturing</td>
<td>Lower Division Collegiate Courses</td>
</tr>
<tr>
<td>CIS: Computer Information Science</td>
<td>(first two years of the baccalaureate degree)</td>
</tr>
<tr>
<td>CJ: Criminal Justice</td>
<td>ART: Art</td>
</tr>
<tr>
<td>CVL: Civil Technology</td>
<td>ASL: American Sign Language</td>
</tr>
<tr>
<td>DEN: Dental Assisting</td>
<td>ATH: Anthropology</td>
</tr>
<tr>
<td>DRF: Drafting Technology</td>
<td>BA: Business Administration***/****</td>
</tr>
<tr>
<td>ECE: Early Childhood Education</td>
<td>BI: Biology***</td>
</tr>
<tr>
<td>ED: Education</td>
<td>BOT: Botany</td>
</tr>
<tr>
<td>ELT: Electronics Technologies</td>
<td>CG: Counseling and Guidance***</td>
</tr>
<tr>
<td>EMT: Emergency Medical Technology</td>
<td>CH: Chemistry</td>
</tr>
<tr>
<td>ENL: English as a Non-Native Language</td>
<td>CIS: Computer Information Science***/****</td>
</tr>
<tr>
<td>ES: Emergency Services</td>
<td>CJ: Criminal Justice***</td>
</tr>
<tr>
<td>FE: Field Experiences</td>
<td>CLA: Chicano/Latino Studies</td>
</tr>
<tr>
<td>FLM: Filmmaking</td>
<td>COMM: Oral Communication/Speech</td>
</tr>
<tr>
<td>FRP: Fire Protection Technology</td>
<td>CS: Computer Science***/****</td>
</tr>
<tr>
<td>HDF: Human Development and Family Studies</td>
<td>EC: Economics</td>
</tr>
<tr>
<td>HEM: Hemodialysis Technician</td>
<td>ECE: Early Childhood Education****</td>
</tr>
<tr>
<td>HM: Health Information Management</td>
<td>EGR: Engineering****</td>
</tr>
<tr>
<td>HOR: Horticulture</td>
<td>ENG: English</td>
</tr>
<tr>
<td>HS: Human Services</td>
<td>ENT: Entrepreneurship</td>
</tr>
<tr>
<td>HTM: Hospitality Management; Tourism and Travel Management</td>
<td>FA: Film Arts</td>
</tr>
<tr>
<td>MED: Medical Assisting</td>
<td>FR: French</td>
</tr>
<tr>
<td>MT: Industrial</td>
<td>FYE: First Year Experience</td>
</tr>
<tr>
<td>NET: Network Technology</td>
<td>GE: General Engineering****</td>
</tr>
<tr>
<td>NUR: Nursing</td>
<td>GEG: Geography</td>
</tr>
<tr>
<td>GEO: Geology</td>
<td>GS: General Science</td>
</tr>
<tr>
<td>HE: Health Education</td>
<td>HOR: Horticulture</td>
</tr>
<tr>
<td>HPE: Health and Physical Education</td>
<td>HS: Human Services****</td>
</tr>
<tr>
<td>HST: History</td>
<td>HUM: Humanities</td>
</tr>
<tr>
<td>JNL: Journalism</td>
<td>JPN: Japanese</td>
</tr>
<tr>
<td>MTH: Mathematics***</td>
<td>MUS: Music</td>
</tr>
<tr>
<td>NFM: Nutrition and Food Management</td>
<td>OC: OceanoGraphy</td>
</tr>
<tr>
<td>PS: Political Science</td>
<td>PE: Physical Education</td>
</tr>
<tr>
<td>PSY: Psychology</td>
<td>PH: Physics***</td>
</tr>
<tr>
<td>RD: Reading*</td>
<td>PHL: Philosophy</td>
</tr>
<tr>
<td>REL: Religion</td>
<td>SOC: Sociology</td>
</tr>
<tr>
<td>RUS: Russian</td>
<td>SPN: Spanish</td>
</tr>
<tr>
<td>SSC: Social Science</td>
<td>ST: Speech-Language Pathology Assistant</td>
</tr>
<tr>
<td>WS: Women's Studies</td>
<td>TLM: Technical Management</td>
</tr>
<tr>
<td>***  A number below 100 indicates a support course, which is usually not transferable to a BA-granting institution.</td>
<td></td>
</tr>
<tr>
<td>****Many career and technical degrees have specific transfer articulation agreements; check with Advising and Counseling Services.</td>
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</tbody>
</table>
Accounting
See BA—Business Administration

Allied Health
See also CH—Chemistry, DEN—Dental Assisting, EMT—Emergency Medical Technology, ES—Emergency Services, HE—Health Education, HM—Health Services Management, and NUR—Nursing

AH115 Healthcare Career Success Strategies
2 class hr/wk, 2 cr.
Prepares an applied approach to the introduction of health careers. Includes health career options and preparation requirements, professional behavior, teamwork and leadership, customer service, introduction to legal and ethical concepts, societal issues, health promotion and wellness, preventive procedures, and safety practices. Integrates academic success strategies with healthcare applications. F, W, Sp, Su

APR

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. F, W, Sp, Su

APR102 Advanced Trade Skills Fundamentals
3 class and 3 lab hr/wk, 4 cr.
Presents the second term of the Trade Skills Fundamentals courses. For registered youth apprentices in the construction trades. Covers CPR and First Aid, applied mathematics for limited maintenance electricians and millwrights, and print reading and construction drawings. Prerequisite: APR101 with a grade of C or better; or recommendation of Registered Youth Apprenticeship Committee; or consent of instructor. Offered as needed

APR104 TSF: Introduction to Plumbing Trade
3 class and 2 lab hr/wk, 4 cr.
Introduces basic plumbing practices and completion of minor repairs. Covers tools, safety, materials, codes, and plumbing career opportunities. Does not require previous knowledge or skill in plumbing. Upon successful completion, students may acquire points for selection in the plumbing apprenticeship trade. Su

APR105A Electrical Level 1A
1 class and 2 lab hr/wk, 2 cr.
Covers hand bending, fasteners, and anchors; electrical theory; electrical test equipment; and introduces the National Electrical Code. Prerequisite: MTH020 or equivalent course as determined by instructor or APR101; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F

APR105B Electrical Level 1B
1 class and 2 lab hr/wk, 2 cr.
Covers raceways, boxes, fittings, and conduitors; introduces electrical blueprints, commercial and industrial wiring, and residential wiring. Prerequisite: MTH020 or equivalent course as determined by instructor or APR101; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp, Su

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. F

APR153B Electrician Apprenticeship AC/DC Circuits
4 class and 2 lab hr/wk, 5 cr.
Provides training for the inside Wire Electrician apprentices. Covers mathematical formulas of equations, basic AC theory, use of test equipment, and applicable National Electrical Code (NEC). 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, inside Wireman Apprentices. 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.
Presents training for inside wire electrical apprentices. Includes requirements for wiring and installation of electrical devices, auxiliary gutters, raceways, fuses and overcurrent devices, wire devices, 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 inside Wire Electrical Apprentices. Includes requirements for wiring and installation of electrical devices, auxiliary gutters, raceways, fuses and overcurrent devices, and wire devices. Covers hazardous locations, busways, residential calculation, and applicable National Electrical Code. Prerequisite: APR153D 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 or consent of instructor. Sp

APR155A HVAC/R Apprenticeship Fundamentals
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. Designed for Oregon state recognized apprentices working in the HVAC/R trade. F

APR155B HVAC/R Soldering and Brazing
4 class and 2 lab hr/wk, 5 cr.
Focuses on soldering and brazing, bending and flaring tubing and steel piping. Introduces blueprints, reading mechanical and HVAC drawings, measuring, and drafting tools, refrigeration, matter and heat, compressors and condensers, evaporators, accessories, and minor components. Designed for Oregon state recognized apprentices working in the HVAC/R trade. Prerequisite: APR155A or consent of instructor. W

APR155C HVAC/R Apprenticeship Introduction to Code
4 class and 2 lab hr/wk, 5 cr.
Focuses on code compliance, moist air properties, commercial and residential heat loss and gain, job requirement surveys, estimating installation costs, and system operating costs. Designed for Oregon state recognized apprentices working in the HVAC/R trade. Prerequisite: APR155B or consent of instructor. Sp

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APR155D HVAC/R Apprenticeship Trade Math
4 class and 2 lab hr/wk, 5 cr.
Focuses on using basic algebra and trigonometry functions for HVAC, freehand sketching, preparing sheet metal developments, building and roof construction details, insulation requirements, fluid and pressure, and measuring temperature, fluids and pressure. Designed for Oregon state recognized apprentices working in the HVAC/R trade. Prerequisite: APR155C with a grade of C or better; or consent of instructor. F

APR155E HVAC/R Apprenticeship Introduction to Refrigeration
4 class and 2 lab hr/wk, 5 cr.
Focuses on an introduction to air conditioners, including refrigerant types and properties, vapor compression cycle, refrigerant flow devices, refrigeration and A/C piping, cooling towers, spray ponds, material handling, refrigeration recovery, and system charging. Also covers fuses and circuit breakers, resistors, capacitors and inductors, conductors, insulation, conduit, electrical drawings, wiring diagrams, schematics, and single phase motors. Designed for Oregon state recognized apprentices working in the HVAC/R trade. Prerequisite: APR155D with a grade of C or better; or consent of instructor. W

APR155F HVAC/R Apprenticeship Electricity and Magnetism
4 class and 2 lab hr/wk, 5 cr.
Focuses on electricity and magnetism, basic electricity, alternating current, electrical symbols, low voltage circuits, communication skills, and codes and regulations. Designed for Oregon state recognized apprentices working in the HVAC/R trade. Prerequisite: APR155E with a grade of C or better; or consent of instructor. Sp

APR158A Plumber Apprenticeship Fundamentals
4 class and 2 lab hr/wk, 5 cr.
Introduces related training for plumber apprentices in trade theory and practices. Includes an introduction to the trade, basic math, related science, plumbing code, blueprint reading, first aid and CPR. Prerequisite: Indentured 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 plumber apprentices to study theory and trade practices. Includes mathematics, installation practices, related plumbing code, health and safety, and blueprint reading and sketching. Prerequisite: APR158A with a grade of C or better; or consent of instructor. W

APR158C Plumber Apprenticeship Pipe Sizing
2 class and 1 lab hr/wk, 3 cr.
Provides training for plumber apprentices in the interpretation of plumbing code theory and practice. Focuses on current national plumbing code and Oregon amendments. 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 plumber apprentices. Includes installation and related codes, safety and CPR, 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 plumbing apprentices. Includes single occupancy installation and code, 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
2 class and 1 lab hr/wk, 3 cr.
Covers theory and trade practices for plumbing apprentices. Includes installation standards (I.S.) and reviews. Focuses on current national plumbing code and Oregon amendments. Prerequisite: APR158E with a grade of C or better; or consent of instructor. Sp

APR166A Sheet Metal Apprenticeship Fundamentals
4 class and 2 lab hr/wk, 5 cr.
Presents related training material consistent with the minimum skill requirements of the sheet metal trade. Includes architectural sheet metal, roof drainage systems, hoods, and ventilators. Prerequisite: APR166C with a grade of C or better; or consent of instructor. W

APR166B Sheet Metal Apprenticeship Fundamentals of Drawing
4 class and 2 lab hr/wk, 5 cr.
Presents related training material consistent with the minimum skill requirements of the sheet metal trade. Includes elements of blueprint reading, specifications, and application of SMACNA standard submetals, and mechanical codes. Prerequisite: APR166A with a grade of C or better; or consent of instructor. W

APR166C Sheet Metal Apprenticeship Fundamentals of Layout
4 class and 2 lab hr/wk, 5 cr.
Presents related training consistent with the minimum skill requirements of the sheet metal trade. Includes steel and other metals, principles of layout, sheet metal processes, and introduction to fabrications. Prerequisite: APR166B with a grade of C or better; or consent of instructor. Sp

APR166D Sheet Metal Apprenticeship Architectural Systems
4 class and 2 lab hr/wk, 5 cr.
Presents related training material consistent with the minimum skill requirements of the sheet metal trade. Includes parallel line development, hangers and supports, and insulation. Prerequisite: APR166C with a grade of C or better; or consent of instructor. F

APR253G Electrician Apprenticeship Safety and Code
4 class and 2 lab hr/wk, 5 cr.
Provides training for inside wire electrical apprentices. 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

APR253H Electrician Apprenticeship Motors and Controls
4 class and 2 lab hr/wk, 5 cr.
Offers training for inside wire electrical apprentices. Covers motors, generators, controls, and applicable national electrical code. Prerequisite: APR253G 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. Sp
APR253J Electrician Apprenticeship Math/Test Equipment
4 class and 2 lab hr/wk, 5 cr.
Offers related training for inside wire electrician apprentices. 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 inside wire electrician apprentices. 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:** APR253J 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 inside wire electrician apprentices. Includes theory and application of motor controls, solid state fundamentals, special termination, layout, hazardous locations and transformer locations. **Prerequisite:** APR253J with a grade of C or better; or consent of instructor. **F**

APR255G HVAC/R Apprenticeship Fuels
4 class and 2 lab hr/wk, 5 cr.
Focuses on fuels and combustion, gas and oil-fired heating equipment, combustion air and venting, electric resistance heating, air-source, and water-source heat pump systems. Designed for Oregon stated recognized apprentices working in the HVAC/R trade. **Prerequisite:** APR155F with a grade of C or better; or consent of instructor. **F**

APR255H HVAC/R Apprenticeship Residential Air Distribution
4 class and 2 lab hr/wk, 5 cr.
Focuses on residential air distribution systems and concepts, commercial air distribution systems, standards and codes for ducts and insulation, variable air volume systems, testing and balancing air distribution systems, water treatment and hydronic systems, dual purpose water heater installations, hydronic radiant heating (MRH), and hydronic system start-up and balancing. Designed for Oregon state recognized apprentices working in the HVAC/R trade. **Prerequisite:** APR255G with a grade of C or better; or consent of instructor. **W**

APR255I HVAC/R Apprenticeship Welding
4 class and 2 lab hr/wk, 5 cr.
Focuses on welding fundamentals and safety, gas and arc welding techniques, hydraulic systems and controls, steam systems, and communicating with customers. Designed for Oregon state recognized apprentices working in the HVAC/R trade. **Prerequisite:** APR255H with a grade of C or better; or consent of instructor. **Sp**

APR255J HVAC/R Apprenticeship Refrigeration Fundamentals
4 class and 2 lab hr/wk, 5 cr.
Focuses on commercial refrigeration applications, compressors, condensers, installation and start-up, service and troubleshooting, plans and specifications, and effective communications and record keeping. Designed for Oregon state recognized apprentices working in the HVAC/R trade. **Prerequisite:** APR255J with a grade of C or better; or consent of instructor. **F**

APR255K HVAC/R Apprenticeship Troubleshooting
4 class and 2 lab hr/wk, 5 cr.
Focuses on troubleshooting, mechanical problems, heat pump installations and start up, pneumatic controls, and control valve components and applications. 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. **W**

APR255L HVAC/R Apprenticeship Equipment/Room Layout
4 class and 2 lab hr/wk, 5 cr.
Focuses on moving HVAC equipment, equipment room layout, outdoor equipment location, troubleshooting techniques, and A/C systems and components. Designed for Oregon state recognized apprentices working in the HVAC/R trade. **Prerequisite:** APR255L 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 plumber apprentices in trade theory and practices. Includes installation of residential and commercial fixtures and appliances, use of mathematics related to gas and pipe sizing codes, 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 plumber apprentices in trade theory and practices. Includes commercial installation practices, related applied math and science, OSHA, safety, CPR, and Uniform Plumbing Code. **Prerequisite:** APR258G with a grade of C or better; or consent of instructor. **W**

APR258I Plumber Apprenticeship Code
2 class and 1 lab hr/wk, 3 cr.
Covers theory and trade practices for plumber apprentices. Focuses on current national plumbing code and Oregon amendments. **Prerequisite:** APR258H 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 plumber apprentices 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 uniform plumbing codes. **Prerequisite:** APR258I 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 plumber apprentices 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 Uniform Plumbing Code. Includes an examination review. **Prerequisite:** APR258J with a grade of C or better; or consent of instructor. **W**

APR258L Plumber Apprenticeship Code and Test Prep
2 class and 1 lab hr/wk, 3 cr.
Covers theory and trade practices for plumber apprentices. Focuses on current national plumbing code and Oregon amendments. **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.
Present related training material consistent with the minimum skill requirements of the sheet metal trade. Includes shop production and organization, estimating, field measuring and fitting, louvers, dampers, and access doors. **Prerequisite:** APR166F with a grade of C or better; or consent of instructor. **F**

APR266G Sheet Metal Apprenticeship Triangulation and Fiberglass
4 class and 2 lab hr/wk, 5 cr.
Presents related training material consistent with the minimum skill requirements of the sheet metal trade. Includes fabrication, triangulation, fiberglass and PVC ducts. **Prerequisite:** APR266F with a grade of C or better; or consent of instructor. **W**
ART115 Basic Design: Black and White
2 class and 4 lab hr/wk, 4 cr.
Introduces the basic principles of design, visual perception, and organization of visual elements in works of art. Explores black and white two-dimensional design. F, W, Su

ART116 Basic Design: Color
2 class and 4 lab hr/wk, 4 cr.
Introduces the basic principles of design, visual perception, and organization of visual elements in works of art. Focuses on color and two-dimensional design. F, W, Sp, Su

ART117 Basic Design: Three-Dimensional
2 class and 4 lab hr/wk, 4 cr.
Introduces the basic principles of design, visual perception, and organization of visual elements in works of art. Focuses on three-dimensional design. F, W, Sp

ART118 Digital Design and Color
2 class and 4 lab hr/wk, 4 cr.
Applies the basic principles of design, visual perception, and organization of visual elements in solving communication design problems. Focuses on digital design and color modes. Prerequisite: ART115 and VC114, both with a grade of C or better; or consent of instructor. Sp

ART131 Introduction to Drawing 1
2 class and 4 lab hr/wk, 4 cr.
Provides instruction in 2-dimensional drawing techniques. Emphasizes composition and introduces basic drawing skills designed for the beginner. Offers lectures, demonstrations, and training in traditional problem-solving techniques, composition and media. ART concepts, vocabulary and skills to critically analyze drawings. 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 observational drawing. ART131 and adds subjective drawing. Emphasizes composition and introduces additional drawing media and image sources. Discusses art concepts, vocabulary, and skills to critically analyze drawings. Prerequisite: ART131 with a grade of C or better; or consent of instructor based on portfolio review. Offered as needed

ART141 Introduction to Mural Painting
2 class and 4 lab hr/wk, 4 cr.
Introduces the historical background of mural making from its origins in Mexico to current community mural movements in the United States. Identifies a wide range of mural styles and trends. Considers practical information, skills and techniques. Applies this base knowledge to formulate and evaluate a personal approach to mural art, develop a mural proposal, and create a mural project. Constructs, along with the instructor, a local mural project through research, theme development, and execution with pertinent mural techniques. Recommended: ART115, ART116, and ART131, each with a grade of C or better. W, Sp

ART154 Pottery 1-Handbuilding
1 class and 4 lab hr/wk, 3 cr.
Introduces handbuilding ceramic objects. Includes basic form and design considerations as well as pinch, coil, slab, press mold, decoration, and glazing techniques. Emphasizes craftsmanship through slide lectures, demonstrations, and studio projects. F, W, Sp, Su

ART155 Pottery 2-Wheel Throwing
1 class and 4 lab hr/wk, 3 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. F, W, Sp, Su

ART156 Pottery 3-Intermediate Techniques
1 class and 4 lab hr/wk, 3 cr.
Expands on basic wheelthrowing skills through a series of intermediate projects. Includes producing and testing glazes, lidded containers, teapots, combined forms, altered forms, kiln theory and design, and alternative firing techniques. Prerequisite: ART154 and ART155, both with a grade of C or better; or consent of instructor based on portfolio. Sp, Offered as needed

ART201 Introduction to the Arts of East Asia: India and Southeast Asia, China, and Japan to 1300
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 WR115 with a grade of C or better; or consent of instructor. F, Sp

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 WR115 with a grade of C or better; or consent of instructor. F, W, Sp, Su

ART205 Introduction to Art History
4 class hr/wk, 4 cr.
Explores visual art in the Western tradition: Early Medieval through Roccoco: 500-1789 CE. Prerequisite: Placement into WR121; or WR115 with a grade of C or better; or consent of instructor. F, W, Sp
ART207 Graphic Design Literacy: Decoding Traditions of Visual Culture
4 class hr/wk, 4 cr.
Exposes 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. W, Su; CL

ART210 Topics in Art History
3 class hr/wk, 3 cr.
Focuses on the history of a specific art historical topic. Topics will vary and may include: historical styles/periods, genres, women artists, media. Prerequisite: Placement into WR121; or WR115 with a grade of C or better; or consent of instructor. Offered as needed

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; and demonstrated ability to work with vector graphic software; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) 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
3 class and 2 lab hr/wk, 4 cr.
Introduces the study of typography and its importance in contemporary culture and the design of visual communications. Prerequisite: VC111 and VC114, both with a grade of C or better; or consent of instructor. W

ART225 Type Design 2
3 class and 2 lab hr/wk, 2k, 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 1
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 ART 131 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: ART131 with a grade of C or better; or consent of instructor based on portfolio review. F, W, Sp, Su

ART235 Figure Drawing 2
2 class and 4 lab hr/wk, 4 cr.
Offers lectures, demonstrations, and continued individualized training in representational figure drawing skills begun in ART131 and ART234. Emphasizes anatomy, proportion, composition, and analytical skills. Introduces additional media, subjective or expressive drawing approaches, and vocabulary that build skills in critically analyzing drawings. Prerequisite: ART131 and ART234, both with a grade of C or better; or consent of instructor based on portfolio review. 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: ART265; and VC130 or equivalent course as determined by instructor; 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.
Introduces the basics of digital illustration. Prerequisite: VC139 with a grade of C or better; or demonstrated experience in vector graphics software and Photoshop; 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

ART247 Glass Fusing and Slumping 1
1 class and 4 lab hr/wk, 3 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 in progress. Recommended: ART115 and ART116, both with a grade of C or better. F, W, Sp, Su

ART247B Glass Fusing and Slumping–Intermediate
1 class and 4 lab hr/wk, 3 cr.
Provides intermediate skills and technical information on using an electric kiln and high-temperature molds to flat-fuse and form glass. Recommended: ART115 and ART116, both with a grade of C or better. Prerequisite: ART247, and completion of at least one of the following studio art classes: ART115, 116, or 117; ART244, 245, or 246; ART291, 292, or 293; ART154; 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

ART248 Kiln Cast Glass—Beginning
1 class and 4 lab hr/wk, 3 cr.
Provides introduction and technical information on casting solid sculptural glass forms and hollow glass containing forms using open and closed face molds. Includes an extension of the glass chemistry and finishing techniques presented in ART247. Recommended: ART115 and ART116. Prerequisite: ART247; and ART244, ART245, ART246, ART291, ART292, ART293, or ART154; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed
ART254 Pottery 4: Low-Fire Ceramics
2 class and 3 lab hr/wk, 3 cr.
Introduces low-fire ceramic materials, including both low-tech and high-tech application and processes. Prerequisite: ART154, ART155, and ART156; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.)
Offered as needed

ART256 Art as a Profession
3 class hr/wk, 3 cr.
Provides visual artists with the professional and business skills necessary to succeed in their own art business. Brings together marketing, promotion, presentation, employment, and education-related topics to establish an understanding of the business aspects involved in being a successful visual artist. Prerequisite: Completion of a studio art class; or experience with studio art; or consent of instructor. 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 course work or experience as determined by instructor. Offered as needed

ART261 General 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. Offered as needed

ART261D General Photography: Digital
2 class and 2 lab hr/wk, 3 cr.
Introduces digital photography camera handling, editing, and printing of digital images. Covers important photographic themes and composition. Offered as needed

ART262 Intermediate Photography
2 class and 4 lab hr/wk, 4 cr.
Introduces technical photography including studio lighting, for portraits and product work, color, photojournalism and art direction. Prerequisite: ART261 or ART265, either with a grade of C or better; or consent of instructor. Sp, Offered as needed

ART263 Photography: Special Topics
2 class and 4 lab hr/wk, 4 cr.
Emphasizes the freedom to experiment with photographic techniques. May include darkroom work, infrared black and white, toning techniques, compositing images and aesthetic issues. Prerequisite: ART261 or ART265, either with a grade of C or better; or consent of instructor. Offered as needed

ART265 Digital Photography 1
2 class and 4 lab hr/wk, 4 cr.
Investigates digital photography stressing competent SLR camera handling. Covers exposure control, digital management, image editing, printing, and presentation. Emphasizes important photographic themes, including still life, lighting, and composition. F, W, Offered as needed

ART266 Digital 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: ART265 with a grade of C or better; or consent of instructor. Sp, Offered as needed

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

ART269 Printmaking: Screen Printing 1
1 class and 4 lab hr/wk, 3 cr.
Introduces the methods, materials, and techniques of silkscreen printing, including the photo stencil process, and pulling prints. Emphasizes design approaches drawing on historical and contemporary examples, and development of personal imagery. Uses principles of design to create and critically analyze works in progress. Prerequisite: ART115, ART131, or ART261; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

ART270 Printmaking: Screen Printing 2
1 class and 4 lab hr/wk, 3 cr.
Continues skill building in techniques of silkscreen printing introduced in ART269, including photographic processes. Prerequisite: ART269 with a grade of C or better. F, W, Sp, Su

ART271 Printmaking: Photo Etching
1 class and 4 lab hr/wk, 3 cr.
Introduces the fundamental techniques used in making etchings as fine art prints. Includes contemporary photo processes, development of personal imagery, and technical understanding of the printing process. Emphasizes design approaches, drawing on historical and contemporary examples. Uses principles of design to create and critically analyze works in progress. Prerequisite: ART115, ART131, or ART261; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

ART272 Printmaking: Woodcuts and Linocuts
1 class and 4 lab hr/wk, 3 cr.
Offers studio experience and instruction in techniques used in making woodcuts and linoleum block prints. Emphasizes studio practice, experimentation, and development of style as a means of personal expression. Emphasizes design approaches, drawing on historical and contemporary examples. Uses principles of design to create and critically analyze works in progress. Prerequisite: ART115, ART131, or ART261; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

ART273 Printmaking: Monoprints
1 class and 4 lab hr/wk, 3 cr.
Offers studio experience and instruction in techniques used in making monoprints and monotypes as fine art prints. Introduces studio practice, experimentation, and development of style as a means of personal expression. Emphasizes design approaches, drawing on historical and contemporary examples. Uses principles of design to create and critically analyze works in progress. Prerequisite: ART115, ART131, or ART261; or consent of Instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

ART274 Printmaking: Woodcut
1 class and 4 lab hr/wk, 3 cr.
Continues skill building in techniques of silkscreen printing introduced in ART270, including photographic processes. Prerequisite: ART270 with a grade of C or better. F, W, Sp, Su

ART275 Printmaking: Screen Printing 3
1 class and 4 lab hr/wk, 3 cr.
Offers studio practice in the expressive and technical principles of screen printing. Emphasizes skill development and use of composition, color, and various stencil processes to achieve an expressive visual form. Prerequisite: ART274 with a grade of C or better. F, W, Sp, Su
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, both 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, W, Sp; CL

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, gracefulfulness 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: ART281 with a grade of C or better; or consent of instructor based upon demonstration of fundamental painting and drawing skills. F, W, Sp; CL

ART281C Painting 3
2 class and 4 lab hr/wk, 4 cr.
 Execute a variety of painting techniques with a greater degree of intention, gracefulfulness and accuracy. Emphasizes individual expression and thematic development. Explores the larger context of historical and contemporary painting processes, materials and genres is explored in relation to personal work and philosophy. Stress written and oral critical analysis. For advanced students with a strong foundation in painting and drawing and an ability to work independently. Prerequisite: ART281B with a grade of C or better; or consent of instructor based upon demonstration of intermediate painting and foundation drawing skills. F, W, Sp; CL

ART282 Landscape Painting
1 class and 4 lab hr/wk, 3 cr.
Introduces fundamental approaches and techniques of painting, focusing on elements affiliated with landscape painting. Includes introduction to materials, color theory, illusionery depth devices, and historical and contemporary approaches. Engages both beginning and intermediate painters who have strong fundamental drawing skills. Recommended: ART115 and ART116, both with a grade of C or better. Prerequisite: ART131 with a grade of C or better; or consent of instructor based upon demonstrated skill in drawing. Offered as needed

ART283 Ceramic Sculpture
1 class and 4 lab hr/wk, 3 cr.
Introduces the characteristics and potential of clay as a sculptural material. Recommended: ART117 with a grade of C or better. W

ART284 Watercolor
1 class and 4 lab hr/wk, 3 cr.
Introduces technical issues in watercolor as a medium and its potential for personal expression. Incorporates composition, color theory and observation of detail. Emphasizes design approaches, drawing on historical and contemporary examples. Uses principles of design to create and critically analyze works in progress. Recommended: ART115 and ART116, both with a grade of C or better. Prerequisite: ART131 with a grade of C or better; or consent of instructor based upon demonstrated skill in drawing. Offered as needed

ART285 Intermediate Watercolor
1 class and 4 lab hr/wk, 3 cr.
Emphasizes skill building and technical control of the watercolor medium. Prerequisite: ART284 with a grade of C or better; or consent of instructor. Offered as needed

ART286 Advanced Watercolor
1 class and 4 lab hr/wk, 3 cr.
Emphasizes enhanced skill development and exploration of watercolor as a creative medium. Prerequisite: ART284 and ART285, both with a grade of C or better; or consent of instructor. Offered as needed

ART287 The Medium and the Message
2 class and 4 lab hr/wk, 4 cr.
Contemporary exploration of historic art icons in specific visual media using thematic study and hands-on learning. Media projects will focus on contemporary issues. Historical content reflecting themes across different cultures and time periods will be paired with design challenges in various media. Offered as needed; CL

ART289 The Beginning Sculpture
1 class and 4 lab hr/wk, 3 cr.
Introduces the use of materials, tools, and methods of sculpture. Explores the three-dimensional form and its potential for personal expression. Emphasizes design approaches, drawing on historical and contemporary examples. Uses principles of design to create and critically analyze works in process. Recommended: ART117 with a grade of C or better. F

ART291 Beginning Sculpture
1 class and 4 lab hr/wk, 3 cr.
Introduces the use of materials, tools, and methods of sculpture. Explores the three-dimensional form and its potential for personal expression. Emphasizes design approaches, drawing on historical and contemporary examples. Uses principles of design to create and critically analyze works in process. Recommended: ART117 with a grade of C or better. F

ART292 Ceramic Sculpture
1 class and 4 lab hr/wk, 3 cr.
Introduces the characteristics and potential of clay as a sculptural material. Recommended: ART117 with a grade of C or better. W

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. Sp

American Sign Language

ASL111 First Year American Sign Language, Term 1
4 class hr/wk, 4 cr.
Introduces American Sign Language (ASL), supported by expressive and receptive readiness activities, finger-spelling techniques, vocabulary, grammar, and guided communication. Covers Deaf Culture and community as well as historical aspects through reading, writing, and short signed or video-recorded conversations. Uses ASL as the primary language in the classroom. Course has an online component that requires students to use Internet resources for coursework. Prerequisite: Internet skills. F, W, Sp, Su

ASL112 First Year American Sign Language, Term 2
4 class hr/wk, 4 cr.
Continues study in American Sign Language (ASL), supported by vocabulary, grammar, and guided conversation. Introduces various sign system 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. Uses ASL as the primary language in the classroom. Course has an online component that requires students to use Internet resources for coursework. Prerequisite: ASL111 with a grade of C or better within the past year; and Internet skills; or consent of instructor. W, Sp, Su, Offered as needed

ASL113 First Year American Sign Language, Term 3
4 class hr/wk, 4 cr.
Continues American Sign Language (ASL), supported by vocabulary, grammar, and active communication. Presents Deaf Culture and community as well as historical aspects through reading, writing, and short signed or video-recorded presentations. Uses ASL as the primary language in the classroom. Course has an online component that requires students to use Internet resources for coursework. Prerequisite: ASL112 with a grade of C or better within the past year; and Internet skills; or consent of instructor. Sp, Su, Offered as needed
ASL211 Second Year American Sign Language, Term 1
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 literature. Continues study in complex grammatical structures. Explores issues pertaining to the Deaf Community and multiculturalism, not limited to ethnic differences but also other perspectives including Deaf with other disabilities and gay, lesbian and transgender cultural issues. Uses ASL for classroom interaction and instruction. Course has an online component that requires students to use Internet resources for coursework. Prerequisite: ASL113 with a grade of C or better within the past year; and Internet skills; or consent of instructor. F, Offered as needed

ASL212 Second Year American Sign Language, Term 2
4 class hr/wk, 4 cr.
Continues development of expressive and receptive skills learned in ASL211. Expands vocabulary and continues study in forms of ASL literature. Also continues complex grammatical structures. Explores concepts of linguistics as it relates to variations in ASL. Emphasizes current research as well as field work. Introduces basic transcription and analysis of signing from video/digital as well as interviews. Uses ASL for classroom interaction and instruction. This course has an online component that requires students to use Internet resources for coursework. Prerequisite: ASL211 with a grade of C or better within the past year; and Internet skills; or consent of instructor. W, Offered as needed

ASL213 Second Year American Sign Language, Term 3
4 class hr/wk, 4 cr.
Continues development of expressive and receptive skills learned in ASL212. Expands vocabulary and continues study and performance of forms of American Sign Language (ASL) literature. Continues to analyze complex grammatical structures. Explores concepts of linguistics as it relates to variations in ASL. Emphasizes current research as well as field work. Performs more advanced transcription and analysis of signing from video/digital as well as interviews. Uses ASL for classroom interaction and instruction. This course has an online component that requires students to use Internet resources for coursework. Prerequisite: ASL212 with a grade of C or better within the past year; and Internet skills; or consent of instructor. Sp, Offered as needed

Astronomy
See PH–Physics

ATH

Anthropology

ATH101 Human Evolution
4 class hr/wk, 4 cr.
Studies the processes of the biocultural evolution of humans with an emphasis on the evolutionary theory from several belief systems. Include 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. 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 archeological 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. 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 socio-cultural 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. 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. 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 cultigens, ceramics, settlements, and the establishment of traditional Mesoamerican cultural traits and cosmologies. The innovations of the Preclassic, Classic, Epi-classic, and Post-classic Periods, and the rise and fall of the Aztec state are examined through archeological, ethnographic, and ethnohistoric evidence. Major Mexican and Mayan archeological sites of Mesoamerica are discussed with an emphasis on change through time. 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 archeological sites of Mexico are initially discussed, as well as specific cultural innovations of the Classic, Epi- and Post-classic periods. Offered as needed

ATH215 Early Greek/Aegean Archeology
4 class hr/wk, 4 cr.
Explores early Greek culture (10,000 BC - 1,000 BC) with an emphasis on the Bronze Age and the islands of the Aegean. Includes trade, exploitation of natural resources, material culture elaboration, and the development of maritime orientation and marine based faunal ritualization and cosmologies. Also covers the role of Crete and other Aegean islands in trade and craft/specialty food production, and the relationships with Egypt, Syria, and the Mediterranean world. 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. 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 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, AUM158, and AUM184; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) 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, AUM158, and AUM184; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

AUM158 Automotive Steering and Suspension
3 class and 6 lab hr/wk, 5 cr.
Prepares 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. F

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. W

AUM161 Manual Drive Train and Axles 1
3 class and 6 lab hr/wk, 5 cr.
Introduces theory and service of automotive powertrains 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, AUM158, 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, both 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, pedal 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
1 class and 4 lab hr/wk, 3 cr.
Covers theory and application in automotive internal combustion engines. Stresses speed and accuracy of 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

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, both 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, both 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, both 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, both 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.
Presents 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

BA Business Administration

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, handheld 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

BA177 Payroll
4 class hr/wk, 4 cr.
Offers a comprehensive overview to both federal and State of Oregon 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. (All prerequisite courses must be completed with a grade of C or better.) 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 problem-solving, and learning 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; 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 BA101 with a grade of C or better; or consent of instructor. F, W, Sp, Su

BA209 Introduction to Social Media
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. Recommended: Placement into RD090 and WR121; and computer literacy. 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 manager’s 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: BT120 or WR121, either with a grade of C or better; touch keyboarding at 30 wpm; or consent of instructor. F, W, Sp, Su

BA215 Cost Accounting
4 class hr/wk, 4 cr.
Analyzes methods of detailed and specific identification of cost elements within the business enterprise. Focuses on job order process and standard cost accounting systems, and their related theory. Emphasizes principles, techniques and managerial use of cost accounting data, and the use of budget and performance reports as they relate to cost accounting. Prerequisite: BA212; and CIS125E or BA225; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better) F, W, Sp, Su

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. 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 value and internal rate of return), cost of capital, cash and credit management. Recommended: Placement into RD090 and WR121; and completion of BA212, CIS125E, and MTH070 or higher. (All recommended courses must be completed 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 BA101, BA211, and CIS125E. (All recommended courses must be completed 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 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, agency and partnership law. Recommended: Placement into RD090 and WR121; and completion of BA101 with a grade of C or better. Offered as needed

BA228 Computer Accounting Applications
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, and charting. Prerequisite: BA115 or BA211, either with a grade of C or better; and computer literacy; or consent of instructor. F, W, Sp, Su
BA230 Financial Statement Analysis 4 class hr/wk, 4 cr.
Provides a fundamental understanding of how to interpret accounting data presented in financial statements. Demonstrates popular tools and techniques in analyzing and interpreting financial statements with an emphasis on the needs of users of financial statements. Applies basic concepts and conventions to the construction of financial statements. Emphasizes the interpretation of financial data by means of comparative statements, and trend percentages. Includes detailed analysis of working capital and extensive use of various financial ratios. **Prerequisite:** BA213; and CIS125E or BA225; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **Offered as needed**

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. **W**

BA235 Principles of Public Procurement 4 class hr/wk, 4 cr.
Covers principles of public procurement for the State of Oregon including, but not limited to, methods, laws, rules, policies, procedures, executive orders, and best practices as they relate to basic purchasing and cross-cutting procurement themes (definitions, ethics, regulations, risk, sustainability). **Recommended:** Placement into RD090 and WR121; and completion of BA101 with a grade of C or better. **F**

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. **W, Sp, Su**

BA238 Sales and Persuasion 3 class hr/wk, 3 cr.
Emphasizes behavioral sciences, sales psychology and techniques, and communication. Attention is given to sales of ideas and attitudes internal to the firm, as well as product or service to the customer. **Recommended:** College level reading and writing. **Recommended:** Placement into RD090 and WR121, and completion of BA101 with a grade of C or better. **F, W, Sp**

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 project 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:** BA211 with a grade of C or better; or consent of instructor. **W**

BA242 Investments 4 class hr/wk, 4 cr.
Explains individual investment opportunities as part of an investor's portfolio. Covers how investors may consolidate and coordinate previous experiences with basic information and data in order to survive in the marketplace. **Prerequisite:** Placement into RD090 and WR121, and BA212, CIS125E, and MTH070 or higher; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **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, Su**

BA250 Small Business Management 3 class hr/wk, 3 cr.
Introduces basic aspects of managing a small business, including planning, organizing, staffing, actuating and controlling. General functions and procedures used in the operation of a small business. **Prerequisite:** Second year standing; or consent of instructor. **Offered as needed**

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. **F**

BA254 Fraud, Auditing, and Forensic Accounting 4 class hr/wk, 4 cr.
Focuses on identifying investigation techniques in forensic accounting, auditing, and fraud. **Prerequisite:** BA213 and BA226, both with a grade of C or better; or consent of instructor. **Offered as needed**

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 and the IRS Registered Tax Return Preparer exam. **F, Sp, Su**

BA259 Internal Auditing 4 class hr/wk, 4 cr.
Covers the fundamental audit concepts that internal auditors need to know and understand. Includes the Professional Practices Framework, performance standards, ethics, enterprise-wide governance principles, risk management, COSO framework, business processes and risks, internal control, information technology risks and controls, fraud risks and controls, managing the internal audit function, gathering and documenting audit evidence, communicating results to management, and following up on audit recommendations. **Prerequisite:** BA212; and CIS125E or BA225; and MTH070 or higher; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **Offered as needed**
BA265 Transition to Intermediate Accounting  
4 class hr/wk, 4 cr.  
Prerequisite: BA13; and CIS125E or BA225; or consent of Instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

BA266 Intermediate Financial Accounting 1  
4 class hr/wk, 4 cr.  
Studies the environment and development of accounting principles, basic theory, accounting process, statement of income and retained earnings, statement of financial position, present value, and monetary assets.  
Prerequisite: Placement into MTH095 or higher; or completion of MTH070 or higher; SSP125; and BA225 or CIS125E; and BA213; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better); F, W, Sp, Su

BA267 Intermediate Financial Accounting 2  
4 class hr/wk, 4 cr.  
Studies plant assets, depreciation, depletion, intangible assets, long-term liabilities, issuance and re-acquisition of capital stock, additional paid-in capital and retained earnings, dilutive securities and earnings per share calculations, long-term investments in securities and funds, and revenue recognition.  
Prerequisite: BA266 with a grade of C or better; or consent of instructor. W

BA268 Intermediate Financial Accounting 3  
4 class hr/wk, 4 cr.  
Offers a comprehensive study of revenue recognition, accounting changes, error analysis, income taxes, pension plans, leases and cash flow statements.  
Prerequisite: BA267 with a grade of C or better; or consent of instructor. Sp

BA275 Quantitative Business Methods  
4 class hr/wk, 4 cr.  
Prerequisite: BA13 and CIS125E, both with a grade of C or better; or consent of instructor. 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 various business settings.  
Recommended: Placement into RD090 and WR121; and completion of BA101 with a grade of C or better. F, W, Sp, Su

BA280B-L Cooperative Work Experience  
See CWE–Cooperative Work Experience.

BA285 Organizational Behavior  
4 class hr/wk, 4 cr.  
Explores interpersonal relations in an organization. Includes effective verbal and non-verbal communication styles, interviewing skills, co-worker relations considering individual and cultural differences, customer relationships, conflict management, and power and politics. Recommended: Placement into RD090 and WR121; and completion of BA101 with a grade of C or better. F, W, Sp, Su

BI

Biology

BI060 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 cell biology, microbiology, oral histology and embryology, and head and neck anatomy. Includes practical application of problem solving, scientific observation and measurement, use of equipment and basic laboratory techniques. W, Sp, Offered as needed

BI101 General Biology 1  
3 class and 3 lab hr/wk, 4 cr.  
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). Introductory biology course designed for students not majoring in biology or a biology-related field. Includes two mandatory field trips. F, Sp, Offered summer as needed

BI102 General Biology 2  
3 class and 3 lab hr/wk, 4 cr.  
Investigates cell structure, cell division, Mendelian genetics, and principles of evolution. Introduces modern techniques in biotechnology and discusses their ethical implications. Introductory biology course designed for students not majoring in biology or biology-related fields. F, W, Sp, Offered summer as needed

BI103 General Biology 3  
3 class and 3 lab hr/wk, 4 cr.  
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. Introductory biology course designed for students not majoring in biology or a biology-related field. Includes a mandatory field trip. F, W, Sp, Offered summer as needed

BI131 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. F

BI132 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: BI131 or BI101, either with a grade of C or better; or consent of instructor. W

BI133 Environmental Science 3  
3 class and 3 lab hr/wk, 4 cr.  
Examines environmental problems and issues related to environmental contamination such as air and water pollution, solid waste disposal, and pesticide use. Explores relationships between environmental problems and other aspects of society. Prerequisite: BI132 with a grade of C or better; or consent of instructor. Sp

BI143 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), and other marine environments. Evaluates marine life found along Oregon's coastal environments and the adaptations to a marine existence; particular emphasis on the ecology, physiology, and morphology of marine plants and animals. Sp

BI153 Fundamentals of Plant Biology  
3 class and 3 lab hr/wk, 4 cr.  
Covers the basic structure, life cycles, genetics, and functions of plants. Meets a science with lab requirement for non-science majors. Serves as background for students in the Horticulture and Viticulture programs. F, Sp, Offered as needed

BI171 Introduction to Human Anatomy and Physiology 1  
2 class and 2 lab hr/wk, 3 cr.  
Introduces the normal structure and function of the human body from the chemical level to the systems level, focusing on homeostasis and system integration. Includes lecture, activities, laboratories, and student projects. F, Offered as needed.

BI172 Introduction to Human Anatomy and Physiology 2  
2 class and 2 lab hr/wk, 3 cr.  
Introduces the normal structure and function of the human body from the chemical level to the systems level, focusing on homeostasis and system integration. Includes lecture, activities, laboratories, and student projects. Prerequisite: BI171 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: BI101 or BI131, either with a grade of C or better; or equivalent course as determined by instructor or consent of instructor. 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: CH121 or CH221, either with a grade of C or better; or consent of instructor. F, Offered as needed

BI212 Principles of Biology 2  
4 class and 3 lab hr/wk, 5 cr.  
Focuses on cell structure and metabolism, the cell cycle 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: BI211 with a grade of C or better; or consent of instructor. W, Offered as needed

BI213 Principles of Biology 3  
4 class and 3 lab hr/wk, 5 cr.  
Focuses on classical and molecular genetics, DNA structure and function, biotechnology, evolution and ecology. Offers third 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: BI212 with a grade of C or better; or consent of instructor. 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. Uses standard microbiological laboratory techniques. W, Offered as needed

BI231 Human Anatomy and Physiology  
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: 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 term of accelerated college chemistry within the last seven years equivalent to the courses mentioned above; or consent of instructor. All prerequisite courses must be completed with a grade of C or better. F, W, Sp, Offered summer as needed

BI232 Human Anatomy and Physiology  
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, circulatory, lymphatic, and respiratory systems. Prerequisite: BI231 with a grade of C or better within the last seven years; and concurrent enrollment in CH106 or CH123 if taking a chemistry sequence; or consent of instructor. F, W, Offered as needed

BI233 Human Anatomy and Physiology  
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 body fluids, electrolytes, pH balance and medical genetics. Prerequisite: BI232 with grade of C or better within the last seven years; or consent of instructor. F, W, Sp, Offered as needed

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: BI231 with a grade of C or better within last seven years; or consent of instructor. F, W, Sp, Offered summer as needed

BI251 Principles of Wildlife Conservation  
3 class hr/wk, 3 cr.  
Introduces the principles and practices of wildlife conservation and management. Covers the history of wildlife conservation, basic ecological concepts, human impact on wildlife and habitat, social and economic issues relating to wildlife management, and management objectives and strategies for fisheries and wildlife populations. Sp

BLD Building Inspection Technology  

BLD151 Building Codes 1  
3 class hr/wk, 3 cr.  
Studies the scope, meaning, and use of the Model International Residential Code including occupancy classifications, building area, height and location limitations, types of construction, exits, and fire resistant 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

BLD267 Non-Structural Plan Review  
2 class and 3 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: BLD151 and BLD152, both with a grade of C or better; or consent of instructor. Sp

BT Business Technology  

BT104 Business English 1  
3 class hr/wk, 3 cr.  
Emphasizes basic English skills including spelling, parts of speech, sentence patterns, terminal punctuation, and dictionary use. Applies these skills to writing and speaking in clear, concise sentences. F, W, Sp

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. F, W, Sp

BT112 Proofreading/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. W, Sp
BT131B Electronic Calculators B
1 class hr/wk, 1 cr.
Continues BT131A. Applies the functions of an electronic calculator to solve business problems. Includes calculating percentages, simple interest, trade discounts, payroll, and consumer installment buying. Stresses speed and accuracy in touch operation of the calculator. Prerequisite: MTH060 or higher and BT131A, both with a grade of C or better; or consent of instructor. W, Sp

BT131A Electronic Calculators A
1 class hr/wk, 1 cr.
Introduces use of electronic calculators to solve problems involving addition, subtraction, multiplication, division, and constants. Includes speed and accuracy in touch operation of the calculator. W, Sp

BT272 Virtual Office 1
4 class hr/wk, 4 cr.
Introduces aspects of virtual offices. Covers topics including formatting and enhancing text, working with art, Design Gallery and drawing tools, and using the Catalog feature for creating publications. Prerequisite: Computer literacy and touch keyboarding ability of 25 words per minute; or consent of instructor. F, W, Sp

CA

Computer Applications

CA100 Beginning Computing
3 class hr/wk, 3 cr
Explores beginning computer concepts and uses, the evolution of the computer, and application skills as they apply to the business/office environment. Introduces operating systems/file management, various software and computer devices for business/office use, and accessing information via the Internet/Social Media. Prerequisite: Touch keyboarding ability; or consent of instructor. Offered as needed

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; using BorderArt, WordArt, text wrap and mail merge. Covers features for improving publications design, creating multiple-page publications, and creating a web site. Prerequisite: Computer literacy and touch keyboarding ability of 25 words per minute; or consent of instructor. F, W, Sp

CA117A Microsoft Publisher 1
1 class hr/wk, 1 cr.
Provides part one of a hands-on introduction to Microsoft Publisher publication software. Covers topics including formatting and enhancing text, working with art, Design Gallery and drawing tools, and using the Catalog feature for creating publications. Prerequisite: Computer literacy and touch keyboarding ability of 25 words per minute; or consent of instructor. Offered as needed
CA117B Microsoft Publisher 3
1 class hr/wk, 1 cr.
Offeres part three of a hands-on introduction to Microsoft Publisher publication software. Includes using tools, floating text into multiple columns, and creating drop caps and reversed text. Covers features for improving publications and creating multiple-page publications. Prerequisite/Corequisite: CA117A with a grade of C or better, or equivalent course as determined by instructor or consent of instructor. (Offered as needed)

CA117C Microsoft Publisher 3
1 class hr/wk, 1 cr.
Provides part of a hands-on introduction to Microsoft Publisher publication software. Includes using special features such as BorderArt, WordArt, text wrap around objects, mail merge and preparation for commercial printing. Covers features for working efficiently and creating a Web site. Prerequisite/Corequisite: CA117B with a grade of C or better, or equivalent course as determined by instructor; computer literacy and touch keyboarding ability of 25 words per minute; or consent of instructor. (Offered as needed)

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 the accessories. F, W, Sp, Su

CA118B1 Excel Basics 1
1 class hr/wk, 1 cr.
Introduces building and editing worksheets, formatting and printing worksheets, working with formulas and functions, and charting in MS Excel. Prerequisite: Computer literacy and touch keyboarding ability; or consent of instructor. F, W, Sp, Su

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. F, W, Sp, Su

CA118B3 Excel Basics 3
1 class hr/wk, 1 cr.
Focuses on developing independent decision-making skills when creating worksheets and charts. Introduces what-if analysis, macros, PivotTables and PivotCharts, linking, embedding, and exploring MS Excel options. Prerequisite/Corequisite: CA118B2 with a grade of C or better; or consent of instructor. W, Sp

CA118C1 Access Basics 1
1 class hr/wk, 1 cr.
Introduces database basics for forms design, data entry, queries, tables, and reports. Prerequisite: F, W, Sp

CA118C2 Access Basics 2
1 class hr/wk, 1 cr.
Reinforces basic database skills. Introduces multiple table and action queries; PivotTables and PivotCharts; forms and subforms; and importing, exporting, and publishing data. Prerequisite/Corequisite: CA118C1 with a grade of C or better; or consent of instructor. F, W, 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 information currently needed by office professionals. Prerequisite: CA118A or CIS101, either with a grade of C or better; or consent of instructor. F, W, Sp

CA118E Outlook Basics
1 class hr/wk, 1 cr.
Introduces personal information management software currently used in business and industry. Covers electronic messaging (e-mail management), use of the address book, and calendar and task management using MS Outlook. Prerequisite: Computer literacy and touch keyboarding ability; or consent of instructor. F, W

CA118F1 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: Computer literacy and touch keyboarding ability; or consent of instructor. F, W

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 using Adobe InDesign. Prerequisite: CIS101 with a grade of C or better; and touch keyboarding ability of 25 words per minute; or consent of instructor. F

CA121A Keyboarding A
1 class hr/wk, 1 cr.
Covers basic touch keyboarding of the alphabetic keys for the standard microcomputer keyboard. F, W, Sp, Su

CA121B Keyboarding B
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. 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

CA121C Keyboarding C
1 class hr/wk, 1 cr.
Emphasizes drills to increase speed and accuracy in touch keyboarding. Includes accurate proofreading and calculating scores for 3-minute timings. 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

CA122A, B, C Keyboard Skillbuilding
1 class hr/wk, 1 cr. each
Improves keyboarding skill, including keyboard proficiency, speed, and accuracy. Serves as preparation for production keyboarding as well as general skill development. Covers basic document formatting. Prerequisite: Touch keyboarding ability of 25 words per minute (30 words per minute recommended); or consent of instructor. F, W, Sp, Su

CA122B with a grade of C or better; or consent of instructor. CA122C: CA122B with a grade of C or better; or consent of instructor. CA122C:  CA122A with a grade of C or better; or consent of instructor. F, W, Sp, Su

CA201D Microsoft Word Processing 1
3 class hr/wk, 3 cr.
Presents basic word processing training in the operation of Microsoft Word software. Includes character, paragraph, and page formatting options. Word features, as well as correct formatting of business letters, memos, and reports. Prerequisite: Touch keyboarding ability of 30 words per minute; or consent of instructor. F, W, Sp, Su
CA201D1-D3 Microsoft Word Processing 1, Parts 1-3
2 lab hr/wk, 1 cr. each
Offers basic to intermediate word processing and document formatting training in the operation of Microsoft Word for Windows. Prerequisite: CA201D1: Touch keyboarding ability of 35 words per minute; or consent of Instructor. CA201D2: CA201D1 with a grade of C or better; or consent of instructor. CA201D3: CA201D2 with a grade of C or better; or consent of instructor. Offered as needed

CA202D 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: CA201D with a grade of C or better; and touch keyboarding ability of 35 wpm; or consent of instructor. F, W, Sp

CA202D1-D3 Microsoft Word Processing 2, Parts 1-3
2 lab hr/wk, 1 cr. each
Offers intermediate word processing training using Microsoft Word software for persons with prior basic skills and knowledge of word processing. Prerequisite/Corequisite: CA202D1: CA201D or equivalent as determined by instructor, with a grade of C or better; and touch keyboarding ability of 35 wpm. CA202D2: CA202D1 or equivalent as determined by instructor, with a grade of C or better; and touch keyboarding ability of 35 words per minute. CA202D3: CA202D2 or equivalent as determined by instructor, with grade of C or better; and touch keyboarding ability of 35 words per minute. Offered as needed

CA205 PageMaker 1
3 class hr/wk, 3 cr.
Offers a hands-on microcomputer desktop publishing course providing beginning level training in the use of Adobe PageMaker desktop publishing software. Includes setting up and printing publications, importing and formatting text and graphics, using styles, using graphics tools, using spot color and tints, and using layers and frames. Prerequisite: Computer literacy and touch keyboarding ability of 25 words per minute; or consent of instructor. Offered as needed

CA208 Workplace Presentation with PowerPoint
3 class hr/wk, 3 cr.
Introduces the preparation of computer presentations for the workplace using current presentation software. Includes software techniques, design and typography basics, and production techniques for screen shows. Prerequisite: CIS101 with a grade of C or better; or equivalent as determined by the instructor; or consent of instructor. F, 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/Corequisite: BT116, CA118A, CA118E1, CA118C1, CA201D, and CIS101; and BT210 or concurrent enrollment; 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: CA202D and CA119, both with a grade of C or better; and touch keyboarding ability of 25 words per minute; 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, Sp

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 CD ROM dictation and printed rough drafts. Develops basic skill in the transcription of recorded documents. Stresses application of language arts skills. Develops the skill to produce documents accurately within specified timed guidelines and touch type at a minimum of 40 words per minute on 3-minute timings (with specified error limits). Prerequisite: BT105, BT112 and CA201D; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

CAM Computer-Aided Manufacturing

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

CAM061 Practical Applications 1
3 lab hr/wk, 1 cr.
Provides practice in the CAD/CAM program to refine previously learned skills. Includes projects or exercises as determined by the 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

CAM100 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

CAM105 Precision Measurement
1 class and 3 lab hr/wk, 2 cr.
Covers the selection and application of linear English and metric measuring and inspection tools and equipment used in manufacturing. F

CAM110A CNC/Manual Fundamentals
2 class and 6 lab hr/wk, 4 cr.
Introduces the fundamentals of machining processes and measuring instruments. Covers the use of basic hand tools, drill presses, power saws, pedestal grinders, arbor presses, basic layout and layout tools and measuring tools. Includes proper use of measuring tools, the use of appropriate charts and tables including decimal equivalent and drill and tap selection with speed and feed calculations. Provides orientation to machine shop manufacturing with emphasis CNC and working in teams. F
CAM111 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 business and industry. F

CAM115 Geometric Dimensioning/Tolerancing
2 class hr/wk, 2 cr.
Covers geometric dimensioning and tolerancing principles based on ANSI/ASME standards. Computation of tolerance values required insuring proper fit and function. Emphasizes measurement and inspection required to match design specifications. Prerequisite: DRF130 with a grade of C or better; and print reading experience as confirmed by instructor; or consent of instructor. W

CAM116 Geometric Dimensioning/Tolerancing for CNC Lab
3 lab hr/wk, 1 cr.
Covers practical application of geometric concepts and practices related to surface plate and coordinate measuring machine technology. Emphasizes industry standard interpretation of geometric dimensioned engineering drawings and recognition of the correct setup method and procedure necessary to manufacture and inspect parts according to functional requirements. Prerequisite/Corequisite: CAM115 with a grade of C or better; or consent of instructor. W

CAM120 CNC/Manual Milling
2 class and 6 lab hr/wk, 4 cr.
Covers basic milling processes, work holding methods, cutter identification and selection and use, speeds and feeds, adaptors, tool holders and application. Includes operation of CNC Vertical Machining Center and vertical and horizontal manual milling machines, applying related operational theory. Prerequisite: CAM110 with a grade of C or better; or consent of instructor. W

CAM121A CNC/Manual Lathe
2 class and 6 lab hr/wk, 4 cr.
Introduces turning operations as related to CNC machining with emphasis on work holding methods and tool holding/selection methods. Covers related hole-making process, facing, tapping, grooving, and parting. Includes operation of CNC turning center and manual lathes, 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) computers 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: CAM121A with a grade of C or better; consent of instructor. W

CAM160 Programming CNC Mills
2 class and 6 lab hr/wk, 4 cr.
Introduces Computer Numerical Control (CNC) programming for milling applications and operations related to manufacturing. Prerequisite: Consent of instructor. W

CAM190 Programming CNC Lathes
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 with a grade of C or better; or consent of instructor. Sp

CAM210A Production/Assembly Control Methods
2 class hr/wk, 2 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. Also includes applications with CNC machinery. Prerequisite: CAM120 and CAM121A, both with a grade of C or better; or consent of instructor. F

CAM210B Production/Assembly Control Methods–Lab
6 lab hr/wk, 2 cr.
Uses computers and manufacturing equipment to plan for and carry out assigned projects. Provides advanced instruction in the setup, care, and use of manufacturing equipment, such as lathes, mills, grinders, inspection equipment, and peripherals. Corequisite: CAM210A or consent of instructor. F

CAM220A Advanced Lathe Processes–Lab
2 class hr/wk, 2 cr.
Covers advanced lathe theory and operations. Includes lathe settings, boring, single-point, threading, knurling, calculations, controls, taper attachments, follower rests, steady rests, and advanced tooling, safety, and work-holding applications. Prerequisite: CAM121A with a grade of C or better; or consent of instructor. W

CAM220B Advanced Lathe Processes–Lab
6 lab hr/wk, 2 cr.
Provides practice for application of advanced lathe theory and operations through assigned projects. Includes application of lathe settings, boring, single-point, threading, knurling, calculations, controls, taper attachments, follower rests, steady rests, and advanced tooling, safety, and work-holding applications. Prerequisite: CAM121A with a grade of C or better; or consent of instructor. W

CAM230 CAM Applications/Mills
2 class and 3 lab hr/wk, 3 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

CAM260 CAM Applications/Lathes
2 class and 3 lab hr/wk, 3 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

CAM280B-L Cooperative Work Experience
See CWE—Cooperative Work Experience

CAM290A CAD/CAM Integrations
2 class and 18 lab hr/wk, 8 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 drawings solids and parametric models to a Computer Aided Manufacturing (CAM) system for manufacturing purposes. Prerequisite: CAM110, CAM120, CAM121A, CAM130, CAM160, CAM230, and CAM260; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

CG Counseling and Guidance

CGG090 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
CG100 Preparing for College
1 class hr/wk, 1 cr.
Introduces students to techniques, strategies and information fundamental to success in the college environment. F, W, Sp

CG101 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

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, Sp

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, 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. Prerequisite: Placement into RD090 and WR090, or completion of each with a grade of C or better; or consent of instructor. F, W, Sp, Su

CG120 Focus on Careers
3 class hr/wk, 3 cr.
Focuses on the process for choosing an appropriate career direction by developing a personal profile, experiencing first-hand various career areas, and creating an effective educational/career plan. F, W, Sp

CG121A 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

CG121B Peer Mentoring
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 their peers. 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

CG123 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

CG124 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: 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

CG125 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: CG124 with a grade of C or better; and be a member of the incoming Associated Students of Chemeketa (ASC) Executive Board; or consent of instructor. W

CG126 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: CG125 with a grade of C or better; 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. Sp

CG127A Intercultural Leadership A
2 class hr/wk, 2 cr.
Assists students to understand and respect people of other cultures and be understood and respected by them. Prerequisite: Consent of instructor. F, W, Sp

CG128 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 team building, goal-setting, role modeling, public speaking, time management, ethics, diversity, and customer service. Inspires cultivation of a personal leadership vision. Prerequisite: Consent of instructor. W, Sp

CG129 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: Must be hired in a Student Retention and College Life Leadership position. F, W, Sp

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. Includes evaluation of individual personality type, interests, skills, values and work-related preferences. 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 exploring careers. Explores and assesses how interests, skills, values and personality type influence career choice. Includes career research resources as well as information on job and labor market trends. 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. Includes selection of various career components involving assessment, research, planning, and decision-making process and identification of educational or training objectives. Prerequisite: College-level reading and writing skills. F, W, Sp

CG140 Student Services Leadership
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

CG141 Student Services Leadership
2 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: CG140 with a grade of C or better; or consent of instructor. W

CG225 4-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 of the four-year college systems. W, Sp

CH 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; chemical reactions. First term of a three-term sequence dealing with the molecular basis for life. Prerequisite: Placement into MTH111 or higher; or MTH095 or higher with a grade of C or better; or consent of instructor. F, W, Sp

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: CH104 with a grade of C or better; or consent of instructor. 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: CH105 with a grade of C or better; or consent of instructor. F, Sp

CH110 Foundations of General, Organic, and Biochemistry
3 class, 2 lab and 1 recitation hr/wk, 5 cr.
Presents a one-term survey course of basic general, organic, and biochemistry designed to introduce the chemistry needed for understanding the functions of living organisms. Prerequisite: Placement into MTH111 or higher; or MTH095 or higher with a grade of C or better; or consent of instructor. F, W, Sp, Su

CH115 Consumer Chemistry
3 class and 3 lab hr/wk, 4 cr.
Introduces the first term of a three-term course sequence designed specifically for the non-science student. Offers a general education approach with major emphasis on what science is and on how chemistry is connected to other disciplines and to students’ lives, preparing them to make educated decisions on issues of science and technology. Covers science vs. technology, scientific method, atomic structure and theory, nuclear chemistry, chemical bonding, nomenclature, and chemical reactions. F

CH116 Consumer Chemistry
3 class and 3 lab hr/wk, 4 cr.
Offers the second term of a three-course sequence designed specifically for the non-science student. Covers: acids and bases, oxidation and reduction: chemistry of the earth, organic chemistry, polymers, air and its pollution. Prerequisite: CH115 with a grade of C or better; or consent of instructor. W

CH117 Consumer Chemistry
3 class and 3 lab hr/wk, 4 cr.
Provides a 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: CH112 with a grade of C or better; or consent of instructor. W, Sp

CH121 College Chemistry
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 MTH111 or higher; or MTH095 or higher with a grade of C or better; or consent of instructor. F

CH122 College Chemistry
3 class, 2 lab and 1 recitation hr/wk, 5 cr.
Provides a 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: CH121 with a grade of C or better; or consent of instructor. W, Sp

CH123 College Chemistry
3 class, 2 lab and 1 recitation hr/wk, 5 cr.
Continues 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: CH122 with a grade of C or better; or consent of instructor. F, Sp

CH172 Chemical Methods for Analysis of Musts and Wines
2 class and 2 lab hr/wk, 3 cr.
Introduces vineyard and winery laboratory practices. Covers basic chemical principles, laboratory techniques and analytical procedures for musts and wines. Prerequisite/Corequisite: CH123 with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. Offered as needed
CH201 Chemistry for Engineers
3 class and 3 lab hr/wk, 4 cr.
The first course in a two-term 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, bond-
ing models, solutions, redox, gas laws,
and chemical thermodynamics: heat, work
and energy. **Prerequisite:** Placement into
MTH111 or higher; or MTH095 or higher
with a grade of C or better; or consent of
instructor. F

CH202 Chemistry for Engineers
3 class and 3 lab hr/wk, 4 cr.
Provides the second course of a two-term
sequence. Covers Lewis structures, VESPR
theory, shapes and polarity of molecules,
intermolecular forces, crystal structure, reac-
tion rates, rate laws, reaction mechanisms,
acids and bases, chemical equilibrium, spon-
taneous changes, free energy, voltaic and
electrolytic cells, coordination compounds,
organic structure, and polymer chemistry.
**Prerequisite:** CH201 with a grade of C or
better; or consent of instructor. W

CH211 Chemistry for Engineers Prep 1
1 class hr/wk, 1 cr.
Provides guided study in topics and prob-
lem 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.
**Corequisite/Prerequisite:** CH201 with a
grade of C or better. **Prerequisite:** Place-
ment into MTH111 or higher; or MTH095
or higher with a grade of C or better; or
consent of instructor. F

CH212 Chemistry for Engineers Prep 2
1 class hr/wk, 1 cr.
Provides guided study in topics and prob-
lem solving skills beyond that provided in
CH202. Covers Lewis structures, VESPR the-
ory, shapes and polarity of molecules, inter-
molecular forces, crystal structure, reaction
rates, rate laws, reaction mechanisms, acids
and bases, chemical equilibrium, sponta-
neous changes, free energy, voltaic and
electrolytic cells, coordination compounds,
organic structure, and polymer chemistry.
**Prerequisite:** CH202 with a grade of C or
better; or consent of instructor. W

CH221 General Chemistry
3 class, 3 lab and 1 recitation hr/wk, 5 cr.
Introduces chemical concepts and experi-
mental techniques to students majoring in
scientific, engineering, and medical fields.
Covers the history of chemical develop-
ments, measurements and their uncertainty,
components of matter, chemical periodicity,
chemical calculations using the mole con-
cept, chemical reactions, kinetic-molecular
theory of gases, energy flow, experiments
on chemical systems, and atomic structure.
**Prerequisite:** Placement into MTH112 or
higher; or MTH111 or higher with a grade of
C or better; or consent of instructor. F

CH222 General Chemistry
3 class, 3 lab and 1 recitation hr/wk, 5 cr.
Covers periodic properties; molecular bond-
ing, 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:** CH221
with a grade of C or better; or consent of
instructor. W

CH223 General Chemistry
3 class, 3 lab and 1 recitation hr/wk, 5 cr.
Covers the rates and mechanisms of chemi-
cal reactions; fundamentals of chemical
equilibrium; acid-base equilibria; ionic
equilibria in aqueous systems; free energy
concepts; voltaic/electrolytic cells; and met-
allurgical processes. Third of a three-term
sequence designed for students majoring in
scientific, engineering and medical fields.
**Prerequisite:** CH222 with a grade of C or
better; or consent of instructor. Sp

CH241 Organic Chemistry
4 class hr/wk, 4 cr.
Introduces the principles of organic chem-
istry for students majoring in the physical
or life sciences. Emphasizes structure, nomen-
clature, chemical reactivities of organic molecules.
Stresses carboxylic acids and their derivatives,
amines, condensation reactions, carboxyls,
lipids, amino acids, proteins and nucleic ac-
ids. Students requiring lecture and lab credit
for transfer must take CH242 and CH242B.
**Prerequisite:** CH241 with a grade of C or
better; or consent of instructor. Offered as
needed

CH242 Organic Chemistry
4 class hr/wk, 4 cr.
Introduces the principles of organic chem-
istry for students majoring in the physical
or life sciences. Emphasizes structure, nomen-
clature, physical properties and chemical
reactivities of organic molecules.
Stresses alcohols, ethers, free-radical reac-
tions, aromatic compounds, spectroscopy,
oxidation-reduction, aldehydes and ketones.
**Prerequisite:** CH241 with a grade of C or
better; or consent of instructor. Offered as
needed

CH242B Organic Chemistry Lab
3 lab hr/wk, 1 cr.
Offers a laboratory course to accompany
CH242 Organic Chemistry for students
majoring in physical and life sciences. Em-
phasizes microscale laboratory experiments
related to reaction mechanisms, kinetics,
spectroscopy, gas chromatography and syn-
etic techniques. Students requiring lecture
and lab credit for transfer must take CH242
and CH242B. **Prerequisite:** CH241B with
a grade of C or better; or consent of instruc-
tor. Offered as needed

CH243 Organic Chemistry
4 class hr/wk, 4 cr.
Introduces the principles of organic chem-
istry for students majoring in the physical
or life sciences. Emphasizes structure, nomen-
clature, chemical reactivities of organic molecules.
Stresses carboxylic acids and their derivatives,
amines, condensation reactions, carboxyls,
lipids, amino acids, proteins and nucleic ac-
ids. Students requiring lecture and lab credit
for transfer must take CH242 and CH242B.
**Prerequisite:** CH241 with a grade of C or
better; or consent of instructor. Offered as
needed

CH243B Organic Chemistry Lab
3 lab hr/wk, 1 cr.
Offers a laboratory course to accompany
CH243 Organic Chemistry for students
majoring in physical and life sciences. Em-
phasizes 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:** CH242B with
a grade of C or better; or consent of instruc-
tor. Offered as needed

CIS

Computer Information Systems

CIS060 Techniques of User Training
2 class hr/wk, 2 cr.
Introduces teaching methods, materials and
instructional design as related to training
computer users. **Prerequisite:** Second-year
standing in the Computer Systems and
Information Technology program. Sp
CIS101 Introduction to Microcomputer Applications
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. Recommended: Touch keyboarding ability and placement into RD090 or higher, or consent of instructor. F, W, Sp, Su

CIS102A Cyber Security and Safety
4 class hr/wk, 4 cr.
Provides basic knowledge of the security, political, and 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

CIS120 Digital Literacy
4 class hr/wk, 4 cr.
Introduces terminology and overview of the historical development of computer and information science. Focuses on the basic concepts of computer hardware and software systems, the science of information representation, and the fundamental elements of program design and computer language. Includes concepts reinforced in a laboratory environment. Prerequisite: Placement into MTH095 and RD115 or higher; and MTH070 or higher with a grade of C or better; or consent of instructor. F, W, Sp

CIS120A Computer Information 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

CIS121 Introduction to 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/Corequisite: CIS120 with a grade of C or better; or consent of instructor. F, W

CIS125A Micro Database Software–Access
3 class hr/wk, 3 cr.
Focuses on microcomputer database software 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.
Presents electronic spreadsheets in a multi-worksheet environment using Excel. 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. W, Sp

CIS125H xHTML Basics
4 class hr/wk, 4 cr.
Introduces software and application development environments used on the Internet and typical enterprise intranets. Covers HTML fundamentals, development tools for HTML, and introduces object-oriented programming using JavaScript and XML. Prerequisite: CIS120 with a grade of C or better; or consent of instructor. Offered as needed

CIS133J Fundamentals of Java Programming
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; CIS101 or CIS120, either with a grade of C or better; or consent of instructor. 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 Fundamentals of 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; or consent of instructor. F, Offered as needed

CIS133VB Visual Basic-Event Driven 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 MS Excel
4 class hr/wk, 4 cr.
Introduces Microsoft Excel 2010 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 2010. Prerequisite: CIS125E with a grade of C or better; or consent of instructor. Offered as needed

CIS140B Microcomputer Operating Systems
3 class hr/wk, 3 cr.
Studies operating systems currently used on larger microcomputers and small microcomputers. Includes experience in using these operating systems to access files and communicate with other microcomputers. Prerequisite: CIS101 or CIS120, either with a grade of C or better; or consent of instructor. W, 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

CIS145 Microcomputer Hardware
3 class and 2 lab hr/wk, 4 cr.
Studies the hardware concepts necessary to install and maintain computers and computer peripherals. Explains the interface between software and hardware and incorporates the requirements for A+ certification. Prerequisite: CIS140B or NET123, either with a grade of C or better; or consent of instructor. W

CIS178W Fundamentals of Web Design
4 class hr/wk, 4 cr.
Covers fundamentals of web design using Adobe Systems software. Focuses on the overall production processes surrounding web site design. Emphasizes design elements involving layout, navigation, and interactivity. Includes hands-on web design exercises using Adobe Dreamweaver, Adobe Fireworks, and Adobe Flash. Prerequisite: CIS101 or CIS120, either with a grade of C or better; or consent of instructor. F, W

CIS179 Introduction to 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 Technical Specialist (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.
Provides 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.) Offered as needed

CIS195 Web Site Development
4 class hr/wk, 4 cr.
Covers web site planning, organization, and implementation. Explores web development applications. Discusses XHTML, XML, 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 Fundamentals of Java Programming 1
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 Fundamentals of Java Programming 2
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 manipulating data from the same databases using the Java database connectivity (JDBC) application program 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

CIS276A Introduction to Oracle: SQL
4 class hr/wk, 4 cr.
Offers an extensive introduction to data server technology. Examines the concepts of both relational and object relational databases and the Structured Query Language (SQL) programming language. Covers creating and maintaining database objects and storing, retrieving, and manipulating data. Also covers retrieving data by using advanced techniques such as ROLLUP, CUBE, set operators, and hierarchical retrieval. Includes writing SQL and SQL*Plus script files using the iSQL*Plus tool to generate report-like output. Prerequisite/Corequisite: CS275 with a grade of C or better; or consent of instructor. F
CIS276B Oracle: Programming with PL/SQL
4 class hr/wk, 4 cr.
Introduces Procedural Language/Structured Query Language (PL/SQL) and the benefits of this Oracle programming language. Covers creating PL/SQL blocks of application code that can be shared by multiple forms, reports, and data management applications. Also covers creating procedures, functions, packages, and database triggers. Uses iSQL*Plus to develop program units. Includes managing PL/SQL program units and database triggers, managing dependencies, manipulating large objects, and using some of the Oracle-supplied packages. Prerequisite: CIS121 or equivalent as determined by instructor; and CIS276A; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

CIS276C Oracle: Building Reports
4 class hr/wk, 4 cr.
Focuses on database and instance tuning of the Oracle database. Uses the available Oracle tools such as Oracle Enterprise Management (with the Diagnostics and Tuning Packs) and STATSPACK. Covers how to recognize, troubleshoot, and resolve common performance-related problems in administering an Oracle database. Prerequisite: CIS276A with a grade of C or better; or consent of instructor. Offered as needed

CIS276D Oracle Academy 1-SQL
4 class hr/wk, 4 cr.
Focuses on Database Design and Programming with SQL. It covers the history of databases. Includes analyzing complex business scenarios and creating entity relation data models and conceptual data models’ representations of those scenarios. Discusses unique identifiers and transitive dependencies, and normalizing tables. Introduces Structured Query Language (SQL). Also covers the rules and guidelines needed to construct valid SQL statements. Introduces Oracle Application Express, Oracle Data Modeler, and Oracle SQL Developer software programs. F

CIS276E Oracle Academy 2-PL/SQL
4 class hr/wk, 4 cr.
Covers Database Programming with PL/SQL (Procedural Language/Structured Query Language). Introduces the PL/SQL block structure and coding anonymous blocks in Oracle Application Express. Explains the difference between SQL and the PL/SQL block structure. Introduces writing PL/SQL control structures, data types, cursors, functions, procedures, and exception handling. Prerequisite: CIS276D with a grade of C or better; or consent of instructor. W, Offered as needed

CIS277A Database Administration Fundamentals 1
4 class hr/wk, 4 cr.
Focuses on database and instance tuning of the Oracle database. Uses the available Oracle tools such as Oracle Enterprise Management (with the Diagnostics and Tuning Packs) and STATSPACK. Covers how to recognize, troubleshoot, and resolve common performance-related problems in administering an Oracle database. Prerequisite: CIS276A with a grade of C or better; or consent of instructor. Offered as needed

CIS277B Database Administration Fundamentals 2
4 class hr/wk, 4 cr.
Covers transporting data between databases and the utilities used to perform these activities. Introduces networking concepts and configuration parameters, as well as solving some common network problems. Also addresses backup and recovery techniques, and examines various backup, failure, restore and recovery scenarios. Examines backup methodologies based on business requirements in a mission critical enterprise. Covers multiple strategies and Oracle Recovery Manager to perform backups, and restore and recovery operations. Prerequisite: CIS277A with a grade of C or better; or consent of instructor. Offered as needed

CIS278 Data Communications
4 class hr/wk, 4 cr.
Covers fundamental concepts in data communication including definition of terms, communicating concepts, comparison of voice and data communication (analog versus digital signals), medium access, elementary data link protocols, topologies, servers, and operating system standards implemented in local area networks (LAN). Uses hands-on software activity related to protocols, switching, routing, and peer-to-peer networking using a VM environment. Prerequisite: CIS120 and CIS122, both with a grade of C or better; or consent of instructor. W

CIS279 Network Management
4 class hr/wk, 4 cr.
Focuses on the logical design, construction, operation, maintenance, and management of a network using Directory Services, including installation of network server(s); configuring and managing DHCP, DNS, and RRAS; file and print services; system updates; and network security using secure IPSEC protocols. Prerequisite: CIS145, CIS179 with a grade of C or better; or consent of instructor. W

CIS280B-L Cooperative Work Experience
See CWE—Cooperative Work Experience

CIS288 Advanced Client-Server Networks
4 class hr/wk, 4 cr.
Provides hands-on experience installing, configuring, customizing, administering, and maintaining a server and outlines its various roles in an enterprise environment. Includes installation and administration of DHCP, DNS, remote access, virtualization, domain management, and group policy design. Prepares students to obtain both the Microsoft Certified Technical Specialist (MCTS) and Microsoft Certified Information Technology Professional (MCITP) Certifications. Prerequisite: CIS179 and CIS279, both with a grade of C or better; or consent of instructor. W

CIS289 Advanced Network Application Support
4 class hr/wk, 4 cr.
Provides experience supporting and troubleshooting software and hardware on a virtualized local area network. Covers the various server roles of email server services, remote access, and domain security. Prepares students to obtain the Microsoft Certified Information Technology Professional (MCITP) Certification. Prerequisite: CIS288 and CIS279, both with a grade of C or better; or consent of instructor. W

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. Prerequisite: CIS178I, CIS195, or VC237; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

CJ 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 perspectives, 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

CJ103 Program Application and Employment Standards  
1 class hr/wk, 1 cr.  
Introduces information specific to Oregon employment requirements and DPSTT (Department of Public Safety Standards and Training) certification standards. Includes employment disqualifiers as well as desired attributes to assist in selecting the criminal justice career field best suited to specific qualifications. Prerequisite: Completion of the Criminal Justice Program Application packet for criminal history screening purposes. F, W, Sp, Su

CJ110 Introduction to Law Enforcement  
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. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W, Sp

CJ112 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. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Sp

CJ123 Spanish for Law Enforcement Personnel  
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. Recommended: CJ110 or CJ112 unless student already has prior practical experience as a cadet, reserve, or certified law enforcement officer. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Sp

CJ130 Introduction to 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. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F

CJ132 Introduction to Parole and Probation  
3 class hr/wk, 3 cr.  
Introduces the corrections process, including historical development through contemporary issues. Identifies variations in correctional institutions, levels of custody, administration practices, correctional staffs roles and responsibilities, institutional policies, procedures, and programs. Covers changing inmate demographics, special needs inmates, safety/security concerns, and current issues. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W, Sp

CJ134 Contraband and Search  
1 class hr/wk, 1 cr.  
Focuses on the proper forms and processes for conducting searches of persons such as staff, volunteers, contractors, and visitors; places such as living, common access, and work areas; and vehicles. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W

CJ136 Transportation, Escorting, and Restraints  
1 class hr/wk, 1 cr.  
Covers practical techniques for the transportation, restraint, and escorting of inmates within a facility or in the general public. Reviews management concepts for the classification and risk criteria factors for inmates that determine custody level. Includes the importance of the safety, security, and orderly operation of facilities, and the safety and welfare of staff and the general public. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W

CJ138 Security Threat Groups  
1 class hr/wk, 1 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. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W

CJ142A Managing the Mentally Ill Offender  
1 class hr/wk, 1 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, and mental retardation. Recommended: PSY201, PSY202, or PSY203. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W

CJ144 Suicide Prevention and Intervention Skills  
2 class hr/wk, 2 cr.  
Presents a suicide prevention and intervention practice-dominated course designed to help individuals, criminal justice, juvenile and social service caregivers recognize and review risk, and to intervene to prevent the immediate risk of suicide. F, Sp

CJ145 Managing Long Term Offenders  
1 class hr/wk, 1 cr.  
Addresses management strategies for long-term offenders. Covers inmate perception 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: 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. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W, Sp

CJ147 Criminal Personality and Errors in Thinking  
1 class hr/wk, 1 cr.  
Introduces personality disorders as defined by the Diagnostic and Statistical Manual (DSM). Addresses errors in thinking which are uniquely present in criminal behavior. Reviews the foundational work of Yochelson and Samenow on the criminal mind. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F

CJ153 Ethical Dilemmas and Decision Making in Criminal Justice  
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 learners application of ethical reasoning in the face of agency corruption, use of force, gender and race discrimination, due process and duty towards others. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F

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. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W, Sp, Su

CJ171 Juvenile Sex Offenders  
1 class hr/wk, 1 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 paraphilia behaviors as they relate to juvenile sex offenders as described in DSMIV. W

CJ175 Juvenile Law  
3 class hr/wk, 3 cr.  
Provides a historical overview of the legal rights of juveniles, including landmark Supreme Court cases which applied constitutional protections to juveniles. Covers the requirements and responsibilities of professionals in the juvenile justice system. Introduces the Oregon Juvenile Code and statutory guidelines for operating the Oregon Youth Authority. Prerequisite: 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. Prerequisite: 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.  
Includes personal effectiveness, recognition of threat levels, voluntary compliance, verbal and non-verbal communication, active listening and mediation. An overview of the techniques and approaches to crisis intervention for entry-level criminal justice professionals. Presents strategies for initial intervention, defusion and assessment, resolution and/or referral, with emphasis on safety. Prerequisite: 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, socioeconomic 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. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W, Sp

CJ207 Diversity Issues in Criminal Justice  
3 class hr/wk, 3 cr.  
Introduces the civil rights of citizens related to religion, ethnicity, culture, race, gender, age, disability and sexual preference. Explores 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. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. Sp

CJ209 Introduction to Victimology  
3 class hr/wk, 3 cr.  
Traces the criminal justice system’s historic and current response to crime victims. Provides a comprehensive overview of the offender-victim relationship, while addressing victim support policies and programs. Presents a realistic approach to understanding the process of victimization and the broad range of coping mechanisms that victims employ to deal with their particular experiences. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F

CJ210 Introduction to Criminal Investigations  
1 class hr/wk, 3 cr.  
Covers historical development of criminology. 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. Prerequisite: CJ103 with a grade of C or better; or current professional in the field; or consent of instructor. F, W, Sp
CJ111 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. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Sp

CJ122 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. Prerequisite: CJ103 with criminal history clearance; and CJ110 or CJ112, either with a grade of C or better; or current professional in the field; or consent of instructor. F, W, Sp

CJ125 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. Prerequisite: CJ103 completion with a criminal history clearance; and CJ110 or CJ112, either with a grade of C or better; or current professional in the field; or consent of instructor. F, W, Sp

CJ127 Interview and Interrogation in Criminal Justice
3 class hr/wk, 3 cr.
Focuses on becoming a knowledgeable interviewer and interrogator. Introduces REID Interview 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. Prerequisite: 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.
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. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. 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. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W, Sp

CJ224 Missing and Abducted Children
1 class hr/wk, 1 cr.
Provides specialized training regarding child abductions and missing children. Includes victimology, motives, custodial versus non-custodial, kidnap murder, cult murder, grooming techniques, crime scene indicators, and forensic evidence. Introduces notification and tracking systems, including National Center for Missing and Exploited Children (NCMEC), Amber Alert Plan, FBI's Child Abduction and Serial Murder Investigative Resource Center (CASMiRC), Violent Criminal Apprehension Program (VICAP), K-9 usage, and A Child is Missing (ACIM) Plan. Emphasizes the first four hours investigative tasks. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W, Sp, Su

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, e-mail, cell phones, fax machines, and pagers. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W

CJ226 Introduction to Constitutional Law
3 class hr/wk, 3 cr.
Analyzes the United States Constitution and court decisions which determine the admissibility of evidence in criminal cases and which affect the role of law enforcement in police procedures. An intensive study which includes criminal procedures processes. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W, Sp, Su

CJ227 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 threats, 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, both with a grade of C or better; and CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Sp

CJ230 Introduction to 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 re habilitation vs. punishment philosophies in the juvenile justice system, especially as it relates to safety/security issues and public concerns. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. W, Sp
CJ232 Introduction to Corrections Casework  
3 class hr/wk, 3 cr.  
Prerequisites: Prerequisite: Offered as needed

CJ233 Our Juvenile Justice System  
3 class hr/wk, 3 cr.  
Prerequisites: Prerequisite: Offered as needed

CJ234 Juvenile Justice Management  
3 class hr/wk, 3 cr.  
Prerequisites: Prerequisite: Offered as needed

CJ235 Youth, Drugs, and Corrections  
3 class hr/wk, 3 cr.  
Prerequisites: Prerequisite: Offered as needed

CJ236 Public Safety Leadership and Ethics 1: Philosophy of Leadership  
4 class hr/wk, 4 cr.  
Prerequisites: Prerequisite: Offered as needed

CJ237 Public Safety Leadership and Ethics 2: Leading Others  
4 class hr/wk, 4 cr.  
Prerequisites: Prerequisite: Offered as needed

CJ238 Public Safety Leadership and Ethics 3: Organizational Leadership  
4 class hr/wk, 4 cr.  
Prerequisites: Prerequisite: 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. Offered as needed

CJ240 Intake, Assessment, and 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; applying techniques for informational interviewing. Includes the benefits, costs, and process of changing behavior. Explores the techniques for assessing consistency, accountability, and effectiveness for intake operations. Prerequisite: CJ100 or CJ102, either with a grade of C or better; or consent of instructor. F, W

CJ241 Group Skills for Correctional- Clients  
3 class hr/wk, 3 cr.  
Introduces group dynamics, group organization and facilitation skills for correctional professionals working with clients. Includes an introduction to the various models of group interaction, 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. Prerequisite: CJ100 or CJ102, either with a grade of C or better; or consent of instructor. F, W, Sp

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. Prerequisite: CJ103 with criminal history clearance; or current professional in the field; or consent of instructor. F, W

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 (DPST) content areas. Involves overview of ORS criminal, juvenile, vehicle code, liquor laws and civil liability; ethics; cultural diversity; ORPAT (Oregon Physical Abilities Test) preparation and testing; CPR/ AED practical training; and HazMat/Blood borne pathogens. Prerequisite: Admission restricted to the students chosen through an application process and who have successfully completed CJ103, including criminal history clearance specific to DPST (Department of Public Safety, Standards and Training) employment standards. F

CJ262 Law Enforcement Related Experience 2  
9 lab hr/wk, 3 cr.  
Introduces basic information and practical application of courtroom testimony, Standard Field Sobriety Tests (SFST) applications, Drug Recognition Expert (DRE) abilities, intoxilizer technology, and Wet labs. Includes tours of DPST (Department of Public Safety Standards and Training) academy and Marion County Correctional Facility complex. Prerequisite: CJ261 with a grade of C or better; or consent of instructor. W
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 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. **Sp**

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 (EVOCC) 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. **F**

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, cyber crime, narcotic investigations and informants, Emotionally Disturbed Persons. EDP encounters, homicides, scene preservation, and M.E.s (Medical Examiner) role, and sexual asphyxias deaths. Provides students on ORPAT probation a final attempt to successfully complete course within required DPSST 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. **W**

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 consis; 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 L.E.R.E. series of courses will participate in the 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. **Sp**

CJ267 Introduction to Forensics 3 class hr/wk, 3 cr.
Presents a survey of basic crime scene-related forensic science and standard evidence collection. Covers physical evidence, glass and soil, hairs, fibers, paint, arson and explosives, serology, blood patterns, DNA, bite marks, fingerprints, 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. **Prerequisite:** Admission restricted to students chosen through an application process; and who have completed CJ103 with a grade of C or better; and a criminal history clearance specific to Department of Public Safety Standards and Training (DPSST) employment standards. **W**

CJ268 Law Enforcement Photography 1 class hr/wk, 1 cr.
Introduces photography specific to the needs of law enforcement personnel for preliminary and follow-up investigations; i.e. crime scenes, injuries, wounds, autopsy, court preparation, and other investigative needs, including intelligence gathering, and surveillance. Includes information on extended use of digital features, computer enhancement, and videotaping. **Recommended:** CJ210. **Prerequisite:** Admission restricted to the students chosen through an application process; and completed CJ103 with a grade of C or better; and criminal history clearance specific to Department of Public Safety Standards and Training (DPSST) employment standards. **Sp**

CJ269 Police Ethics and Professional Conduct 3 class hr/wk, 3 cr.
Provides indepth 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 (CRIs), 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 L.E.R.E. 1-6 coverage that requires ethical responses and actions for successful task completion. **Recommended:** CJ110 or CJ112. **Prerequisite:** Admission restricted to the students chosen through an application process; and who have completed CJ103 with a grade of C or better; and a criminal history clearance specific to Department of Public Safety Standards and Training (DPSST) employment standards. **W**

CJ270 Crime Victim Advocacy 1 class hr/wk, 1 cr.
Provides information on the development of local victim advocacy/assistance programs; community resources available to victims, including Crime Victim Compensation; the role of the advocate; advocate training in Basic Advocacy, Children and Juvenile Training, Domestic Violence Training, Sexual Assault Response Program Training, and Homicide (HART) Training. Includes types of services delivered to victims, and commonly used websites that provide current information on services delivered to victims. **Recommended:** CJ200. **Prerequisite:** Admission restricted to the students chosen through an application process; and completed CJ103 with a grade of C or better; and criminal history clearance specific to Department of Public Safety Standards and Training (DPSST) employment standards. **W**
CJ271 Introduction to K-9s
1 class hr/wk, 1 cr.
Provides an introductory orientation to law enforcement K-9s. Covers the history and development of K-9s, common breeds, costs, K-9 anatomy, relationship between dog and handler, location on the force continuum, training and certification, K-9 related policies, specialized equipment, deployment scenarios, injuries, veterinary services, length of career, and retirement. Includes K-9 demonstration. Recommended: CJ110 or CJ112. Prerequisite: Admission restricted to students chosen through an application process; and completed CJ103 with a grade of C or better; and criminal history clearance specific to Department of Public Safety Standards and Training (DPSST) employment standards. Sp

CJ272 Recognizing Child Molesters
2 class hr/wk, 2 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. Prerequisite: CJ103 with a grade of C or better; and a criminal history clearance specific to Department of Public Safety Standards and Training (DPSST) employment standards. W

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 Ncsnorthwest. 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, related criminal activities, infiltration, involvement of 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: CJ138. Prerequisite: Admission restricted to students chosen through an application process; and who have completed CJ103 with a grade of C or better; and a criminal history clearance specific to Department of Public Safety Standards and Training (DPSST) employment standards. Sp

CJ280B-L Cooperative Work Experience
See CWE–Cooperative Work Experience

CLA

Chicano/Latino Studies

CLA201 Introduction Chicano/Latino Studies 1: Historical Overview
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. F, Su

CLA202 Introduction to Chicano/ Latino Studies 2: Political and Economic Overview
4 class hr/wk, 4 cr.
Introduces the social, educational, 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. W

CLA203 Introduction to Chicano/ Latino Studies 3: Cultural Overview
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. Sp

COMM

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. F, W, Sp

COMM111 Fundamentals of Public Speaking
4 class hr/wk, 4 cr.
Introduces how to prepare and deliver 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 physical and vocal delivery skills. Recommended: Placement into WR121; or WR115 with a grade of C or better. F, W, Sp, Su

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. 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 WR115 with a grade of C or better. F, W, Sp, Su

COMM219 Team Communication and Leadership
4 class hr/wk, 4 cr.
Emphasizes communications skills that participate in team settings. Covers the characteristics of small groups, leadership and conflict management skills. F, W, Sp, 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 sex-differentiated language and conversational styles, the impact of the mass media on sex roles, how intimacy is expressed in same and opposite-sex friendships, and the question of what constitutes ethical communication when it comes to gender talk. 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: e-mail, 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; or consent of instructor.

CS Computer Science

CS133U 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

CS160 Introduction to Computer Science
4 class hr/wk, 4 cr.
Explores the disciplines and professions of Computer Science and Software Engineering. Surveys computer hardware and software architecture, the study of algorithms, software design and development, data representation and organization, problem-solving strategies, ethics in the digital world, and the history of computing and its influences on society. Explores career options and begins the process of planning a program of study. Exposes students to both low-level and high-level programming languages. Prerequisite: Placement into MTH112; or MTH111 with a grade of C or better; or concurrent enrollment; or consent of instructor. F, Sp

CS161 Computer Science 1
4 class hr/wk, 4 cr.
The 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: MTH111; and 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

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: CS161 with a grade of C or better; or consent of instructor. W, Sp

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: CS162 and MTH231, both with a grade of C or better; or consent of instructor. Sp

CS271 Principles of Computer Organization
4 class hr/wk, 4 cr.
Introduces the conceptual organization of digital computers. Covers the digital systems' history, number systems, data encoding, digital logic fundamentals, processor design, instruction execution and addressing. Presents an introduction to assembly language programming and the assembly process, RISC machines, and parallel architectures. Prerequisite: CS161 with a grade of C or better; or consent of instructor. W

CS275 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. Discusses SQL. Prerequisite: CIS101 or CIS120, either with a grade of C or better; or consent of the instructor.

Cultural Studies
See CLA–Chicano/Latino Studies, SSC–Social Science

CVL 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.

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.

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 workskills. Prerequisite: CVL 143 with a grade of C or better; and concurrent enrollment in MTH082 or higher; or consent of instructor.
CVL161A Plane Surveying 1–Lecture  
2 class hr/wk, 2 cr.  
Covers plane survey theory and practice. Includes measurement techniques associated with taping, leveling, and field measurements with advanced electronic survey equipment. Emphasizes professional-technical development and teamwork skills. Introduces a basic understanding of metes and bounds descriptions. Prerequisite: CVL143 with a grade of C or better; and concurrent enrollment in MTH082 or higher, and CVL161B; or consent of instructor. Offered as needed

CVL161B Plane Surveying 1–Lab  
6 lab hr/wk, 2 cr.  
Covers field practices and application of equipment utilized in professional land surveying. Emphasizes tactile learning with strong team orientation. Prerequisite: CVL143 with a grade of C or better; and concurrent enrollment in CVL161A; or consent of instructor. Offered as needed

CVL162A Plane Surveying 2–Lecture  
2 class hr/wk, 2 cr.  
Continues Plane Surveying 1. Studies distance and direction measurement, employing total stations with external data collectors, traversing and associated office computations, areas and volumes, circular curves, vertical curves and outlines of public land surveys. Prerequisite: CVL144 with a grade of C or better; and concurrent enrollment in CVL162B; or consent of instructor. Sp

CVL162B Plane Surveying 2–Lab  
6 lab hr/wk, 2 cr.  
Incorporates field survey with a focus on data gathering for computerized mapping. Introduces American Land Title Association specification standards and the use of GPS equipment. Prerequisite: DRF131 and CVL144, both with a grade of C or better; and concurrent enrollment in CVL162A; or consent of instructor. Sp

CVL211 Fluid Mechanics  
4 class hr/wk, 4 cr.  
Focuses on fluid properties, fluid statics, fluid motion, conservation of mass, momentum, and energy for incompressible fluids, dimensional analysis, for civil engineering applications. Prerequisite: MTH112 or MTH082, either with a grade of C or better; or consent of instructor. Offered as needed

CVL230 Applied Statics  
3 class hr/wk, 3 cr.  
Analyzes the forces induced in structures and machines by various types of loading. Prerequisite: MTH082 or MTH112; and PH081; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

CVL231 Applied Strength of Materials  
4 class hr/wk, 4 cr.  
Analyzes internal stresses, deflections and deformations of structural members when subjected to external forces. Covers how to design structures based on structural analysis. Prerequisite: CVL230 with a grade of C or better; or consent of instructor. Offered as needed

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

CVL240A Construction Surveying–Lecture  
2 class hr/wk, 2 cr.  
Covers office-based calculations for construction surveying of a typical residential street, including curbs, storm and waste water sewers, and building site layouts. Applies state plan coordinate system to construction surveying and building site layouts. Introduces Global Positioning Systems (GPS) software and writing legal descriptions for utility easements and street right-of-way. Prerequisite: CVL162A and CVL162B, both with a grade of C or better; and concurrent enrollment in CVL240B; or consent of instructor. Offered as needed

CVL240B Construction Surveying–Lab  
6 lab hr/wk, 2 cr.  
Covers construction surveying for a typical residential street, including curbs, storm and waste water sewers, and building site layouts. Introduces Global Positioning Systems (GPS) field measurement practices and equipment care and use requirements. Prerequisite: CVL162A and CVL162B, both with a grade of C or better; and concurrent enrollment in CVL240A; or consent of instructor. Offered as needed

CVL241 Boundary Survey Law  
3 class and 3 lab hr/wk, 4 cr.  
Explores statute law, common law, and legal principles relating to land boundaries. Prerequisite: CVL162 with a grade of C or better; and concurrent enrollment in WR121; or consent of instructor. Offered as needed

CVL242 Boundary Descriptions  
3 class and 3 lab hr/wk, 4 cr.  
Covers real property descriptions and land record systems. Emphasizes interpreting and writing land descriptions, research in land records, and multipurpose cadastral systems. Prerequisite: CVL161, CVL241, and WR121; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

CVL260 Survey Project Planning  
1 class and 6 lab hr/wk, 3 cr.  
Covers advanced research of deed and survey data. Emphasizes preparation of a map of record. Emphasizes preparation of equipment and labor requirement plans needed for field survey project planning. Prerequisite: CVL163A, CVL162B and DRF245; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

CVL261 Environmental and Sanitary Technology  
2 class and 6 lab hr/wk, 4 cr.  
Introduces elementary concepts of hydraulics, hydrology, storm collection and detention, sanitary sewer and domestic water supply designs. Applies concepts to typical design documentation. Prerequisite: DRF245 and MTH082, both with a grade of C or better; or consent of instructor. Offered as needed

CVL263A Topographic Surveying–Lecture  
2 class hr/wk, 2 cr.  
Covers importing survey point files of topographic points previously surveyed using electronic survey equipment into AutoCAD engineering/surveying software, to produce a base map (topographic map) depicting the area surveyed. Prerequisite: CVL162A, CVL162B, and DRF245; and concurrent enrollment in CVL263B; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed

CVL263B Topographic Surveying–Lab  
6 lab hr/wk, 2 cr.  
Reviews field practices and survey techniques to field survey data collection. Covers advanced responsibilities of a team leader in a field crew situation with additional equipment care and use requirements. Includes topographic surveying using electronic surveying equipment, including setting up horizontal and vertical control networks. Prerequisite: CVL162A, CVL162B, and DRF245; and concurrent enrollment in CVL263A; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed
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; or consent of instructor. 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 assisting field. Prerequisite: Enrollment in the Dental Assisting program; or consent of instructor. 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; or consent of instructor. 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; or consent of instructor. F

DEN160 Dental Specialties  
2 class hr/wk, 2 cr.  
Studies the various fields of specialized dentistry recognized by the American Dental Association. Introduces applied psychology through role playing as related to the clinical application in the specialties. Prerequisite: Second-term 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: Second-term standing in the Dental Assisting program. W

DEN162 Intermediate Clinical Skills  
1 class and 3 lab hr/wk, 2 cr.  
Introduces the clinical skills necessary to function as a dental assistant in the dental office setting. Develops communication skills and procedures necessary for chairside assisting. Emphasizes the use of appliances and equipment to the student will be supplemented by instructional demonstrations of additional laboratory techniques and materials. Prerequisite: Second-term standing in the Dental Assisting program. W

DEN163 Dental Materials 2  
2 class and 3 lab hr/wk, 3 cr.  
Introduces the principles of laboratory procedures related to fixed and removable prosthetics. Utilization of appropriate laboratory equipment by the student will be evaluated. 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 or consent of the instructor. F

DEN170 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; perform 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.
Prerequisite: DEN164. Allows students to take additional adult and pediatric (pedodontic) manikin films using low-dose technique. Students develop skills in managing patients and perfect radiographic techniques by completing one full mouth patient x-ray series. Includes information on taking pediatric films, films in edentulous areas, films taken while the patient is in a supine position, endodontic films, occlusal films, extra-oral films, and digital radiography. Students learn how to use the panoramic x-ray unit, film duplicators, and automatic film processors; process and evaluate all x-ray unit, film duplicators, and automatic film processors; process and evaluate all exposed films, and are eligible to take the State x-ray examination upon successful completion of DEN164 and DEN174. 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 low-dose technique. Students develop skills in managing patients and perfect radiographic techniques by completing one full mouth patient x-ray series. Includes information in taking pediatric films, films in edentulous areas, films taken while the patient is in a supine position, endodontic films, occlusal films, extra-oral films, and digital radiography. Students learn how to use the panoramic x-ray unit, film duplicators, and automatic film processors; process and evaluate all exposed films, and are eligible to take the State x-ray examination upon successful completion of DEN164 and DEN174. Prerequisite: Third-term standing in the Dental Assisting program. Sp

DRF Drafting Technology
See also CAM—Computer-Aided Manufacturing

DRF051 Technical Graphics
1 class and 6 lab hr/wk, 3 cr.
Covers fundamentals of graphics communication. Includes multiview and pictorial representation, dimensioning and section and auxiliary views. Prerequisite: DRF130 with a grade of C or better; or consent of instructor. Offered as needed.

DRF054 Drafting 1
1 class and 3 lab hr/wk, 2 cr.
Introduces fundamentals of drafting and basic drafting techniques. Emphasizes use of drafting instruments, standard orthographic projections, layout procedures, ASA-approved lettering techniques, geometric construction, selection of views, sectional auxiliary views, and standard dimensioning practices, including metrics. Offered as needed

DRF059A,B,C Special Projects in Drafting and Design
3-9 lab hrs/wk, 1-3 cr.
Allows student and instructor to identify a drafting project or problem and jointly draw up a contract. The contract sets forth a proposal to complete the project or solve the problem. Identifies objectives, procedures and equipment needed, together with key checkpoints for student-instructor conferences. This course is intended for, but not limited to, second-year drafting students as an elective. Potential areas of consideration include community development projects, CAD programming and applications, machine design, mapping, civil engineering drafting, or any drafting-related field. Provides consideration and encouragement to an interdisciplinary team of students working on a common problem. Prerequisite: 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, design and related areas. Prerequisite: MTH070 with a grade of C or better; or consent of instructor. F, 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

DRF114 Drafting Orientation
1 class and 3 lab hr/wk, 2 cr.
Introduces drafting as a career option. Offers field trips to offices and job sites, guest lecturers, Internet and periodical research on cutting-edge technology. 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 CAD. Covers advanced graphics commands for two-dimensional drawings. Introduces elementary customization techniques. Covers three-dimensional models created from surfaces and solids. Most students will use AutoCAD, but other general-purpose CAD software can also be used. Prerequisite: DRF131 with a grade of C or better; or consent of instructor. Sp

DRF140 3D Modeling with Inventor
2 class and 3 lab hr/wk, 3 cr.
Uses Autodesk Inventor as an introduction to 3D modeling. Covers fundamentals of graphics communication. Includes multi-view drawings, dimensioning, section views, auxiliary views and descriptive geometry concepts. Prerequisite: DRF131 with a grade of C or better; or consent of instructor. Sp

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 Platting
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 (GIS) and Global Positioning Systems (GPS). 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, design structural members, 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 menu systems for specific applications. Prerequisite: DRF132 with a grade of C or better; or consent of instructor. Sp

DRF170 AutoCAD Certification Preparation
1 class and 2 lab hr/wk, 2 cr.
Prepares students with proper AutoCAD knowledge and skills. Prerequisites: DRF131 and DRF220, both 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 sketching and 3D modeling software. Prerequisite: DRF131 with a grade of C or better; or consent of instructor. F, W

DRF220 GIS 1
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

DRF221 GIS 2
1 class and 6 lab hr/wk, 3 cr.
Uses GIS and CAD software in GIS applications and projects. Studies advanced GIS concepts and covers basic CAD mapping commands and operations. Prerequisite: DRF131 and DRF220, both with a grade of C or better; or consent of instructor. Sp

DRF230 Introduction to MicroStation PC
2 class and 3 lab hr/wk, 3 cr.
Introduces MicroStation PC drafting software. Covers basic drawing, editing and display commands. Prerequisite: AutoCAD. Prerequisite: DRF230 with a grade of C or better; or consent of instructor. 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.
Introduces light commercial construction practices. Covers production of working drawings using AutoCAD software. Also covers drafting practices applied with the building materials and metal and concrete. Prerequisite: DRF131 with a grade of C or better; or consent of instructor. W, Sp

DRF242 3-D Presentations
1 class and 6 lab hr/wk, 3 cr.
Covers production of objects and scenes as 3-D computer images, incorporating various materials and lights. Prerequisite: DRF132 with a grade of C or better; or consent of instructor. Offered as needed

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.
Covers advanced elements of Civil 3D software. Develops residential subdivision and typical utility design documentation. Prerequisite: DRF132 and DRF155, both 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

DRF251 Power Transmission Design
3 class hr/wk, 3 cr.
Focuses on the design of power transmission systems. Incorporates hydraulics, pneumatics, electric motors, chains, belts, bearings and speed reducers. Covers analysis of system requirements, sizing of machine elements, and selection of components from industrial catalogs. Prerequisite: MTH082 with a grade of C or better; or consent of instructor. Offered as needed

DRF255 Technical Illustration
1 class and 6 lab hr/wk, 3 cr.
Presents pictorial presentation methods for 3D models using a variety of software. Focuses on creating exploded view drawings, blended raster and vector images, and computer renderings. Covers plotting to web and paper format. Prerequisite: DRF132 with a grade of C or better; or consent of instructor. Offered as needed

DRF256 AutoLISP Programming
2 class and 3 lab hr/wk, 3 cr.
Introduces AutoLISP functions. Focuses on development of programs to increase AutoCAD productivity. Prerequisite: DRF131 with a grade of C or better; or consent of instructor. Offered as needed

DRF260 Tool Design
1 class and 6 lab hr/wk, 3 cr.
Introduces the principles of tool design, focusing on gauging, locating, clamping, and figure design. Incorporates high production techniques and tooling. Prerequisite: DRF210 with a grade of C or better; or consent of instructor. Sp

DRF262 Machine Design
1 class and 6 lab hr/wk, 3 cr.
Introduces common machine design practices. Covers production of objects and scenes as 3-D computer images, incorporating various materials and lights. Prerequisite: DRF132 with a grade of C or better; or consent of instructor. Sp

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. F

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: DRF131 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

EC 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 MTH095 higher or MTH070 higher with grade of C or better; or consent of instructor. F, W, Sp

EC201 Introduction to Microeconomics
4 class hr/wk, 4 cr.
Introduces microeconomic theories of how a capitalist society operates. Covers the concepts of surplus product, commodity production, price elasticity, revenue, production and cost, profit, competitive and imperfectly competitive markets, market power, antitrust, externalities, (de)regulation of business, income distribution, poverty, and labor (factor) markets. Prerequisite: MTH095 or higher and EC202, both with a grade of C or better; or consent of instructor. 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 aggregate supply and demand, fiscal and monetary policies, international trade, money and banking, the Federal Reserve, business cycles, poverty, unemployment and inflation. Prerequisite: MTH095 or higher; with a grade of C or better; or consent of instructor. 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. Offered as needed

ECE Early Childhood Education
See also ED–Education, HDF–Human Development and Family Studies

ECE068A,B,C Observing Preschool Experiences
1 class hr/wk, 1 cr. each
Observes various aspects of a preschool. In ECE068A, students observe children's development; ECE068B focuses on observing guidance; ECE068C emphasizes the classroom environment and curriculum. Each course may be repeated for a maximum of two credits. Prerequisite: Consent of instructor. ECE068A, F; ECE068B, W; ECE068C, Sp

ECE150 Introduction and Observation in Early Childhood Education
3 class hr/wk, 3 cr.
Focuses on the history of early childhood education and the value and use of objective observations as a teaching tool. Includes weekly lecture-discussion and weekly observations. F

ECE151 Observing and Guiding Behavior
3 class hr/wk, 3 cr.
Continues observing experiences. Emphasizes the role of the teacher and techniques of individual and group guidance and management. W

ECE152 Creative Activities
2 class and 2 lab hr/wk, 3 cr.
Focuses on understanding and implementing a developmental approach to creative activities for the young child. Involves hands-on experience with a wide variety of activities. Discusses presentation and methods of evaluation. Includes art activities, use of natural materials, cooking experiences, puppet-making and the development of new art. W

ECE153 Music and Movement for Young Children
3 class hr/wk, 3 cr.
Emphasizes music as a pleasurable medium of expression while learning why and how to provide music and movement activities for the young child. Presents the value of music in the preschool setting; the role of the teacher; environments that support music and movement experiences; basic music theory and terminology; and the use of spontaneous and planned activities for young children. Sp

ECE154 Children's Literature and Literacy
3 class hr/wk, 3 cr.
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 groups with children. Explores in depth how children develop literacy. Sp

ECE155 Child Nutrition
2 class hr/wk, 2 cr.
Introduces human nutrition and health with emphasis on the nutritional needs and food experiences of the young child. Includes practical application in the day care setting, planning snacks and meals for preschool children. W

ECE161 Infant/Toddler Practicum
1 class and 6 lab hr/wk, 3 cr.
Provides experience working with infants and toddlers in a laboratory setting and in assisting with supervision of the various daily activities. Prerequisite: HDF249 with a grade of C or better; or consent of instructor. F, 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 in working with young children in an organized setting and assisting with supervision of the various daily activities in a preschool 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 planning, executing and evaluating of curriculum materials appropriate for the young child. Prerequisite: HDF225, HDF247, HDF249, ECE151, and ECE162, and consent of two ECE faculty. (All prerequisite courses must be completed with a grade of C or better.) F, W, Sp

ECE251 Environments for Young Children
3 class hr/wk, 3 cr.
Focuses on planning, implementing and evaluating environments for preschool children. Includes how to facilitate play in the environment, room arrangements, outdoor areas, equipment selection and sources, children's furniture, and scavenging for materials usable in the preschool environment. Prerequisite: Second-year standing in the Early Childhood Education program or consent of instructor. F
ED130 Comprehensive Classroom Management
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

ECE260 Student Teaching 2: Early Childhood Education
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 Early Childhood 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; or consent of instructor. Sp

ED

Education

ED100 Introduction to Education
2 class 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

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: ED100 with a grade of C or better; or consent of instructor. W, Sp

ED169 Overview of Inclusion in the Classroom Students with Special Needs
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 IDEA (Individuals with Disabilities Education Act) with special attention to the diverse population of today's schools. W, Sp, Su

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: ED100 with a grade of C or better; or consent of instructor. Offered as needed.

ED229 Learning and Development
3 class hr/wk, 3 cr.
Addresses current theory regarding human development, intelligences, motivation and the learning process. Applies strategies and techniques derived from these theories. Prerequisite: ED100 with a grade of C or better; or consent of instructor. F, W, Sp, Su

ED235 Education Technology
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. Offered as needed.

ED258 Introduction to Multicultural Education and English Language Learners
3 class hr/wk, 3 cr.
Explores the history and philosophy of multicultural education. Examines second language development, including an overview of culturally and linguistically appropriate teaching strategies. Discusses the value of integrating families and communities in multicultural education. F, W, Su

ED267 Working with Students with Autism Disorders
3 class and 3 lab hr/wk, 4 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. Offered as needed

EGR

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: MTH252 with grade of C or better; or consent of instructor. 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: MTH252 and EGR201, both with a grade of C or better; or consent of instructor. 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: MTH252 and EGR201; 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: MTH252 with grade of C or better; or consent of instructor. 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: EGR211, 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: EGR211 and MTH252, both with a grade of C or better; or consent of instructor. Sp
ELT 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: ELT130 with a grade of C or better; or consent of instructor. 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: MTH081 with a grade of C or better; or consent of instructor. F, W

ELT131 Electronic Concepts 1
3 class and 3 lab hr/wk, 4 cr.
Covers atomic and direct current (DC) 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: MTH070 with a grade of C or better; or consent of instructor. Corequisite: MTH111 or MTH081. F, W

ELT132 Electronic Concepts 2
3 class and 3 lab hr/wk, 4 cr.
Covers atomic and alternating current (AC) electrical theory applicable to resistors, capacitors, and inductors. Stresses reactive circuit theorems used for circuit analysis. Prerequisite: ELT131 with a grade of C or better; or consent of instructor. Corequisite: MTH112. W

ELT133 Electronic Concepts 3
3 class and 3 lab hr/wk, 4 cr.
Covers electric circuit theory and analysis applicable to passive RLC reactive circuits. Includes transformers, polyphase AC, resonance, passive filters, and other RLC series/parallel circuit applications. Applies fundamental AC/DC concepts developed in ELT131 and ELT132. Promotes and supports sustainable and green technologies. Prerequisite: ELT132 with a grade of C or better; or consent of instructor. 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. Corequisite: ELT132. W

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, combinational 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, both with a grade of C or better; and concurrent enrollment in ELT133 and ELT142; or consent of instructor. 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: ELT111, ELT121, ELT132, and ELT151; 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, both with a grade of C or better; or consent of instructor. F

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 builds 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
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, both 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:** CIS140B or NET123, 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 and CIS278, both 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**

ELT262 Linear IC Applications
2 class and 3 lab hr/wk, 3 cr.
Covers design and industrial applications using the integrated circuit amplifier and special function IC devices to study basic circuits. Includes laboratory evaluation of selected basic circuit designs. Promotes and supports sustainable and green technologies. **Prerequisite:** ELT244 and ELT161, both with a grade of C or better; or consent of instructor. **W, Offered as needed**

ELT280B-L Cooperative Work Experience
See CWE–Cooperative Work Experience.

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, both 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 ELT16, both with a grade of C or better; or equivalent course as determined by instructor. **Sp, Offered as needed**

ELT2891 Control, Robotics, and Power Systems
3 class and 3 lab hr/wk, 4 cr.
Covers principles and concepts of electronic 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, both with a grade of C or better; or consent of instructor. **Sp, Offered as needed**

ELT291 Control, Robotics, and Power Systems
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**

**EMT**

Emergency Medical Technology

EMT151 Emergency Medical Technician, Part 1
4 class and 3 lab hr/wk, 5 cr.
Provides instruction at the level of Emergency Medical Technician who is 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:** Placement into WR080 or higher; and 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. Must currently be certified in CPR for BLS Health Care Providers as issued in accordance with current national standard curriculum. Must meet standards as set by the Oregon State EMS Office for licensure which includes health, driving, immunization and criminal record check. **F, W, Su, Offered as needed**
EMT152B Emergency Medical Technician, 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 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 courses. Prerequisite: EMT151 with a grade of C or better. Must meet standards as set by the Oregon State EMS Office for licensure which includes health, driving, immunization, and criminal record check. Offered as needed

EMT163 Advanced Emergency Medical Technician, 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 EKG 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 ambulance. 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 AEMT sequence. Prerequisite: EMT163 with a grade of C or better. Offered as needed

EMT164 Advanced Emergency Medical Technician, 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 EKG 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 ambulance. 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 AEMT sequence. Prerequisite: EMT163 with a grade of C or better. 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 EKG 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; and 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
EMT167 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 (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, intrasosseous, 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

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, and stress management. 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. Sp

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 sequence, which includes EMT296, EMT297, EMT298, and EMT280H. Focuses on patient assessment; airway/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 part of a three-term course, which includes EMT296, EMT297, EMT298 and EMT280H. Focuses on anaphylactic, toxicological, environmental, geriatric, pedi atric, neonatal, and endocrine emergencies; infectious diseases; capnography; special patient populations; hematology; psychiatric care; crime scene presentation; geriatric 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 part 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

ENG

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 and RD090; or WR090 with a grade of C or better; or consent of instructor. F, W, Sp, Su

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. Prerequisites: Placement into WR115 and RD090; or WR090 with a grade of C or better; or consent of instructor. 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. Prerequisites: Placement into WR115 and RD090; or WR090 with a grade of C or better; or consent of instructor. 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 and RD090; or WR090 with a grade of C or better; or consent of instructor. 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 and RD090; or WR090 with a grade of C or better; or consent of instructor. 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 and RD090; or WR090 with a grade of C or better; or consent of instructor. W, Sp; CL

ENG201 Introduction to Shakespeare 4 class hr/wk, 4 cr.
Surveys selected early (1587-1600) Shakespearean works, emphasizing dramatic structure, characterization, imagery and theme. Uses critical essays to explore these plays and poems to provide background on the nature of the different genres of Shakespeare's works including at least one example from each of these genres: comedies, tragedies, histories, and sonnets, and covering a minimum of six plays. Prerequisite: Placement into WR121; or WR115 with a grade of C or better; or consent of instructor. W

ENG202 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; or WR115 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 WR115 or WR115 with a grade of C or better; or consent of instructor. W, 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 middle-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 with a grade of C or better; or consent of instructor. W, 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. Sp, Offered as needed; CL

ENG209 Survey of English Literature 4 class hr/wk, 4 cr.
Surveys selected representative works of English literature from 1832 through 1900. 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. 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 with a grade of C or better; or consent of instructor. W, Offered as needed

ENG210 Survey of English 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 with a grade of C or better; or consent of instructor. W, Offered as needed

ENG211 Survey of English 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 with a grade of C or better; or consent of instructor. W, Offered as needed

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 with a grade of C or better; or consent of instructor. W, Offered as needed

ENG221 Topics in British Literature 4 class hr/wk, 4 cr.
Examines a special topic in British Literature in depth. Includes content organized around one of the following: an author, a movement, a genre, a period, a theme, or some other coherent focal point. Course may be repeated for a maximum of 12 credits. Prerequisite: Placement into WR121; or WR115 with a grade of C or better; or consent of instructor. Offered as needed

ENG230 Topics in American Literature 4 class hr/wk, 4 cr.
Examines a special topic in American Literature in depth by exploring the gendered, cultural, ideological, and political dimensions of literature written in the land now called United States. Emphasizes the complex role literature plays in forming and being formed by historical, cultural, political, ideological, and social contexts. Includes content organized around one of the following: an author, a movement, a genre, a period, a theme, or some other coherent focal point that highlights the dynamic and complex forces that help form this country's identity. Course may be repeated for a maximum of 12 credits. Prerequisite: Placement into WR121; or WR115 with a grade of C or better; or consent of instructor. Offered as needed

ENG245 Introduction to Mythology and Folklore 24 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 WR115 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 with a grade of C or better; or consent of instructor. F; CL

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 with a grade of C or better; or consent of instructor. W; CL

ENG256 African-American Literature
4 class hr/wk, 4 cr.
Surveys the literature of the African-American people considering the complexity of cultural, social, regional, and historical influences and exchanges that have contributed to the formation of African-American literary traditions. Recognizes literary works as socially constructed and attends to the variety of voices and perspectives that make up African-American literature. Examines the literary synthesis of cultures as well as experiences, including but not limited to African, Caribbean and European origins; slavery; Diaspora; reconstruction; Harlem Renaissance; and the Civil Rights movement, as well as to the tensions such syntheses create. Explores the connection between literature and politics, and literature and social change. Genres studied include a representative sampling from several of the following: poetry, short story, novel, drama, autobiography, letters, journals, biography, speech, essay, and lyrics. A chronological, thematic, or stylistic approach may be taken. Prerequisite: Placement into WR121; or WR115 with a grade of C or better; or consent of instructor. Offered as needed; CL

ENG257 Native American Literature
4 class hr/wk, 4 cr.
Introduces formal written and oral literatures by Native Americans through a wide variety of texts from different tribes, regions and individual authors. Examines world views and major thematic currents of Native American literatures; distinctive characteristics of Native American writing; characteristics it shares with Euro-American writing; and characteristics of oral literature. Prerequisite: Placement into WR121; or WR115 with a grade of C or better; or consent of instructor. Sp; CL

ENG258 Latin American Literature
4 class hr/wk, 4 cr.
Features reading and analysis of works by Latin American writers, from a wide range of countries, races, and classes, giving attention to literary styles, historical background, and the unique voices and perspectives of these authors. A chronological, regional, or thematic approach may be taken. Prerequisite: Placement into WR121; or WR115 with a grade of C or better; or consent of instructor. Offered as needed; CL

ENG260 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 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 WR115 with a grade of C or better; or consent of instructor. Offered as needed

ENG265 Capitalism and the Natural Environment
4 class hr/wk, 4 cr.
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 WR115 with a grade of C or better; or consent of instructor. Offered as needed; CL

ENG275 The Bible as Literature
4 class hr/wk, 4 cr.
Explores the Bible as a literary text by examining literary forms, cultural context, history, authorship, and canonicity. Examines the way themes, stories, and idioms of the Bible influence contemporary western literature and culture. Uses the techniques and language of literary criticism as a key to understanding the text. Prerequisite: Placement into WR121; or WR115 with a grade of C or better; or consent of instructor. W

ENL

English as a Non-Native Language

ENL031G ESL Intermediate Grammar 1
3 class hr/wk, 3 cr.
Focuses on improving grammatical accuracy in oral and written communication and on improving reading and listening comprehension through greater understanding of grammatical structures. Designed for low intermediate to intermediate non-native speakers of English. Prerequisite: Successful completion of XELL0722X and XELL0722Y; and a score of 34 or higher on the CELSA; or placement by an ESL specialist after assessment; or consent of instructor. Offered as needed.
ENL031L Intermediate Listening 1 3 class hr/wk, 3 cr.
Develops listening skills and strategies for everyday situations, the workplace, and the academic environment. Designed for intermediate non-native speakers of English. **Prerequisite:** Completion of assessment and orientation procedures; and successful completion of XELL0722L; or placement by ESL program specialists. F, W, Sp

ENL031P Basic English Pronunciation 1 3 class hr/wk, 3 cr.
Introduces basic principles of American English pronunciation. Focuses on developing a pronunciation plan, using a dictionary to pronounce words, pronouncing English vowels and consonants, syllables, word endings, and word stress. Designed for non-native English speakers at the low intermediate level. **Prerequisite:** ENL022S, ENL022L, ENL022R and ENL022W; and placement by ESOL program specialist; or consent of the instructor. (All prerequisite courses must be completed with a grade of C or better.) F, W

ENL031R Intermediate Reading 1 3 class hr/wk, 3 cr.
Develops reading skills for everyday situations, the workplace, and the academic environment. Reviews and broadens the use of grammar, vocabulary, and strategies for reading. Designed for intermediate non-native speakers of English. **Prerequisite:** Completion of assessment and orientation procedures; and successful completion of XELL0722R; or placement by ESL program specialists. F, W, Sp

ENL031S Intermediate Speaking 1 3 class hr/wk, 3 cr.
Develops speaking skills for everyday situations, the workplace, and the academic environment. Designed for intermediate non-native speakers of English. **Prerequisite:** Completion of assessment and orientation procedures; and successful completion of XELL0722S; or placement by ESL program specialists. F, W, Sp

ENL031W Intermediate Writing 1 3 class hr/wk, 3 cr.
Introduces the writing of short paragraphs using chronological order, transition words, correct spelling, and punctuation. Designed for intermediate non-native speakers of English. **Prerequisite:** Completion of assessment and orientation procedures; and successful completion of XELL0722W; or placement by ESL program specialists. F, W, Sp

ENL032G ESL Intermediate Grammar 2 3 class hr/wk, 3 cr.
Focuses on improving grammatical accuracy in oral and written communication and on improving reading and listening comprehension through greater understanding of grammatical structures. Designed for intermediate non-native speakers of English. **Prerequisite:** ENL31G with a grade of C or better; and a score of 42 or higher on the CELSA; or placement by an ESOL specialist. **Offered as needed.**

ENL032L Intermediate Listening 2 3 class hr/wk, 3 cr.
Continues to develop listening skills and strategies for everyday situations, the workplace, and the academic environment. Designed for intermediate non-native speakers of English. **Prerequisite:** Completion of assessment and orientation procedures; and ENL031L with a grade of C or better; or placement by ESL program specialists. F, W, Sp

ENL032P Basic English Pronunciation 2 3 class hr/wk, 3 cr.
Introduces basic principles of U.S. American English pronunciation. Focuses on using a pronouncing key, pronouncing English vowels and consonants, rhythm in sentences, intonation in discourse and comprehending connected or rapid speech. Designed for non-native English speakers at the low-intermediate level. **Prerequisite:** ENL031P with a grade of C or better; or consent of the instructor. **Offered as needed.**

ENL032R Intermediate Reading 2 3 class hr/wk, 3 cr.
Continues to develop reading skills for everyday situations, the workplace, and the academic environment. Reviews and broadens the use of grammar, vocabulary, and strategies for reading. Designed for intermediate non-native speakers of English. **Prerequisite:** Completion of assessment and orientation procedures; and ENL031R with a grade of C or better; or placement by ESL program specialists. F, W, Sp

ENL032S Intermediate Speaking 2 3 class hr/wk, 3 cr.
Continues to develop speaking skills and strategies for everyday situations, the workplace, and the academic environment. Designed for intermediate non-native speakers of English. **Prerequisite:** Completion of assessment and orientation procedures; and ENL031S with a grade of C or better; or placement by ESL program specialists. **Offered as needed.**

ENL032W Intermediate Writing 2 3 class hr/wk, 3 cr.
Continues to focus on writing simple narrative and descriptive paragraphs about daily activities and personal experiences. Designed for intermediate non-native speakers of English. **Prerequisite:** Completion of assessment and orientation procedures; and ENL031W with a grade of C or better; or placement by ESOL program specialists. F, W, Sp

ENL033T Technology for ESL 3 class hr/wk, 3 cr.
Introduces basic computer operations to intermediate and advanced non-native speakers of English. Covers using a computer operating system, word processing basics, and basic Internet skills and concepts. **Prerequisite:** Completion of assessment and orientation procedures or placement by an ESOL program specialist. **Offered as needed.**

ENL040A Introduction to Academic Listening and Speaking 3 class hr/wk, 3 cr.
Focuses on listening and speaking skills needed in social and academic settings. Introduces note-taking, formal presentations, and conversation management. Designed for non-native English speakers at the intermediate level. **Prerequisite:** Completion of assessment and orientation procedures; and ENL032L and ENL032S, both with a grade of C or better; or placement by ESOL program specialist. **Offered as needed.**

ENL041G Introduction to College Grammar 1 3 class hr/wk, 3 cr.
Focuses on improving grammatical accuracy in oral and written communication and on improving reading and listening comprehension through greater understanding of grammatical structures. Designed for high intermediate to low advanced non-native speakers of English. **Prerequisite:** ENL032L, ENL032R, ENL032S, and ENL032W; or ENL032G; and a score of 47 or higher on the CELSA; or placement by an ESOL specialist; or consent of instructor. (All prerequisite courses must be completed with a score of C or better.) **Offered as needed.**

ENL041L Introduction to Academic Listening 1 3 class hr/wk, 3 cr.
Focuses on simple work and community related listening and introduces simple academic listening. Designed for non-native English speakers at the intermediate level. **Prerequisite:** Completion of assessment and orientation procedures; and successful completion of XELL0732L; or placement by ESOL program specialists. **Offered as needed.**
ENL041P Introduction to English Pronunciation
3 class hr/wk, 3 cr.
Develops principles of American English pronunciation. Focuses on creating a pronunciation plan, using a dictionary, pronouncing English vowels and consonants, sound and spelling patterns, syllables and word endings, and stress patterns in words. Designed for non-native English speakers at the high-intermediate level. Prerequisite: ENL032S, ENL032L, ENL032R and ENL032W (or corresponding non-credit courses); and placement by ESOL program specialists. Offered as needed.

ENL041R Introduction to College Reading 1
3 class hr/wk, 3 cr.
Provides continued development of reading for the transition from life skills reading to academic reading. Broadens the use of grammar, vocabulary, and more complex strategies for reading. Designed for intermediate, non-native speakers of English. Prerequisite: Completion of assessment and orientation procedures; and successful completion of XELL0732R; or placement by ESOL program specialists. Offered as needed.

ENL041S Introduction to Academic Speaking 1
3 class hr/wk, 3 cr.
Focuses on work and community related speaking skills and introduces simple academic speaking. Designed for non-native English speakers at the intermediate level. Prerequisite: Completion of assessment and orientation procedures; successful completion of XELL0732S; or placement by ESOL program specialists. Offered as needed.

ENL041W Introduction to College Writing 1
3 class hr/wk, 3 cr.
Provides an introduction to academic writing in English. Focuses on the continued development of paragraph writing and editing. Designed for intermediate, non-native speakers of English. Prerequisite: Completion of orientation and assessment procedures; and successful completion of XELL0732W; or placement by ESOL program specialists. Offered as needed.

ENL042G Introduction to College Grammar
3 class hr/wk, 3 cr.
Focuses on improving grammatical accuracy in oral and written communication and on improving reading and listening comprehension through greater understanding of grammatical structures. Designed for high intermediate to low advanced non-native speakers of English. Prerequisite: Completion of assessment of procedures; and a score of 50 or above on the CELSA; and ENL031G with a grade of C or better; or placement by an ESOL specialist; or consent of the instructor. Offered as needed.

ENL042P Introduction to English Pronunciation 2
3 class hr/wk, 3 cr.
Introduces additional principles of U. S. American English pronunciation. Reviews vowels, consonants, syllabication and word stress. Focuses on rhythm in sentences, intonation patterns in phrases and sentences, thought groups, pausing, phrasing, and comprehending rapid, connected speech. Designed for non-native English speakers at the high-intermediate level. Prerequisite: ENL041P with a grade of C or better; or successful completion of XELL0741P; or consent of the instructor. Offered as needed.

ENL042R Introduction to College Reading 2
3 class hr/wk, 3 cr.
Provides development of reading for the transition from life skills reading to academic reading. Broadens the use of grammar, vocabulary and more complex strategies for reading. Designed for intermediate, non-native speakers of English. Prerequisite: Completion of assessment and orientation procedures; and ENL041R with a grade of C or better; or placement by ESOL program specialists. Offered as needed.

ENL042W Introduction to College Writing 2
3 class hr/wk, 3 cr.
Builds on basic academic writing skills, emphasizing paragraph development and editing in tasks requiring several linked paragraphs. Introduces basic academic essays. Designed for high-intermediate, non-native speakers of English. Prerequisite: Completion of orientation and assessment procedures; and ENL041W with a grade of C or better; or placement by ESOL program specialists. Offered as needed.

ENL150A Academic Listening and Speaking
3 class hr/wk, 3 cr.
Develops listening and speaking skills needed in academic and social settings. Focuses on strategies, formal language, note-taking, and presentations. Designed for advanced non-native speakers of English. Prerequisite: Completion of assessment and orientation procedures; and ENL040C, ENL041L, ENL041S, ENL042L or ENL042S; or placement by ESOL program specialist. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed.

ENL151A Jumpstart Your Academic Language Skills
3 class hr/wk, 3 cr.
Develops the American academic skills of note-taking, vocabulary and reading skills and knowledge of American academic culture needed to understand college lectures and textbooks. Designed for low-advanced non-native speakers of English who plan to enter college but need to improve their academic language to be successful. Prerequisite: Completion of assessment and orientation procedures; ENL040, ENL041 or ENL042; or placement by ESOL program specialist. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed.

ENL151LENL Academic Listening 1
3 class hr/wk, 3 cr.
Develops listening skills needed in social and some simplified academic settings. Addresses vocabulary development and pronunciation needed to understand speech at a normal speed. Designed for non-native English speakers at the advanced level. Prerequisite: ENL042L with a grade of C or better; or placement by ESOL program specialists. Offered as needed.

ENL151P Advanced English Pronunciation 1
3 class hr/wk, 3 cr.
Focuses on development of the principles of American English pronunciation including correct production of English vowels and consonants, word stress, and rhythm. Designed non-native speakers of English at the advanced level. Prerequisite: ENL042P with a grade of C or better; or placement by an ESOL program specialist. Offered as needed.

ENL151R ENL College Reading 1
3 class hr/wk, 3 cr.
Introduces extended reading in an academic context. Builds academic vocabulary, reading strategies and cultural knowledge to prepare students for college transition. Designed for non-native speakers of English at the advanced level. Prerequisite: ENL042R with a grade of C or better; or placement by ESOL program specialist. Offered as needed.
ENL151W ENL College Writing 1
3 class hr/wk, 3 cr.
Focuses on the development of advanced writing skills for college transition. Reviews paragraph writing and provides continued practice of editing skills. Focuses on academic essay writing and introduces use of outside source material. Designed for non-native speakers of English at the advanced level. Prerequisite: ENL042W with a grade of C or better; or placement by an ESOL program specialist. Offered as needed.

ENL152P Advanced English Pronunciation 2
3 class hr/wk, 3 cr.
Focuses on further applying and adapting the principles of American English pronunciation to the student's occupational and academic communication. Reviews stress, rhythm, vowels and consonants. Designed for non-native speakers of English at the advanced level. Prerequisite: ENL151P with a grade of C or better; or placement by an ESOL program specialist. Offered as needed.

ENL152R ENL College Reading 2
3 class hr/wk, 3 cr.
Develops higher-level academic vocabulary, reading strategies, and cultural knowledge for college transition. Focuses on extended readings in an academic context. Designed for non-native speakers of English at the advanced level. Prerequisite: ENL151R with a grade of C or better; or placement by an ESOL program specialist. Offered as needed.

ENL152W ENL College Writing 2
3 class hr/wk, 3 cr.
Focuses on expository writing for college. Covers essay writing process, note-taking, outlines, summarizing, paraphrasing, citation, editing, and word choice. Continues practice in the use of outside source material to support main ideas in essays. Designed for non-native speakers of English at the advanced level. Prerequisite: ENL151W with a grade of C or better; or placement by an ESOL program specialist. Offered as needed.

ENT Entrepreneurship

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. F, W, Sp, Su

ENT150A Planning Your Business 1
3 class hr/wk, 3 cr.
Examines the process of researching, developing, and writing a detailed start-up business plan. Centers on the segments of business planning, including opportunity recognition, business concept development, feasibility testing, and the business plan. First of a three-term sequence. F, W, Sp, Su

ENT150B Planning Your Business 2
3 class hr/wk, 3 cr.
Examines the process of researching, developing, and writing a detailed start-up business plan. Focuses on the elements of marketing, including industry analysis, market penetration, and product/service pricing. Prerequisite: ENT150A with a grade of C or better; or consent of the instructor. F, W, Sp, Su

ENT150C Planning Your Business 3
3 class hr/wk, 3 cr.
Examines the process of researching, developing, and writing a detailed start-up business plan. Covers financial planning, including cash flow, inventory, equity and debt, and financial statements. Also addresses plan evaluation and presentation, and next steps in establishing a business. Prerequisite: ENT150B with a grade of C or better; or consent of instructor. F, W, Sp, Su

ES 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

FA Film Arts

FA255 Understanding Movies: Film Styles
3 class and 2 lab hr/wk, 4 cr.
Features critical analysis and appreciation of cinema through the viewing and study of feature length English-language films, as well as short films and films in translation. Introduces the generic, thematic, and stylistic variety of cinematic art. 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 WR090 with a grade of C or better; or consent of instructor. F

FA256 Understanding Movies: The Great Directors
3 class and 2 lab hr/wk, 4 cr.
Features critical analysis and appreciation of cinema through the viewing and study of films from the standpoint of the director as creator. Highlights the films of one or two directors in an effort to understand and critique the individual films as the work of an artist, especially within the context of viewing the films as an evolving body of work expressing a particular and unique view of the world. Analyzes the generic, thematic, and stylistic tendencies of the director. 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 WR090 with a grade of C or better; or consent of instructor. W

FA257 Understand Movies: Themes and 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, national movement, or thematic topic. Emphasizes analysis of categorical similarities, significant differences or deviations, and explores the films’ continued relevance. 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 WR090 with a grade of C or better; or consent of instructor. Sp
FE

Field Experiences

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.
Shows you how to apply for the job you want. Covers composition and analysis of all written correspondence used in applying for employment, including applications, resumes, and other employment-related communications. F, W, Sp, Su

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

FE220 Preparing for the Changing Workplace
3 class hr/wk, 3 cr.
Explores issues of difference, power, and responsibility in the workplace. Focuses on skills, values, social and cultural work issues, including workplace communication. Offers experience working as part of a team in a service learning project. F, W, Sp

FE280B-L Cooperative Work Experience
See CWE-Cooperative Work Experience

FLM

Filmmaking

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: Demonstrated ability to work with computers. F, 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: FLM265 with a grade of C or better; or consent of instructor. W

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, compositing and complex audio mixes. Applies these skills to documentary projects, narrative projects, or both. Includes a studio production component. Prerequisite: FLM266 with a grade of C or better; or consent of instructor. Offered as needed

Food and Nutrition
See NFM-Nutrition and Food Management

FR

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. 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. Prerequisite: These courses are to be taken sequentially. FR101: None. FR102: FR101 with a grade of C or better; or one year of high school French; or consent of instructor. FR103: FR102 with a grade of C or better; or two years of high school French; or consent of instructor. 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, 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. Prerequisite: These courses are to be taken sequentially. FR201: FR103 with a grade of C or better; or three years of high school French; or consent of instructor. FR202: FR201 with a grade of C or better; or consent of instructor. FR203: FR202 with a grade of C or better; or consent of instructor. FR201, F; FR202, W; FR203, Sp

FRP

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. 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 ISI 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 Driver certification and driving portions of Pumper Operator. 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 Driver and Pumper Operator certification. Students completing the course will take written and task performance tests for Driver. 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 Pumper Operator. Prerequisite: FRP152 and MTH070, both with a grade of C or better; or consent of instructor. Offered as needed

FRP155 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, FRP152 or consent of instructor. Offered as needed

FRP159 Fire Department Leadership
1 class hr/wk, 1 cr.
Introduces the role of human resource services employee. 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, FRP152 or consent of instructor. 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 work together to promote safety at every emergency scene. 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 awareness of public safety. Offered as needed

FRP166 Firefighter’s Law
1 class hr/wk, 1 cr.
Covers the legal responsibilities of firefighters in driving, inspection, emergency operations, communication, fire prevention, and rights. 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 Management Practices
1 class hr/wk, 1 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 Pumper Operator. Prerequisite: FRP152 and MTH070, both with a grade of C or better; or consent of instructor. Offered as needed

FRP169 Fire Department Leadership
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

FRP170 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

FRP171 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. 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, NFPA 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, liabilities and 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
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 DPSST 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

FRP258 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 Firefighter I. Includes a practicum for Driver and Pumper Operator certifications. Students completing the course will take written and task performance tests for Firefighter I and Pumper Operator. Prerequisite: FRP261 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 Firefighter I. Includes a practicum for Driver and NFPA Pumper Operator certifications. Students completing the course will take written and task performance tests for Firefighter I and NFPA Pumper Operator. 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.

FRP262 Fire Incident Related Experience 5
9 lab hr/wk, 3 cr.
Introduces new skills and provides a practicum for Firefighter II, Driver and Pumper Operator 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.

FRP262H Fire Incident Related Experience 5: Honors
9 lab hr/wk, 3 cr.
Introduces new skills and provides a practicum for Firefighter II, Driver and Pumper Operator 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 Firefighter II, Driver and Pumper Operator 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 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 Firefighter II, Driver, and Pumper Operator 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 Firefighter II. Provides a practicum for leadership, supervisory, and management skills. 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, wild-land, 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.

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-application information, written inspection notices, relations with owners and occupants, and compliance. Prerequisite: FRP172, FRP260, and FRP266; or consent of instructor. (All prerequisite courses must be completed 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.
FRP288 Fire Prevention Education  
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, both 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, fire code standards and National Fire Protection Standards. Prerequisite: FRP171 with a grade of C or better; or consent of instructor. Offered as needed

GE102 Engineering Computations  
2 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: GE101 with a grade of C or better; or consent of instructor. Sp

GE103 Engineering Computations  
2 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: GE101 with a grade of C or better; or consent of instructor. Sp

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. 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. 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. W, Su

FYE105 Creating College Success  
2 class hr/wk, 2 cr.  
Focuses on strategies for taking personal responsibility to create positive outcomes in college and in life. Covers developing self-awareness, personal responsibility, self-motivation, and self-management. Prerequisite: Placement into RD080 and WR080; or consent of instructor. F, W, Sp, Su

GEG100 Exploring Geography  
1 class hr/wk, 1 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. F, W, Sp, Su

GEG105 Physical Geography  
3 class and 3 lab 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. 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. Emphasizes the unequal distribution of power in the U.S. with regard to religion, ethnicity, and language. 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. 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. Offered as needed

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. F, W, Sp

GEG220 Geography of the Middle East  
4 class hr/wk, 4 cr.  
Examines the physical and cultural environments of the Middle East, including climate, landform, natural resources, livelihoods, ethnic groups, languages, population, and settlement patterns. Emphasizes recent geopolitical disputes in the Middle East, giving special attention to the Arab-Israeli conflict, including the formation of a Palestinian state. Offered as needed
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. Sp

GS

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. 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. 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. 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 processes of the universe and the objects within. 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, and weather instruments. F, W, Sp, Su

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 and human processes are not keeping up with the pace of change and considers how the Earth 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. F, W, Sp, Su

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. F, W, Sp, Su

GS143 General Science: Oceanography
3 class and 3 lab hr/wk, 4 cr.
Focuses on the physical properties of the marine environment as a unique feature of planet Earth. Sp

HDF

Human Development and Family Studies

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. F, W, Sp, Su

HDF222 Family Relationships
3 class hr/wk, 3 cr.
Examines communication patterns and relationships between adults, children, and children, and within intimate personal relations (marriage, families, and couple relations). Emphasizes understanding the role of the family and its consequent role in the development of the individual. 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. Emphasizes physical, intellectual, emotional, and social growth and development of young children. F, W

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, and an in-home family child care program, two university child care centers and Head Start classrooms. F, W

HDF229 Development in Middle Childhood
3 class hr/wk, 3 cr.
Studies growth and development in 6- through 12-year-old children. Emphasizes physical, intellectual, emotional, and social growth of the school-aged child. Sp

HDF247 Preschool Child Development
3 class hr/wk, 3 cr.
Examines the principles of development as they apply to the young child, primarily ages 2 1/2 through 5. Emphasizes physical, intellectual, emotional and social growth in children. F, W
HDF248 Learning Experiences for Young Children
3 class hr/wk, 3 cr.
Focuses on planning and implementing preschool curriculum based on development theory. Involves lectures and experiences covering presentation, development, analysis, and evaluation of materials and concepts which facilitate development of the whole child (physical, social, emotional, and cognitive). Prerequisite: HDF225 and HDF247, both with a grade of C or better; or consent of instructor. Sp

HDF249 Introduction to Working with Infants and Toddlers
3 class hr/wk, 3 cr.
Assists child care practitioners who work with infants and toddlers in child development centers and home settings. Focuses on understanding, facilitating, and respecting infant and toddler development. Appropriate environmental planning, activities, and observation skills will be discussed, demonstrated, and practiced. F, W

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/community opportunities. Prerequisite: Second-year standing in the Early Childhood Education program 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. W, Sp

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. F, Sp

HDF285 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 an anti-bias professional attitude. Also covers historical perspectives relating to early childhood education. Prerequisite: Second-year standing in the Early Childhood Education program or consent of instructor. F

HE

Health Education
See also HM–Health Information Management, HPE–Health and Human Performance

HE204 Nutrition, Weight Control, and Physical Fitness
3 class hr/wk, 3 cr.
Presents methods of maintaining or improving fitness, weight control, and lifetime health status through consideration of diets and dieting, obesity, types of exercise, cardiovascular fitness and nutritional concepts. F, W, Sp, Su

HE209 Human Sexuality
3 class hr/wk, 3 cr.
Covers mental, physical, and social aspects of human sexuality. Emphasizes development of a decision-making model that enables the individual to make personal choices. F, W, Sp

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. W, Sp

HE250 Personal Health
3 class hr/wk, 3 cr.
Introduces renal replacement therapy for persons with end stage renal disease. Includes 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. Includes learning machine set up and preparation, collection of specific patient information and monitoring of the patient during the treatment. Covers the role of the hemodialysis technician in relation to the patient, and the professional team, including documentation and professional behaviors and communication. Also included are Personal Protective Equipment (PPE), Health Information Privacy and Portability Act (HIPPA), First Aid and CPR. Prerequisite: HM120 with a grade of C or better, or concurrent enrollment; and proof of current health care provider first aid/CPR certification; or consent of instructor. Offered as needed.
HEM102 Hemodialysis Technology 2
4 class and 8 lab hr/wk, 8 cr.
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. Focuses on safety and infection control in response to alarms, urgent, and emergent changes in patient’s condition, as well as determining treatment goals and providing the prescribed treatment. Identifies the effects of renal failure on all body systems, and the emotional and social effects of renal failure for patients and their families. Prerequisite: HEM101 with a grade of C or better; or consent of instructor. Offered as needed

HEM103 Hemodialysis Technology 3
4 class and 8 lab hr/wk, 8 cr.
Integrates the knowledge of the hemodialysis patient and the treatment process to deliver a hemodialysis treatment 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. 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: HEM102 with a grade of C or better; or consent of instructor. Offered as needed

Health Information Management
See also AH–Allied Health

HM1101 Medical Law and Ethics
3 class hr/wk, 3 cr.
Explores the relationships between the law, ethics and bioethics and the health care professional. Introduces students to privacy, security, confidentiality, legal policies and procedures, and ethical issues. An interactive class using case studies, independent and group projects, and personal reflection to identify common legal and ethical problems. F, W, Sp, Su

HM1102 Hemodialysis Technology 2
3 class and 3 lab hr/wk, 4 cr.
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. Focuses on safety and infection control in response to alarms, urgent, and emergent changes in patient’s condition, as well as determining treatment goals and providing the prescribed treatment. Identifies the effects of renal failure on all body systems, and the emotional and social effects of renal failure for patients and their families. Prerequisite: HEM101 with a grade of C or better; or consent of instructor. Offered as needed

HM1103 Hemodialysis Technology 3
4 class and 8 lab hr/wk, 8 cr.
Integrates the knowledge of the hemodialysis patient and the treatment process to deliver a hemodialysis treatment 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. 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: HEM102 with a grade of C or better; or consent of instructor. Offered as needed

HM1112 Health Information Systems and Procedures
3 class and 3 lab hr/wk, 4 cr.
Provides entry-level skills for Health Information Management. Offers basic knowledge of health information systems and the skills necessary for medical and hospital administrative functions. Includes Electronic Health Record (EHR) systems, the health information field, the content of a health record, health record processing of medical reports, and legal/ethical aspects of medical records. F

HM1113 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. Prerequisite: Admission to Health Information Management program. F, W, Sp

HM1114 CPT Coding/Reimbursement
3 class hr/wk, 3 cr.
Introduces the use of Current Procedural Terminology (CPT) coding system, insurance terminology and abbreviations, and basic health insurance systems. Prerequisite: HM122; and BI171 and BI172, or higher; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

HM1115 ICD-10-CM Coding/Diagnosis
3 class and 3 lab hr/wk, 3 cr.
Introduces basic differences between nomenclature and classification systems: basic coding system, and ICD-9-CM and ICD-10-CM; basic abbreviations and description of format of coding manual; fundamental application of coding in basic forms, computerized billing, and state and federal agencies. Prerequisite: HM122; and BI171 and BI172, or higher; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Sp

HM1120 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

HM1121 Medical Terminology 2
3 class hr/wk, 3 cr.
Focuses on the digestive, integumentary, nervous systems, sensory organs, lymphatic, urinary, female and male reproductive and endocrine systems. 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

HM1122 Medical Terminology 3/Human Diseases
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. Prerequisite: Admission to Health Information Management program. F, W, Sp

HM1123 Professional Development and Communication for Health Information Management
3 class hr/wk, 3 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. F

HM1128 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 based on clinical information, documentation and coding guidelines. Prerequisite: HM122; and BI171 and BI172, or higher; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) F

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HM161 Computer Technology and Systems for Health Information Management
3 class hr/wk, 3 cr.
Provides a comprehensive survey of the interconnections of information technology (IT) and health care. Teaches computer literacy and introduces students to the uses of information technology in health care delivery. Includes discussions of hardware and software, communications and networking, ethical issues, and privacy concerns. Discusses how IT is transforming every aspect of health care, from administrative applications to clinical systems involved in direct patient care, to special purpose applications. Prerequisite: Third-term standing in the Health Information Management program; or consent of instructor. Sp

HM210 Introduction to Health Services
3 class hr/wk, 3 cr.
Provides an overview of the nation's health system. Includes use of health services, history of the health care system, and hospitals and other health service 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. Prerequisite/Corequisite: WR227 with a grade of C or better; and second-year standing in the Health Information Management or Health Informatics programs; or consent of instructor. F

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 terminology 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 terminology as determined by instructor. (All prerequisite courses must be completed with a grade of C or better.) Su

HM217 Quality Data Management in Health Services
3 class hr/wk, 3 cr.
Introduces the health care student to 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, minimum and universal data sets used in all accredited organizations. Prerequisite: Second-year standing in the Health Information Management or Health Informatics programs; or consent of instructor. W

HM230 Health Information Management Practicum
15 lab hr/wk, 5 cr.
Provides workplace experience in a health care or related setting. Covers policies and procedures, work site organization, quality assessment, and job seeking tools. Prerequisite: Second-year standing in the Health Information Management program with a grade of C or better in all required courses; or consent of instructor. Sp

HM231 Health Information Management Seminar
1 class hr/wk, 1 cr.
Studies of the relationship between clinical practice in health care or related setting with theoretical course content and application to career and personal goals. Prerequisite/Corequisite: HM230 with a grade of C or better; or consent of instructor. Sp

HM250 Health Information Management 1
3 class hr/wk, 3 cr.
Introduces the management functions, concepts, and principles as well as managerial roles in the context of the health services organization and the health services delivery system. Prerequisite: Second-year standing in Health Information Management or Health Informatics programs; or consent of instructor. F

HM251 Health Information Management 2
3 class hr/wk, 3 cr.
Emphasizes the area of human resource management in health services organizations. Explores the concepts of motivation, leadership, communication, dynamics of change, personnel administration, labor relations, and new trends within the context of the health service organization and delivery system in the United States. Prerequisite: HM250 with a grade of C or better; or consent of instructor. W

HM252 Health Information Management 3
3 class hr/wk, 3 cr.
Provides a working knowledge of basic statistical techniques and their application to various health care literature and clinical environments. Uses the concepts of experimental and case-based learning to facilitate the learning process. Prerequisite: HM251 with a grade of C or better; and second year standing in Health Information Management or Health Informatics programs; or consent of instructor. Sp

HM280B-L Cooperative Work Experience
See CWE—Cooperative Work Experience

HOR

Horticulture

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
HOR113 Mathematical Applications in Horticulture
3 class hr/wk, 2 cr.
Uses application-based mathematics to solve problems in production horticulture. Focuses on algebraic and geometric concepts used to determine field layout and area, spray calibration, irrigation planning, and crop scheduling. Covers financial analysis, and other common horticultural calculations. Includes use of fractions, ratios, percentages, decimals, exponents, roots, and unit conversions. **Prerequisite:** MTH060 or equivalent, either with a grade of C or better. W

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

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**

HOR224 Horticulture Practicum
6 lab hr/wk, 3 cr.
Applies nursery and greenhouse production techniques in the greenhouse and nursery. Focuses on practical skills used in greenhouses and container and field production nurseries. Includes plant propagation, transplanting, water, fertilizer and pest management, and growth regulation. Provides skills and experience in retail nursery management. **Prerequisite:** HOR111 and HOR222, both with a grade of C or better; or consent of instructor. **Offered as needed**

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
1 class and 4 lab hr/wk, 3 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
1 class and 4 lab hr/wk, 3 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
1 class and 4 lab hr/wk, 3 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**

HOR229 Phytotechnology Landscape Practicum
6 lab hr/wk, 3 cr.
Applies technical skills for maintaining or creating phytotechnology features in the campus landscape, including pruning, weed management, drainage and erosion control, and restoration. Provides practical experience with existing or new features, such as stormwater detention facilities, rain gardens, medicinal gardens, bioswales, floating island research, and campus wooded areas. Includes development of maintenance schedules; assessment of need and costs for new features; assistance with site assessment or construction; and training for leading tours. **Prerequisite:** HOR116, HOR268, and BI153; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) **Offered as needed**

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. Sp

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

HOR254 Wetland Plant Identification
1 class and 4 lab hr/wk, 3 cr.
Defines wetlands and compares/contrasts them to wet landscape features. Demonstrates plant adaptations for wet environments. Utilizes frequent field trips to identify wetland plants including trees and shrubs, herbaceous and emergent, aquatic, and ornamental water garden. Distinguishes native wetland plants from invasive species. Develops plant suggestions for various functional landscape applications. Sp

HOR255 Identification of Herbaceous Plants 1
1 class and 4 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. Sp

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

HOR259 Marketing Plant Ecological Services
2 class hr/wk, 2 cr.
Portrays the ecosystem services that plants provide in managed landscapes. Explores current work being done to quantify these services for economic valuation. Discusses the challenges and benefits of putting a price tag on ecological services. Conveys the current national and local status of ecosystem service market establishment. Examines methods used in wholesale/retail to market the functional (as opposed to aesthetic) qualities of plants. Contrasts functional marketing strategies with conventional horticulture marketing. Prerequisite: HOR116 with a grade of C or better; or consent of instructor. Offered as needed

HOR260 Soils, Media, and Nutrition
3 class and 2 lab hr/wk, 4 cr.
Introduces physical, chemical and biological properties of soils and soilless media. Covers essential plant nutrients, fertilizers and fertilization practices. Discusses soil/water relationships and soil conservation and improvement. Assesses Willamette Valley soils for nursery crop production. W

HOR267 Green Roof/Living Wall Design and Management
3 class and 2 lab hr/wk, 4 cr.
Introduces the uses, functions, benefits, and components of green roofs and living walls, with emphasis on their role in a comprehensive and sustainable urban stormwater management plan. Reviews the use of plants to treat water quality and quantity, sequester carbon, insulate buildings, and provide habitat. Examines technical criteria and skills needed to design and construct greenroofs and living walls. Includes planting of a demonstration greenroof and living wall. Evaluates plant growth and management requirements for functional performance in these systems. Prerequisite: HOR116 and BI153, both with a grade of C or better; or consent of instructor. Sp

HOR268 Urban Stormwater Treatment and Systems Design
3 class and 2 lab hr/wk, 4 cr.
Focuses on how to use the environmental services plants provide to treat and manage stormwater in urban settings. Analyzes the environmental challenges and stresses present in urban landscapes. Examines technical criteria for site evaluation, design, and construction of rain gardens, green streets, bioswales, stormwater detention features, and other engineered green space. Evaluates plant propagation, growth and management requirements for functional performance in these systems. Reviews the role of plants, horticulture, and integrated landscapes in urban sustainability. Prerequisite: HOR116 and BI153 both with a grade of C or better; or consent of instructor. W

HOR269 Plant Selection for Phytotechnology
3 class hr/wk, 3 cr.
Develops functional criteria for plant selection for phytotechnology projects. Investigates the debate among native and non-native plant supporters. Explores uses of native and non-native plants in both natural and constructed environments for low impact landscaping, habitat restoration, and ecosystem services. Compares and contrasts ecosystem services provided by native and non-native plants. Discusses physiological characteristics, history, impacts, and alternative uses of invasive plant species. Analyzes current and future market opportunities for native and non-native plants. Discusses physiological characteristics, history, impacts, and alternative uses of invasive plant species. Analyzes current and future market opportunities for native and non-native plants. Prerequisite: HOR116 and BI153, both with a grade of C or better; or consent of instructor. Sp. 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
HOR274 Wetlands Design and Management
3 class and 2 lab hr/wk, 4 cr.
Describes wetland types and compares native and constructed wetlands. Explores wetland functions and benefits to the environment and economy. Introduces the wetland construction permitting process. Evaluates design criteria for newly constructed wetlands, including plant propagation and selection. Reviews landscape management challenges with wetlands and strategies for achieving multiple goals. Presents wetland case studies. 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 hr/wk, 2 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. Analyzes sustainability of practices in preparation for the design of a garden or landscape. Sp

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. Offered as needed

HOR278 Ecological Problem Solving
3 class and 2 lab hr/wk, 4 cr.

HOR279 Edible Crops in Urban Landscapes
2 class hr/wk, 2 cr.
Demonstrates how to grow a diverse variety of edible crops in any landscape, making use of small spaces and limited resources. Utilizes sustainable horticultural and ecological practices to manage soil health, weed, and pest control. Adapts permaculture concepts to spaces with unique challenges. Emphasizes full-circle recycling of resources, using the waste output from one process to feed the input of another process. Designs edible landscapes to provide as many integrated functions as possible, including water management, nutrient cycling, pollinator support, and temperature mitigation. Sp

HOR280B-L Cooperative Work Experience
See CWE–Cooperative Work Experience.

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. 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: HPE184 with a grade of C or better; or consent of instructor. Sp

HPE295 Health and Fitness for Life
3 class hr/wk, 3 cr.
Focuses on behavior skills to improve lifelong fitness and wellness. Provide an understanding of levels of health and fitness. 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. F, W, Sp
HS103 Ethics for Human Service and Non-Traditional Health Workers
2 class hr/wk, 2 cr.
Introduces professional issues associated with the helping relationship. Examines how personal characteristics and values affect the helping relationship and considers the issues faced by helpers-in-training. Explores the issues of client rights, confidentiality, competence and dual relationships. Emphasizes development of an intercultural helping perspective. Prerequisite: HS150 with a grade of C or better for Human Services degree students; 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 Alzheimers 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 Chemical Dependency Treatment
2 class hr/wk, 2 cr.
 Explores the historical, sociological and physiological implications for women and chemical dependency. Offered as needed

HS129 Understanding Grief, Loss, and Transition
3 class hr/wk, 3 cr.
 Explores individual attitudes towards death, dying, and personal loss(es) and related values clarification. Includes practical assessment and intervention strategies for working with individuals who are either dying and/or are experiencing loss. Covers specific therapeutic tools used by professionals in addressing grief and mourning. Offers an overview of individual issues related to loss such as rituals, near death experiences, end of life planning, personal responses related to suicide, out of sequence losses, and medical issues (practical and ethical). F, W, Sp

HS140 Handling the Violent Client
1 class hr/wk, 1 cr.
Introduces the recognition, prevention, and control of aggressive behavior in clients. Stresses prevention of violence through early intervention and includes information on pre-aggression warning signs, as well as practice with defusing behavior and physical defense responses. W, Su

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. Sp

HS150 Personal Effectiveness for Human Service and Non-Traditional Health Workers
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. Recommended: Concurrent enrollment in HS154 and HS170 for Human Services program students. 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 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

HS154 Community Resources and Advocacy
3 class hr/wk, 3 cr.
Develops an understanding of the history and values of community resources designed to meet the needs of vulnerable populations. Familiarizes students with local social service agencies/organizations; provides information about making appropriate referrals for services. Introduces application of basic research techniques. Recommended: Concurrent enrollment in HS150 and HS170 for Human Services program students. F, W

HS155 Wellness Coaching, Interviewing, and Advocacy
3 class hr/wk, 3 cr.
First of a two-course sequence for students in the Human Services degree programs and the Addiction Counselor Certificate program. Students in the Non-Traditional Health Workers Certificate take this course in term three. Provides the theory and specific techniques required for entry-level advocacy, coaching and interviewing in human service and non-traditional health worker settings. Prerequisite: HS150, HS154, and HS170; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W, Sp

HS156 Counseling Theories, Practice, and Crisis Management
3 class hr/wk, 3 cr.
Introduces the major counseling theories 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

HS158 Trauma Informed Theory, Practice, and Crisis Management
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 retraumatization 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. Sp

HS165 Activity Director Training: Long-Term Care
3 class hr/wk, 3 cr.
Meets the training requirements of activity directors in long-term care facilities. Focuses on therapeutic activities and appropriate use of people and material resources in meeting patient needs. Promotes the continual growth and development of long-term care residents. Offered as needed

HS170 Introduction to Practicum
3 class hr/wk, 3 cr.
Provides the background and specific skills needed to select and succeed in the practicum placement. Serves as a prerequisite for Human Services practicum courses (HS284A, S-HS288A, S). Recommended: Concurrent enrollment in HS150 and HS154 for Human Services program students. F, W
HS171 Non-Traditional Health Workers  
5 class hr/wk, 5 cr.  
Designed to meet most of the training requirements necessary to work in non-traditional health care roles such as peer wellness/support, health system navigation, and community health. Focuses on the areas of outreach and mobilization, community and cultural liaising, case management, care coordination, system navigation, and health promotion and coaching. F

HS201 Addiction and the Family System  
3 class hr/wk, 3 cr.  
Prerequisite: HS101 with a grade of C or better; or consent of instructor. Sp

HS205 Youth Addiction  
3 class hr/wk, 3 cr.  
Prerequisite: HS101 with a grade of C or better; or consent of instructor. Of offered as needed

HS206 The Addicted Criminal  
3 class hr/wk, 3 cr.  
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.  
Prerequisite: HS101 with a grade of C or better; or consent of instructor. Offered as needed

HS209 Co-occurring Disorders  
2 class hr/wk, 2 cr.  
Prerequisite: HS101; and HS266 or HS216; or consent of instructor (All prerequisites must be completed with a grade of C or better.) Sp

HS211 HIV, TB, and Infectious Diseases: Risk Assessment, Harm Reduction, and Counseling  
1 class hr/wk, 1 cr.  
Prerequisite: HS101 with a grade of C or better; or consent of instructor. Su

HS213 Multicultural Practice  
3 class hr/wk, 3 cr.  
Prerequisite:HS201 with a grade of C or better; or consent of instructor. W

HS214 Advanced Interviewing and Counseling Skills  
3 class hr/wk, 3 cr.  
Prerequisite: HS214 with a grade of C or better; or consent of instructor. W

HS215 Conflict Resolution  
3 class hr/wk, 3 cr.  
Prerequisite: HS150 with a grade of C or better; or consent of instructor. F

HS216 Clinical Screening, Assessment, and Treatment Planning  
3 class hr/wk, 3 cr.  
Prerequisite: HS212 with a grade of C or better; or consent of instructor. W

HS217 Group Counseling Skills  
3 class hr/wk, 3 cr.  
Prerequisite: HS155 and HS260, both with a grade of C or better; or consent of instructor. W

HS218A Group Processes A  
1 class hr/wk, 1 cr.  
Prerequisite: HS214 with a grade of C or better; or consent of instructor. F

HS218B Group Processes B  
1 class hr/wk, 1 cr.  
Prerequisite: HS214 with a grade of C or better; or consent of instructor. F

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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 HS218 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. Prerequisite: HS150, HS154, and HS170; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better). Sp

HS223 Aging: Theory and Practice
3 class hr/wk, 3 cr.
Introduces the field of social 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, 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

HS260 Group Dynamics
3 class hr/wk, 3 cr.
Provides students with the theory and experience to work as effective members of small task groups. Defines and studies role 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: HS150 with a grade of C or better; or consent of instructor. W, Sp

HS262 Misuse and Abuse of Alcohol and Drugs among the Elderly
1 class hr/wk, 1 cr.
Addresses problems of drug and alcohol misuse and abuse among older adults. Focuses on prescription drugs, over-the-counter drugs, and alcohol used either alone or in combination. Prerequisite: HS101 with a grade of C or better; or consent of instructor. Offered as needed

HS265 Casework Interviewing
3 class hr/wk, 3 cr.
Provides training in the casework interviewing skills needed for culturally sensitive human services work. Includes advanced interviewing skills, a strength-based assessment process. Prerequisite: HS155 with a grade of C or better; or consent of instructor. F

HS266 Case Management, Care Coordination, and Systems Navigation
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. W

HS284-288A, N, S Practicum-Human Services and Non-Traditional Health Workers
11-23 lab hr/wk, 4-8 cr.
Provides experience working on-site in a human service agency to integrate field and classroom experiences. Offers Human Services students two different practicum sites, each at least two terms in length, during the two years. The second-year practicum is more comprehensive and provides additional opportunities to develop more advanced skills. Students in the post-baccalaureate Addiction Counselor Certification option remain at one site for three terms. Students in the Non-Traditional Health Workers option have a one-term capstone in their third term in the program. Prerequisite: HS150 and HS170, both with a grade of C or better for Human Services degree students; or consent of instructor. F, W, Sp

HST History

HST104, 105, 106 History of World Civilization
4 class hr/wk, 4 cr. each
Surveys human cultural, social, economic, intellectual, and political development of world civilizations HST104: 3500 B.C. to 1450. HST105: 1450 C.E. to 1870. HST106: 1870 to the present. Prerequisite: Placement into RD115; or RD090 with a grade of C or better or concurrent enrollment; or consent of instructor. F, W, Sp

HST157 History of the Middle East and North Africa
3 class hr/wk, 3 cr.
Surveys human cultural, social, economic and political developments in the Middle East and North Africa. Prerequisite: Placement into RD115; or RD090 with a grade of C or better or concurrent enrollment; or consent of instructor. Offered as needed
HST258 African American History
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 RD115; or RD090 with a grade of C or better or concurrent enrollment; or consent of instructor. W, Sp; CL

HST262 Women in U.S. History
4 class hr/wk, 4 cr.
Studies the transformation of the role of women in American society. Prerequisite: Placement into RD115; or RD090 with a grade of C or better or concurrent enrollment; or consent of instructor. W, Sp, Su; CL

HST269 Pacific Northwest History
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 RD115; or RD090 with a grade of C or better or concurrent enrollment; or consent of instructor. W, Sp; CL

HST270 History of Latin America
4 class hr/wk, 4 cr.
Surveys Latin American history, encompassing the political theory, class structure and economic organization, culture, and religion from pre-Colombian times to the present. Prerequisite: Placement into RD115; or RD090 with a grade of C or better or concurrent enrollment; or consent of instructor. Offered as needed

HST279 Soviet and Contemporary Russia
4 class hr/wk, 4 cr.
Surveys and analyzes human cultural, social, economic, and political developments of Soviet and Contemporary Russia. Covers 1917 to the present. Prerequisite: Placement into RD115; or RD090 with a grade of C or better, or concurrent enrollment; or consent of instructor. Offered as needed

HTM Hospitality and Tourism Management
(All courses in this section are offered online.)

HTM100 Hospitality and Tourism Industry
3 class hr/wk, 3 cr.
Introduces the hospitality and tourism industry as a single, interrelated industry composed of food and beverage; travel and tourism; lodging, meeting, and planning; leisure and recreation; recreational entertainment; and eco and heritage tourism. Includes industry components, their current issues, and future trends. Examines the impact of North America's changing demographics and lifestyles. Discusses economic impact, career opportunities, and service ethics. F, W, Sp

HTM103 Service Marketing Fundamentals
3 class hr/wk, 3 cr.
Studies how marketing activities direct the flow of goods and services from product to consumer in the hospitality and tourism industry. Covers satisfaction of customer's needs and wants, nature of marketing, sequential steps in marketing, key role of marketing research, interdependence of hospitality and travel organizations, and organization-wide and multi department efforts. Analyzes various industry marketing strategies. W

HTM105 Food and Beverage Industry
3 class hr/wk, 3 cr.
Covers the food service industry including its structure, organization, size, economic impact, regulatory industries and peripheral industries. Explores managerial problems and practices, trade journals, and resources. Reviews food service segments. Discusses current industry operational topics. W

HTM107 Hospitality Cost Control
3 class hr/wk, 3 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. W, Sp

HTM109 Front Desk Operations
3 class hr/wk, 3 cr.
Focuses on specific functions of front desk operations at a hotel, motel or resort. Covers front desk functions including reservations, registration, room and rate assignment, guest services, room status, maintenance and settlement of guest accounts, and creation of guest history records. Discusses development and maintenance of databases of guest information, coordination of guest services, and ensuring guest satisfaction. W

HTM114 Travel Destination Geography
3 class hr/wk, 3 cr.
Focuses on the geographical areas of North, Central and South America. Provides in-depth geographical, political and cultural information on the countries emphasized. F

HTM115 Travel Destination Geography 2
3 class hr/wk, 3 cr.
Focuses on the geography of Europe with emphasis on the United Kingdom and Ireland. Provides in-depth geographical, political, and cultural data on the countries emphasized. W

HTM116 Travel Destination Geography 3
3 class hr/wk, 3 cr.
Focuses on the geography of Africa, the Middle East, India, and the South Pacific. Provides in-depth geographical, political, and cultural data on the countries emphasized. Sp

HTM125 Special Events Planning
3 class hr/wk, 3 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. F, Sp

HTM130 Beverages
3 class hr/wk, 3 cr.
Provides a comprehensive study of alcoholic and non-alcoholic beverages as they pertain to the hospitality industry. Discusses customer demographic shifts and beverage trends and the importance of responsible alcohol beverage service. Covers wine and beer appreciation, including regional differences, production methods, and upscale product features of distillates. Incorporates beverage mixology, marketing, and profit management. F, Sp

HTM131 Customer Service Management 1
3 class hr/wk, 3 cr.
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. F, W, Sp

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HTM143 Computer Reservation Systems 1 3 class hr/wk, 3 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. W

HTM201 Customer Service Management 2 3 class hr/wk, 3 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. Includes combined discussions of management theory, systems, decision-making, and leadership directly relevant to any profession with emphasis on the hospitality industry. Also covers the business facets of human resource management, finance, ethics, and Total Quality Management within a business environment. Recommended: HTM131 with a grade of C or better, or consent of instructor. W

HTM203 Service Marketing: Promotion and Advertising 3 class hr/wk, 3 cr.  
Assumes a basic understanding of 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. Includes designing a marketing plan as a final project. Recommended: HTM103 with a grade of C or better; or consent of instructor. Sp

HTM206 Resort Management 3 class hr/wk, 3 cr.  
Explores the exciting and challenging world of the resort industry. Discusses scope of the industry along with the various adjunct industries concerning the successful marketing, management, and development of a resort. W

HTM207 Gourmet Culture 3 class hr/wk, 3 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. Explores creating marketable culinary experiences. Uses multiple media sources to deliver the content. W

HTM208 Attractions and Entertainment 3 class hr/wk, 3 cr.  
Examines major components of the attractions and entertainment industries in tourism. Explores leisure tourism from the perspective of both the tourist and the provider. Focuses on three categories: heritage attractions, commercial attractions, and live entertainment. Covers staff, structures, marketing, and successful financial management techniques. F, Sp

HTM223 Computer Reservation Systems 2 3 class hr/wk, 3 cr.  
Surveys travel computer reservation systems (CRS), including APOLO, SABRE, WORLDSPAN, and PARS. Includes use of reservation system simulations to identify flights, auto rentals, lodging and associated travel information. Emphasizes problem solving in the workplace. Recommended Prerequisite: HTM143 with a grade of C or better. Sp

HTM224 Catering Operations 3 class hr/wk, 3 cr.  
Studies on-premise catering facilities including operations, sales, and relationships with outside vendors and related departments and industries. Emphasizes logistical operations and seeking and servicing various market segments. Recommended: HTM105 with a grade of C or better; or second-year standing in Hospitality Management or Tourism and Travel Management program. F

HTM226 Event Management 3 class hr/wk, 3 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. Prerequisite/ Corequisite: HTM127 with a grade of C or better. F, Sp

HTM230 Hotel, Restaurant and Travel Law 3 class hr/wk, 3 cr.  
Covers legal aspects of the hospitality and tourism industry. Utilizes critical thinking skills needed to communicate with attorneys and recognize ramifications of policies and practices in everyday operations. Discusses current legal situations, case studies, and the reasoning behind the course of action taken. Also covers the Disabilities Act, sexual discrimination, civil rights issues, basic court procedures, contract law negligence, guest relationship obligations, alcohol liability, travel agent relationships, and licensing and regulations. Prerequisite: Second-year standing in Hospitality Management or Tourism and Travel Management program. Sp

HTM232 Menu Design 3 class hr/wk, 3 cr.  
Covers principles of planning a menu from concept development and design mechanics to menu pricing and marketing issues. Addresses current foodservice industry needs, including operations, sanitation, and nutrition concerns, design mechanics, and increasing sales through the menu. Recommended: HTM105 with a grade of C or better; or second-year standing in Hospitality Management. F, Sp

HTM233 Strategies in Tourism and Destination Marketing 3 class hr/wk, 3 cr.  
Provides an overview of long-range strategic issues in community-based tourism. Focuses on strengths, weaknesses, opportunities, and threats in the international tourism industry. Discusses the role of destination management organizations in areas of strategic planning, marketing, product development, and community visioning. Explores concept of Destination Team and impact on participants and funding mechanisms. Sp

HTM235 Leadership in Tourism 3 class hr/wk, 3 cr.  
Emphasizes the information, tools, and techniques to provide strategic human resource and fiscal leadership for destination management organizations (DMOs). Focuses on developing work teams and creation of information and financial management systems. Discusses leadership styles for diverse stakeholder groups such as volunteers, paid staff, elected officials, and community leaders. W

HTM236 Tour Operations 3 class hr/wk, 3 cr.  
Covers basic tour management concepts and principles. Provides understanding of relationships of group travel to tourism industry, including economic, geographic, technological, political, and social forces. Examines the specific knowledge and skills required by tour operators, suppliers and representatives of destination marketing organizations. Analyzes industry distribution channels and packaging strategies. F

HTM237 Tourism Transportation 3 class hr/wk, 3 cr.  
Provides understanding of relationships between the transportation and tourism industries. Defines tourism transportation systems incorporating traveler needs into management and planning. Examines key issues which transport providers, decision makers, managers and tourists face in the use, operation and management of tourist transportation. W
HTM244 Practicum 1: Hospitality and Tourism Management
1 class and 9 lab hr/wk, 4 cr.
Provides on-site experience in a hospitality or tourism industry setting integrating field and classroom experience related to meeting program outcomes and individual student career goals. Prerequisites: Third-term standing in Hospitality Management or Tourism and Travel Management certificate or fifth term standing in Hospitality Management or Tourism and Travel Management degree with a grade of C or better in each of the required HTM courses, or consent of instructor or program advisor. Sp, Su

HTM280B-L Cooperative Work Experience
See CWE-Cooperative Work Experience

HTM290 Operations Management
3 class hr/wk, 3 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. Prerequisite: Second-year standing in Hospitality Management or Tourism and Travel Management program. Sp

HUM

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. 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). 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 dawning 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. 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. Offered as needed; CL

JNL

Journalism

JNL215 Publications Lab
4 lab hr/wk, 2 cr.
Applies reporting, photojournalism and production principles through work on the student newspaper. Course may be repeated for a maximum of 12 credits. F, W, Sp

JNL216 Newswriting
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. F

JNL217 Feature Writing
3 class hr/wk, 3 cr.
Emphasizes feature, in-depth, and investigative reporting beyond gathering and processing of news. Requires presenting material for possible publication in the student newspaper. W

JNL224 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 others. F, Sp

JNL225 Advertising and Public Relations
3 class hr/wk, 3 cr.
Introduces the communications and production aspects of advertising and public relations. Combines criticism and analysis with assignments in copy writing, design, and marketing strategy. Provides hands-on experience through work on the weekly student newspaper. W

JNL226 Editing and Design
3 class hr/wk, 3 cr.
Provides a working example of newspaper management in relation to editing, production, and design procedures. Includes various printing processes, typography, page design, style, photo editing, and headline writing. Provides opportunity to obtain hands-on experience through work on the weekly student newspaper. Sp

JNL227 Media Ethics
3 class hr/wk, 3 cr.
Introduces media ethics, with emphasis on the First Amendment. Covers its philosophical framework, corporate social responsibility, the legal system, the changing face of the modern media, editors and readers in the debate process, and issues of taste versus responsibility. Examines important dilemmas confronting print and broadcast journalists, with current examples of situations that are facing legal challenges to the system by the courts. Includes shifting standards of the public at large. Recommended for journalism majors; open to others. W

JNL228 Media and Motion Pictures
3 class hr/wk, 3 cr.
Examines significant historical events, the media coverage generated at the time, and eventual film depiction. Emphasizes individuals or issues that have changed laws, conventions, mores, rules, life in general, and especially the way the media operates, ranging from McCarthyism to Watergate, the Cold War to presidential politics. Evaluates legal and ethical dilemmas. Recommended for journalism majors; open to others. F, Sp
JPN

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. **Prerequisite:** These courses are to be taken sequentially. JPN101: None. JPN102: JPN101 with a grade of C or better; or one year of high school Japanese; or consent of instructor. JPN103: JPN102 with a grade of C or better; or two years of high school Japanese; or consent of instructor. JPN101, F; JPN102, W; JPN103, Sp

JPN120 Introduction to Japanese Prosody
3 class hr/wk, 3 cr.
Prepares the segmentation and pitch accent patterns of Japanese words from a linguistics perspective. Compares Japanese patterns to those of other languages, particularly English. **Prerequisite:** JPN103 with a grade of C or better, or concurrent enrollment; or consent of instructor. **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. **Prerequisite:** These courses are to be taken sequentially. JPN201: JPN103 with a grade of C or better; or three years of high school Japanese; or consent of instructor. JPN202: JPN201 with a grade of C or better; or consent of instructor. JPN203: JPN202 with a grade of C or better; or consent of instructor. JPN201, F; JPN202, W; JPN203, Sp

Job Search
See FE—Field Experience

Literature
See ENG—English

Management
See BA—Business Administration

Mechanical Design
See DRF—Drafting Technology

MED

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 setting. **Prerequisite:** Admission limited to students accepted through an application process to the Medical Assisting program. 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:** MED124 with a grade of C or better. 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, clinical- and work-practice skills. **Prerequisite:** MED125 with a grade of C or better. 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. **Corequisite:** MED130. Sp

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:** MED131 with a grade of C or better. Su

MT

Industrial

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**

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**

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 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.
Provides 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

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 hydraulic and pneumatic systems. Includes diagnosis, service, maintenance repair of pneumatic components and systems. Prerequisite: MTH070 with a grade of C or better; 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, both 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

MT281 Process Control Practicum 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 Technology 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

MT282 Process Control Practicum 2
6 lab hr/wk, 2 cr.
Provides related on-the-job experience with area employers, under instructional oversight. Utilizes supervised industrial experience to develop intermediate process control procedures, including equipment maintenance, standardization, limited calibration, and process management at local industry partners. Prerequisite: MT281 with a grade of C or better; or consent of instructor. Offered as needed

MT283 Process Control Practicum 3
1 class and 9 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

MTH

Mathematics

MTH020 Basic Mathematics
4 class hr/wk, 4 cr.
Includes fundamentals of addition, subtraction, multiplication, and division in problems involving whole numbers, fractions, decimals, ratios, percentages, and geometric measurements and formulas. Emphasizes analysis and solution of application problems. F, W, Sp, Su

MTH052 Introduction to Algebra and 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 MTH020 with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. F, W, Sp, Su
MTH053 Introduction to Trigonometry with 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 MTH020 with a grade of C or better, 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 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 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.
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 figures. Offers an individualized course that may be started and completed at 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.
Covers definitions of the 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. 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 obtuse angles, law of sines, law of cosines, vectors and radian measure. Includes applied problems involving these concepts. Offers an individualized course that may be started and completed at any time during the term. Prerequisite: MTH078 with a grade of C or better, or equivalent course 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. F, W

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. W, Sp

MTH095 Intermediate Algebra
4 class hr/wk, 4 cr.
Introduces the study of functions with emphasis on power, linear, quadratic, exponential, and rational functions. Solves equations using a variety of methods, including logarithms. Prerequisite: Placement into MTH095; or MTH070 with a grade of C or better, or equivalent as determined by instructor; or consent of instructor. F, W, Sp, Su

MTH105 Introduction to Contemporary Mathematics
4 class hr/wk, 4 cr.
Surveys the application of mathematics as a problem-solving tool in the real world. Includes business, consumer, ecology, and city planning applications using probability, statistics, geometry, graph theory, linear programming and game theory. Prerequisite: Placement into MTH105; or MTH095 with a grade of C or better, or equivalent as determined by instructor; or consent of instructor. F, W, Sp, 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 MTH111 or higher; or MTH095 or higher with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. 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 MTH112; or MTH111 with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. F, W, Sp, Su

MTH211 Foundations of Elementary Mathematics
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 MTH111 or higher; or MTH095 or higher with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. F, W, Sp, Su
MTH212 Foundations of Elementary Mathematics
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: MTH211 or higher with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. W

MTH213 Foundations of Elementary Mathematics
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: MTH212 or higher with a grade of C or better; or equivalent course as determined by instructor; or consent of instructor. Su

MTH231 Discrete Mathematics
4 class hr/wk, 4 cr.
Introduces logic, sets, functions, algorithms, matrices, graph theory, and trees, with applications. Offers the first course for computer science and mathematics majors. Prerequisite: Placement into MTH212 or higher; or MTH111 or higher with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. Offered as needed.

MTH232 Discrete Mathematics
4 class hr/wk, 4 cr.
Applies fundamentals from MTH231 to tree theory, advanced counting techniques, relations and Boolean algebra. Offers a second course for computer science and mathematics majors. Prerequisite: MTH231 or higher with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. 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 MTH241 or higher; or MTH111 or higher with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. 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 MTH243 or higher; or MTH111 or higher with a grade of C or better; or equivalent course as determined by instructor; or consent of instructor. 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: MTH243 or higher with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. 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 MTH251 or higher; or MTH112 or higher with a grade of C or better, or equivalent course as determined by instructor; or consent of instructor. F, W, Sp, Su

MTH252 Integral Calculus
5 class hr/wk, 5 cr.
Covers integration techniques, including indefinite integrals, definite integrals, substitution, integration by parts, and partial fractions. Prerequisite: MTH251 or higher with a grade of C or better; or equivalent course as determined by instructor; or consent of instructor. 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: MTH252 or higher with a grade of C or better; or equivalent course as determined by instructor; or consent of instructor. F, 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: MTH253 or higher with a grade of C or better; or consent of instructor. 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: MTH254 or higher with a grade of C or better; or equivalent course as determined by instructor; or consent of instructor. 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: MTH254 or higher with a grade of C or better; or equivalent course as determined by instructor; or consent of instructor. Sp

MUS

Music

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. Offered as needed

MUS111 Introduction to Music Theory
3 class and 2 lab hr/wk, 4 cr.
Introduces Western European music practices, including fundamentals of music notation, terminology, analysis, sight-reading, and listening. Covers clefs, intervals, scales, modes, circle of fifths, triads and more. Emphasizes terminology and basic musical concepts. F

MUS112 Music Theory 1
3 class and 2 lab hr/wk, 4 cr.
Focuses on the detailed exploration of Western European music practices, including music notation, terminology, analysis, sight-reading, 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: MUS111 with a grade of C or better; or consent of instructor. W
MUS113 Music Theory 2
3 class and 2 lab hr/wk, 4 cr.
Continues detailed exploration of Western European music practices, including music notation, terminology, analysis, sight-singing, aural dictation, four-part writing, and aural analysis. Covers advanced musical practices including figured bass realization, harmonic progressions, modulation, cadences, transposition, and Twelve-tone Theory. Emphasizes advanced terminology and compositional concepts. Prerequisite: MUS112 with a grade of C or better within the year; or consent of instructor. Sp

MUS161 Music Appreciation
3 class hr/wk, 3 cr.
Highlights 17th to 20th century instrumental and vocal music and the growth of the orchestra. Covers acknowledged masters such as Mozart, Haydn, and Beethoven. Offered as needed

MUS197 Chorus
4 lab hr/wk, 2 cr.
Offers singing in a choral ensemble, in a mixed voice (soprano, alto, tenor, bass) chorus. Includes proper singing habits, basic musical terms and expressions, rehearsal techniques procedures, and exposure to a wide variety of music literature, culminating in a final performance. Course may be repeated for a maximum of 8 credits. Recommended: Previous experience singing with a school, civic, or church choir. Prerequisite: Consent of instructor. F, W, Sp

MUS201 Introduction to Music Literature
3 class hr/wk, 3 cr.
Focuses on the music of the 17th and 18th centuries, including early vocal music, the origins of opera and sacred music, and the early instrumental forms of music that led to the classical symphony of Haydn, Mozart, and Beethoven. F

MUS202 Music History 1: Medieval to Classical
3 class hr/wk, 3 cr.
Focuses on the elements of music, musical instruments and ensembles, significant composers and their works, and the development of heightened listening skills from the Medieval Era through the Classical Era (c. 476 C.E. to 1825 C.E.). W

MUS203 Music History 2: Romantic to Present Day
3 class hr/wk, 3 cr.
Focuses on the elements of music, musical instruments and ensembles, significant composers and their works, and the development of heightened listening skills from the Romantic Era through the present (1825 C.E. to present). Sp

NET

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 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 (EIGRP) and Open Shortest Path First (OSPF) 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

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 (VoIP) and Quality of Service (QoS) concepts as they apply to the Cisco CallManager Express (CME) environment. Offered as needed

NFM

Nutrition and Food Management

NFM215 Nutrition for Foodservice and Culinary Professionals
3 class hr/wk, 3 cr.
Focuses on nutrition as it relates to foodservice or culinary professionals. Explores the potential issues and hot topics behind dietary concerns of restaurant patrons. Emphasizes food and recipe composition. Applies nutrition concepts to creative menu planning designed to meet dietary needs. Offered as needed

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. F, W, Sp, Su

NFM240 Nutrition in the Lifecycle
3 class hr/wk, 3 cr.
Covers the sources and utilization of nutrients to promote optimum health during each stage of life, from infancy to older age. Emphasizes nutritional concerns, health issues and metabolic disorders. Summarizes appropriate food selections. Prerequisite: NFM225 with a grade of C or better; or consent of instructor. Offered as needed
NUR Nursing

NUR106 Fundamentals of Nursing
5 class and 12 lab hr/wk, 9 cr.
Provides practical application and hands-on learning for basic nursing skills, including hygiene skills, transmission-based and standard precautions, moving and positioning, transferring, administering intramuscular injections (IMs), patient assessment, vital signs, specimens, and medication administration. Corequisite: NUR106. F

NUR106A Skills Applications for NUR106
3 lab hr/wk, 1 cr.
Provides practical application and hands-on learning for basic nursing skills, including hygiene skills, transmission-based and standard precautions, moving and positioning, transferring, administering intramuscular injections (IMs), patient assessment, vital signs, specimens, and medication administration. Corequisite: NUR106. F

NUR108 Care of Acutely Ill Patients and Developing Families 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. Theoretical concepts focus on the care of individual patients with health problems related to the respiratory, cardiovascular, endocrine, musculoskeletal, and neurological systems. Includes pathophysiological effects, such as fluid and electrolyte imbalances and pain, and treatment modalities, such as pharmacology and surgery, associated with these health problems. Also provides opportunities to learn concepts related to maternal-child and the care of developing families. Corequisite: BI233 and PSY237. Corequisites may be completed prior to enrollment in NUR108. Prerequisite: NUR106 with a grade of C or better. W

NUR108A Skills Applications for NUR108
3 lab hr/wk, 1 cr.
Provides practical application and hands-on learning for nursing skills, including enteral nutrition; subcutaneous injections; sterile gloving; changing intravenous (IV) bags and tubing; sterile dressing changes; urinary catheterization; and medication administration. Corequisite: NUR108. W

NUR109 Care of Acutely Ill Patients and Developing Families 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. Theoretical concepts focus on the care of patients with health problems related to the neurological, hematological, gastrointestinal, and genitourinary systems, as well as conditions related to cancer, mental health, infectious diseases, and perinatal complications. Corequisite: BI234 and WR121. Corequisites may be completed prior to enrollment in NUR109. Prerequisite: NUR108 with a grade of C or better. Sp

NUR109A Skills Applications for NUR109
3 lab hr/wk, 1 cr.
Provides practical application and hands-on learning for nursing skills, including previously learned skills, wound care, nasogastric tube insertion and removal, suctioning, and tracheostomy care, and introduction to the Patient Control Analgesia (PCA). Corequisite: NUR109. Sp

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 Care of Patients with 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. Corequisite: CIS101. Corequisite may be completed prior to enrollment in NUR206. Prerequisite: NUR109 with a grade of C or better; or consent of instructor. Clinical: Registration must be completed and TB test results and proof of current immunizations submitted before a student is permitted in the clinical area. Current Healthcare Provider of Professional Rescuer CPR certification is also required. F

NUR208 Crisis 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 that are necessary to implement the roles of an associate degree registered nurse in providing care in a variety of settings. Theoretical concepts focus 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. Corequisite: Social science and sociology electives. Corequisites may be completed prior to enrollment in NUR208. Prerequisite: NUR206 with a grade of C or better. W

NUR209 Preparation for 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. Corequisite: Humanities/Fine Arts/Communication elective; and general education elective. Corequisites may be completed prior to enrollment in NUR209. Prerequisite: NUR208 with a grade of C or better. 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 (LTC) settings. Gains knowledge and skills to successfully prepare for the responsibilities to work as a beginning LPN or RN in this setting. Corequisite/Corequisites: NUR109 with a grade of C or better; or current licensure as an LPN or RN; or consent of instructor. Sp

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 with a grade of C or better. Sp

NUR280B-L Cooperative Work Experience
See CWE–Cooperative Work Experience
Oceanography
OC133 Introduction to Oceanography
3 class hr/wk, 3 cr.
Discuss four main areas of oceanography: chemical, physical, geological and biological. Covers plate tectonics, ocean circulation, physical properties of seawater, chemical cycles, marine ecosystems, sedimentation, land and sea cycles, and climate effects. Offered as needed

Photography
See ART–Art, VC–Visual Communications

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 plyometrics, 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

PE185BJ, BK, BL Basketball–Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Emphasizes fundamental skills, team play and a knowledge of the sport. F, W, Sp

PE185BS, BT Body Building, Beginning, Intermediate
3 lab hr/wk, 1 cr. each
Focuses on developing a strength and body building program to fit individual needs. Offered as needed

PE185BV, BW, BX Bowling–Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Familiarizes students with the fundamentals, rules, and etiquette of bowling. Also develops specific skills necessary for successful recreation or lifetime sports activity. F, W, Sp, Su

PE185CA, CB, CC Conditioning–Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Offers a conditioning program designed to complement individual interests, needs, and goals. May improve some or all of the areas of physical fitness: cardiovascular, muscular, body composition, and flexibility. F, W, Sp, Su

PE185CM, CN Cross Country Skiing–Beginning, Intermediate
3 lab hr/wk, 1 cr. each
Provides instruction in cross country skiing on tracked and untracked terrain. W

PE185CW, CX, CY Cycling, Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Focuses on maintaining or improving fitness through participation in a regular schedule of bicycle riding. Examines cycling techniques, basic bicycle maintenance, and safety factors. F, W, Sp, Su

PE185DA, DB, DC Aerobics-Low Impact–Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Studies how to obtain cardiovascular, strength, and flexibility benefits. Class activities may include: power aerobics, step aerobics, jazz aerobics, line dancing, yoga aerobics, hi/lo aerobics, step/sculpt/box, and kickboxing. F, W, Sp, Su

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

PE185FD, FE, FF 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

PE185GJ, GK, GL Golf–Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Offers training for the beginner to advanced golfer. Emphasizes the development of basic swing fundamentals. Covers proper golf etiquette, rules, and playing procedures. F, Sp, Su

PE185JA, JB, JC Dance-Jazz–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

PE185JJ, JK, JL Jogging–Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Covers jogging or running to gain and maintain cardiorespiratory fitness. F, Sp

PE185KA, KB, KC Karate–Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Develops the basic language and movements of martial arts. F, W, Sp, Su

PE185PA, PB, PC Personal Defense–Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Presents an active self-defense course designed to introduce the knowledge and safety in self-defense. Uses elements of surprise and the principles of leverage as key factors in the methods. Develops skills to defend oneself if needed. Offered as needed

PE185PR, PS, PT Backpacking–Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
An Introductory course in backpacking. Offered as needed

PE185RA, RB, RC Racquet Ball–Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Familiarizes students with racquetball fundamentals, including grip, swing mechanics, rules, strategy and etiquette. F, W, Sp

PE185RE Rock Climbing–Beginning
3 lab hr/wk, 1 cr.
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
PE185SA, SC Scuba Diving–Beginning, Advanced
3 lab hr/wk, 1 cr. each
Promotes and encourages the safety aspects, techniques, and enjoyment of underwater activities. Develops social, emotional, nutritional, and environmental sensitivity related to wellness. Includes stress management, and physical wellness skills. F, W, Sp, Su

PE185SD, SE, SF 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

PE185SH, SJ, SK Skiing–Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Depths, toning fluid movements, and discipline the body and mind on a meditative level. Includes student option: Qi Gong, a Chinese form of meditation and a healing technique, is a complement to Tai Ji. Six Silent Sound Qi Gong encourages energy (ji) in the body to smoothly move to each of six different internal organs to improve health. Involves doing six exercises using a controlled reverse breathing technique and toning a companion sound internally, which enhances the flow of the energy to each internal organ. F, W, Sp

PE185SN, SP, SQ Salsa Dancing–Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Prepares students to perform basic, intermediate, and advanced dance steps and common variations of Salsa, Cumbia, and Merengue. Beginning class covers basic dance terminology and techniques. Intermediate and Advanced includes advanced terminology, techniques, and combinations. Offered as needed

PE185SR Softball–Advanced
3 lab hr/wk, 1 cr.
Covers the fundamentals, rules, and strategy of softball. Presents specific skills necessary for successful recreational and/or competitive experience in softball. Incorporates wellness in the areas of physical, social, emotional, and nutritional health; stress management; and student support systems. F

PE185SS, ST, SU Swimming, Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Develops and improves swimming skills and fitness levels through a pool workout. Emphasis will include stroke improvement and swim conditioning. F, W, Sp

PE185TF, TG, TH Tennis, Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
An activity course promoting fitness and recreation through instruction on tennis fundamentals. Instruction on play will include stroke production, rules, scoring, strategy, and tennis etiquette. F, W, Sp, Su

PE185TI, TJ Tai Ji–Beginning, Intermediate
3 lab hr/wk, 1 cr. each
Teaches a classic Chinese form of exercise comprised of slow, fluid movements, which are imitations of animals in nature. Benefits various parts of the body, quiets the nervous system, benefits the heart and circulation, and disciplines the body and mind on a meditative level. Includes student option: Qi Gong, a Chinese form of meditation and a healing technique, is a complement to Tai Ji. Six Silent Sound Qi Gong encourages energy (ji) in the body to smoothly move to each of six different internal organs to improve health. Involves doing six exercises using a controlled reverse breathing technique and toning a companion sound internally, which enhances the flow of the energy to each internal organ. F, W, Sp

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

PE185VJ, VK, VL Volleyball–Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Covers the fundamentals for participation in volleyball. Develops specific skills necessary for successful recreational and/or competitive experience in volleyball. Covers physical fitness, student support systems, social, emotional, nutritional development, and stress management. F, W, Sp

PE185WA, WB, WC Weight Management–Beginning, Intermediate, Advanced
3 lab hr/wk, 1 cr. each
Educates, supports, and motivates individuals interested in managing their weight. Includes nutrition information, weigh-in, class discussion and daily exercise management. F, W, Sp, Su

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 downs 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

PE185WT White Water Rafting–Beginning
3 lab hr/wk, 1 cr.
Offers preparation for rafting in the river environment. Covers safety in the outdoors and around the water, hypothermia, reading currents and water hydrology, techniques of paddling and rowing, equipment, and conditioning knowledge. Offered as needed

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, equipment, and physical conditioning. Offered as needed

PE185YA, YB, YC 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 (asanas), proper breathing techniques and stress reduction. F, W, Sp, Su

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 interpretations, and teaching and coaching techniques. Offered as needed

PE194TF Tennis–Professional
1 class and 2 lab hr/wk, 2 cr.
Demonstrates how to teach tennis. Sp

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. F
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. Sp

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. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed.

PE294WP 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.

PH

Physics

PH060 Applied Physical Science  
2 class and 3 lab hr/wk, 3 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; or MTH081 or higher with a grade of C or better; or consent of instructor. F, W

PH121 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. Offered as needed.

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. Offered as needed.

PH201 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: PH201 or higher with a grade of C or better; or consent of instructor. F, Su

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: PH201 or higher with a grade of C or better; or consent of instructor. Offered as needed.

PH203 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: PH201 or higher with a grade of C or better; or consent of instructor. Offered as needed.

PH204 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: PH201 or higher with a grade of C or better; or consent of instructor. Offered as needed.

PH205 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: PH201 or higher with a grade of C or better; or consent of instructor. Offered as needed.

PHL

Philosophy

PHL201 Introduction to Philosophy  
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 philosophy. Focuses on the nature of reality, free will, determinism, the existence of God, knowledge, Ethics, the nature of personhood, and whether or not there is a meaning in life. Features such important figures as Socrates, Plato, Aristotle, Descartes, Kant, James, and Sartre. Prepares students for other classes in Philosophy and Religion. Recommended: Placement into WR121; or completion of WR115 with a grade of C or better. F, W, Sp, Su
PHM101 Introduction 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

PHM110 Pharmacy Calculations  
3 class hr/wk, 3 cr.  
Introduces the job responsibilities and knowledge and skills required of a pharmacy technician. Overview of pharmaceutical workplace experiences in a healthcare or related setting. Prerequisite: Third-term standing in the Pharmacy Technician program. W

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

PHM120 Pharmacy Operations/Laboratory  
2 class and 2 lab 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: First-term standing in the Pharmacy Technician program. W

PHM130 Pharmacy Info/Law and Ethics  
3 class hr/wk, 3 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. Sp

PHM140 Multicultural Patient Healthcare  
3 class hr/wk, 1 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. W

PHM150 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. Sp

PHM160 Pharmacy Specialized Care  
3 class hr/wk, 3 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. Sp

PHM170 Over-the-Counter (OTC) Products  
2 class 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. W

PHM180 Sterile Compound/Cytotoxic Medications  
3 class hr/wk, 3 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. Sp

PHM190 Pharmaceutical Drug Classifications  
3 class hr/wk, 3 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. Sp

PHM200 Multicultural Patient Healthcare  
3 class hr/wk, 1 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. W

PHM210 Over-the-Counter (OTC) Products  
2 class 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. Sp

PHM220 Pharmaceutical Drug Classifications  
3 class hr/wk, 3 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. Sp

PHM230 Pharmaceutical Drug Classifications  
3 class hr/wk, 3 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. Sp

PHM240 Multicultural Patient Healthcare  
3 class hr/wk, 1 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. W

PHM250 Pharmaceutical Drug Classifications  
3 class hr/wk, 3 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. Sp
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, and respiratory systems, as well as oncology principles. Presents general concepts of medication therapeutic, and the pathophysiology regarding diseases being treated in said body systems as well as involving cellular physiology and drug transport through the cell membranes. Provides an overview of chemical concepts utilized in pharmacy. Prerequisite/Corequisite: PHM230 with a grade of C or better; or consent of instructor. F

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, 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

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. Sp

PHM240 Advanced Pharmacy Management 1
3 class hr/wk, 3 cr.
Introduces the management functions, concepts, and principles as well as managerial roles in the context of the health services organization and the health services delivery system. Prerequisite: Second-year standing in Pharmacy Management program; or consent of instructor. F

PHM241 Advanced Pharmacy Management 2
3 class hr/wk, 3 cr.
Emphasizes the area of human resource management in health services organizations. Explores the concepts of motivation, leadership, communication, dynamics of change, personnel administration, labor relations, and new trends within the context of the health service organization and delivery system in the United States. Prerequisite: PHM240 with a grade of C or better; and second year standing in Pharmacy Management program; or consent of instructor. W

PHM242 Advanced Pharmacy Management 3
3 class hr/wk, 3 cr.
Provides a working knowledge of basic statistical techniques and their application to various health care literature and clinical environments. Uses the concepts of experiential and case-based learning to facilitate the learning process. Prerequisite: PHM241 with a grade of C or better; and second year standing in Pharmacy Management program; or consent of instructor. Sp

PHM280B-L Cooperative Work Experience
See CWE-Cooperative Work Experience

PLP

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 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

PLP122 Prior Learning Portfolio Development
2 class hr/wk, 2 cr.
Focuses on developing a credit for prior learning portfolio. Emphasizes relating previous learning and experiences to the outcomes and content contained in course outlines. Integrates information from consultations with instructor/evaluators into detailed essays and documentation in support of claims to prior learning. Includes submission of final portfolio for review. Recommended: WR115 or WR121, either with a grade of C or better. Prerequisite: PLP121 with a grade of C or better; or consent of instructor. F, W, Sp

PSY

Political Science

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, conflict resolution, and stress management. F, W, Sp, Su

PSY102 Introductory Psychology
4 class hr/wk, 4 cr.
Provides a general overview of the field of psychology. Explores a range of topics including the history of psychology as a discipline, contemporary approaches to psychology, psychological research, the brain and behavior, sensation and perception, states of consciousness, learning, memory, intelligence, human development, motivation and emotion, personality, social psychology, health psychology and psychological disorders. F, W, Sp, Su

PSY201 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. F, W, Sp, Su
PSY104 Psychology in the Workplace
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 problem solving and decision making; becoming an effective leader; motivation and goal planning; time management; cross-cultural relations and diversity; stress management; enhancing job search and career management skills; enhancing ethical behavior; and managing various work conditions. Covers the history of work in the United States including important laws and regulations (i.e., Discrimination and Harassment (EEO, ADA, Civil Rights Acts) & Taft-Hartly Act of 1947). F, W, Sp, Su; CL

PSY201 Introduction to Psychology: Mind and Body
4 class hr/wk, 4 cr.
Offers the first term of two courses in introductory psychology. Focuses on psychology as a science stressing history, methodology, the biological foundations of behavior, human development, sensation, perception, learning, and memory. Prerequisite: Placement into RD090 and WR100, each with a grade of C or better; or consent of instructor. F, W, Sp, Su

PSY202 Introduction to Psychology: Mind and Society
4 class hr/wk, 4 cr.
Covers language, thinking, emotion, motivation, intelligence, personality theory, health psychology, stress, abnormal psychology, therapies, and social psychology. Focuses on the study of the unequal distribution of power as it relates to difference and the unequal distribution of power across cultures and/or social institutions. Prerequisite: Placement into RD115 and WR115; or completion of (or concurrent enrollment in) RD090 and WR090, each with a grade of C or better; or consent of instructor. F, W, Sp, Su

PSY206 Introduction to Social Psychology
4 class hr/wk, 4 cr.
Introduces the problems, theories, and methods of social psychology. Emphasizes diverse ways in which people’s thoughts and actions are influenced by the presence or implied presence of social stimuli. Illustrates theories and research on such topics as self-concepts, relationships, conformity, helping behavior, leadership, and aggression. Exposes students to the practical nature of many of social psychology’s theories with real life examples and class assignments. Prerequisite: PSY201 with a grade of C or better; or consent of instructor. F, W, Sp, Su

PSY213 Introduction to 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: PSY201; or BI211, BI212, and BI213; or BI171 and BI172; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better) F, W, Sp, Su

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 prenatatal development, birth, infancy, childhood, adolescence, adulthood, and death and bereavement. Prerequisite: PSY201 with a grade of C or better; or consent of instructor. F, W, Sp, Su

PSY239 Introduction to Abnormal Behavior
4 class hr/wk, 4 cr.
Provides a broad overview of abnormal psychology. Include assessment and classification of psychological disorders, biological and environmental factors associated with psychopathology, treatment, and ethical legal issues. Prerequisite: PSY201 with a grade of C or better; or consent of instructor. F, W, Sp, Su

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 problem-atic behavior. Prerequisite: PSY201 with a grade of C or better; or consent of instructor. F, W, Sp, Su

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 ritual. Includes the great monotheisms (Christianity, Judaism 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 thinking, writing, and discussion to explore the principal components of the world’s dominant wisdom traditions. Recommended: Placement into WR121; or WR115 with a grade of C or better. Offered as needed; CL

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; or RD080 with a grade of C or better; or consent of instructor. F, W, Sp, Su

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 RD090 with a grade of C or better; or consent of instructor. F, W, Sp, Su

RD120 Critical Thinking and Reading
3 class hr/wk, 3 cr.
Develops vital critical and creative thinking and reading skills. Students will apply these skills as they consider issues of Difference, Power and Responsibility (DPR) within American society. Prerequisite: Placement into RD120; or RD115 with a grade of C or better; or consent of instructor. F, W, Sp, Su
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 completion of WR115 with a grade of C or better. 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 completion of WR115 with a grade of C or better. F, W, Sp, Su

REL203 Religion in US 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 WR115 with a grade of C or better. Offered as needed; CL

RNW 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 design, 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. Represents a multidisciplinary field that requires mechanical, aeronautical, electrical, civil, materials engineering, meteorology, and land development knowledge. Covers Wind Energy Systems from conception of the wind turbine to completion and maintenance of wind turbines. Includes practical experience including climbing and rigging. 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

RUS 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 Russian 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. Prerequisite: These courses are to be taken sequentially. RUS101: None. RUS102: RUS101 with a grade of C or better; or one year of high school Russian; or consent of instructor. RUS103: RUS102 with a grade of C or better; or two years of high school Russian; or consent of instructor. 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. Prerequisite: These courses are to be taken sequentially. RUS201: RUS103 with a grade of C or better; or three years of high school Russian; or consent of instructor. RUS202: RUS201 with a grade of C or better; or consent of instructor. RUS203: RUS202 with a grade of C or better; or consent of instructor. RUS201, F; RUS202, W; RUS203, Sp

Secretarial
See BT–Business Technology

SLP 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 approaches to identifying and the milestones of language development. W, 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 and approaches to identifying and the milestones of language development. W, Offered as needed

SLP184 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

SLP185 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

SLP186 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, both with a grade of C or better; or consent of instructor. W, Sp

SLP187 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

SLP188 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 a 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 model. Includes an overview of the various genetic disorders. Prerequisite: SLP180 with a grade of C or better; or consent of instructor. Offered as needed

SLP189 SLPA Practicum 1
1 class and 6 lab hr/wk, 3 cr.
Focuses on guided practice in speech language pathology assistant. 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. W

SLP190 SLPA Practicum 2
1 class and 6 lab hr/wk, 3 cr.
Focuses on guided practice in speech language pathology assistant. 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: SLP189 with a grade of C or better; or consent of instructor. W

SLP191 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

SLP192 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, SLP183, and SLP188; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) Offered as needed
SLP193 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, both with a grade of C or better; or consent of instructor. Offered as needed

SLP194 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, both with a grade of C or better; or consent of instructor. Offered as needed

SOC

SOC204 The Sociological Perspective
3 class hr/wk, 3 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. 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. 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. 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. 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. F, W, Sp, Su; 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. F, W, Sp, Su

SOC232 Death and Dying: A Socio-Cultural Perspective
4 class hr/wk, 4 cr.

SPN

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. Prerequisite: These courses are to be taken sequentially. SPN101: None. SPN102: SPN101 with a grade of C or better; or one year of high school Spanish; or consent of instructor. SPN103: SPN102 with a grade of C or better; or two years of high school Spanish; or consent of instructor. SPN101, F, W, Sp, Su; SPN102, F, W, Sp, Su; SPN103, 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. Prerequisite: These courses are to be taken sequentially. SPN111: None. SPN112: SPN111 with a grade of C or better; or consent of instructor. SPN113: SPN112 with a grade of C or better; or consent of instructor. SPN111, F; SPN112, W; SPN113, Sp

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. SPN150 is equivalent to SPN101 and the first half of SPN102; SPN151 is equivalent to the second half of SPN102 and all of SPN103. Spanish is the primary language of the class. Prerequisite: SPN150: None. SPN151: SPN150 with a grade of C or better; or one year of high school Spanish; or consent of instructor. Offered as needed
SPN201, 202, 203 Second 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. Prerequisite: These courses are to be taken sequentially. SPN201: SPN103 with a grade of C or better; or three years of high school Spanish; or consent of instructor. SPN202: SPN201 with a grade of C or better; or consent of instructor. SPN203: SPN202 with a grade of C or better; or consent of instructor. SPN211: SPN113 with a grade of C or better; or consent of instructor. SPN212: SPN211 with a grade of C or better; or consent of instructor. SPN213: SPN212 with a grade of C or better; or consent of instructor. 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. Prerequisite: 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

**SSC**

**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. Offered as needed

**SSP**

**Study Skills**
See also 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, Su

**SSP060 Study Strategies for Learning Math**
1 class hr/wk, 1 cr.

**SSP075 Vocabulary Building**
3 class hr/wk, 3 cr.
Focuses on improving and expanding vocabulary by using strategies for learning general and academic vocabulary. Uses context clues, word analysis (prefix, suffix, root) and print and online resources such as dictionaries and a thesaurus to determine the meanings of new words. F, W, Sp, Su

**SSP112 Effective Learning**
3 class hr/wk, 3 cr.
Develops practical and efficient time management strategies. Prerequisite: Placement into RD090 or higher; or consent of instructor. 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, Su

**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, Su

**SSP117 Applied Note Taking**
1 class hr/wk, 1 cr.
Develops practical and efficient textbook and lecture not taking as well as listening strategies. Prerequisite: Placement into RD090 or higher; or consent of instructor. F, W, Sp, Su

**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, Su

**SSP125 Learning Strategies for Online Students**
1 class hr/wk, 1 cr.
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

**ST**

**Occupational Skills Training**

**ST050A-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
VC111 Introduction to Visual Communications
4 class 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

VC114 Introduction to Digital Graphics
2 class and 4 lab hr/wk, 4 cr.
Introduces interactive and time-based software for graphic artists. Includes instruction in web design and development software, multimedia authoring tools, and digital video editors. Prerequisite: VC114 with a grade of C or better; or consent of instructor. F

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

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

VC134 Dreamweaver
1 class and 2 lab hr/wk, 2 cr.
Introduces Adobe Dreamweaver web development software to create basic web pages and maintain an online presence. Prerequisite: Previous computer experience; or consent of instructor. F, Sp

VC135 Flash 1
1 class and 2 lab hr/wk, 2 cr.
Introduces the concepts and techniques of creating animation, sound and interactivity for Web sites. Prerequisite: Previous computer experience; or consent of instructor. F, Sp

VC136 Flash 2
1 class and 2 lab hr/wk, 2 cr.
Covers techniques including sound, advanced interactivity and video into Flash Projects, as well as optimising movies. Prerequisite: VC135 with a grade of C or better; or consent of instructor. W

VC137 Web Graphics 1
1 class and 2 lab hr/wk, 2 cr.
Develops the techniques and skills needed to create, edit, save and post basic images on the World Wide Web. Investigates the basic reasons for using graphics on a web page and explores the various types of usage. Prerequisite: VC130 or equivalent experience as determined by instructor. Offered as needed

VC138 Web Graphics 2
1 class and 2 lab hr/wk, 2 cr.
Further develops the techniques and skills needed to create, edit, save and post complex images on the World Wide Web. Investigates the reasons for using graphics on a web page and explores the various types of usage. Prerequisite: VC137 with a grade of C or better; or consent of instructor. Offered as needed

VC139 Illustrator 1
1 class and 2 lab hr/wk, 2 cr.
Introduces the use of vector graphic software Illustrator. Prerequisite: Previous computer experience; or consent of instructor. Offered as needed

VC140 Illustrator 2
1 class and 2 lab hr/wk, 2 cr.
Continues the use of vector graphic software Illustrator. Prerequisite: VC139 with a grade of C or better; or consent of instructor. Offered as needed

VC144 Dreamweaver 2
1 class and 2 lab hr/wk, 2 cr.
Expand web development skills focusing on common challenges in digital page layout, and developing both technical and creative thinking skills. Prerequisite: VC114 and ART244, both with a grade of C or better; or consent of instructor. Sp

VC147 Cascading Style Sheets
1 class and 2 lab hr/wk, 2 cr.
Introduces the theory 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

VC171-173 Special Projects
3-9 lab hr/wk, 1-3 cr.
Offers a variable format class to gain an awareness of the Visual Communications program or evidence of equivalent experience required by topic; or consent of instructor. 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: VC224 with a grade of C or better; or consent of instructor. Corequisite: VC246. 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 plat-
forms. Course approaches interface design
problems from both visual design and us-
ability perspectives. Includes requirements
analysis, design process, grid and hierarchy,
usability, and basic technical features and
limitations of the medium. Prerequisite:
ART224 and VC224, both 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 basic graphics and lay-
outs 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. Offered as needed

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. W

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. VC241 Interactive Media
2 class and 4 lab hr/wk, 4 cr.
Introduces students to interface design for
desktop and mobile browser-based plat-
forms. Course approaches interface design
problems from both visual design and us-
ability perspectives. Includes requirements
analysis, design process, grid and hierarchy,
usability, and basic technical features and
limitations of the medium. Prerequisite:
ART224 and VC224, both with a grade of C
or better; or consent of instructor. W

VC246 File Prep
2 class and 2 lab hr/wk, 3 cr.
Builds knowledge of reading digital files
for offset printing. Presents common file
problems and their solutions, including is-
sues with page geometry, vector and raster
files, application of color, font use, PDF files,
and final proofing and output. Corequisite:
VC225. Prerequisite: VC151 with a grade
of C or better; or consent of instructor. F

VC251 Color Correction
2 class and 2 lab hr/wk, 3 cr.
Covers advanced study and application of
color management, image correction and
print preparation techniques for photo-
graphs. Prerequisite: VC151 with a grade
of C or better; or consent of instructor. Of-
fered as needed

VC271-3A Design Studio
1 class and 0-4 lab hr/wk, 1-3 cr.
Provides the opportunity to work with an
instructor on the design and production of
live graphic design projects. Any combina-
tion of the courses may be repeated for
a maximum of six credits. Prerequisite:
Second year standing in the Visual Commu-
ications program. Offered as needed

VC271-3B Web Studio
1 class and 0-4 lab hr/wk, 1-3 cr.
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. Offered as needed

VC271-3C Photo Studio
1 class and 0-4 lab hr/wk, 1-3 cr.
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. Prer-
erequisite: 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 common operation procedures
of creative businesses; and emphasizes
graphic arts trade practices for both fre-
lancers and small organization. Includes
instruction on project management skills:
Production schedules, estimating, working
with clients, hourly rates, record keep-
ing, and billing procedures. Corequisite:
VC284. Prerequisite: Second-year standing
in the Visual Communications program; or
consent of instructor. Sp

VC284 Portfolio
2 class and 4 lab hr/wk, 4 cr.
Serves as a capstone course for all students
in the Graphic Design program. Includes
portfolio building, job markets, résumés,
business stationery, and mock interviews.
Participation in a class portfolio show is a
graduation requirement. Prerequisite:
Second-year standing in the Visual
Communications program; and concur-
rent enrollment in VC283, and VC285A or
VC285B. Sp

VC285A Design Portfolio Presentation
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. Prereq-
quisite: Second-year standing in the Visual
Communications program; and concurrent
enrollment in VC283 and VC284. Sp

VC285B Web Portfolio Presentation
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. Prereq-
quisite: Second-year standing in the Visual
Communications program; and concurrent
enrollment in VC283 and VC284. Sp

VMW

Vineyard Management/ Winemaking

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.

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 busi-
ness. Explores different business models
in the Oregon wine industry. Offered as
needed

VMW103 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 vocabu-

lary, greetings, and basic grammar. Prereq-
quisite: SPN101 or higher, with a grade of C
or better; or consent of instructor. W
VMW114 Winter Vineyard Practices 3 class and 2 lab hr/wk, 4 cr. Surveys winter vineyard management practices. Covers training, 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. W

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. Prerequisite: VMW115 with a grade of C or better; or consent of instructor. Sp

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: VMW116 with a grade of C or better; or consent of instructor. 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 wine growth and berry ripening; wine 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, 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 Introduction to Wine Marketing 3 class hr/wk, 3 cr. Explores wine marketing in Oregon and worldwide. Introduces concepts and topics useful to winery and vineyard owners; marketing personnel, retail and wholesale wine marketers and wine buyers. Sp

VMW222 Science of Winemaking 3 class hr/wk, 3 cr. Focuses on the scientific principles of wine production. Cover 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: CH122, CH172, or VMW122; or consent of instructor. (All prerequisite courses must be completed with a grade of C or better.) W

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. 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: CH122, CH172, and VMW222; 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: CH123, CH172, and VMW244; or consent of instructor. Students must be 21 years of age. (All prerequisite courses must be completed with a grade of C or better.) 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: CH123, CH172, and 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. W

VMW256 Agriculture Business Management 3 class hr/wk, 3 cr. Emphasizes the importance of business management principles to the financial success of nurseries, greenhouses, vineyards, and wineries. Focuses on developing skills in business planning, goal setting, financial record keeping, financial analysis and budgeting. Addresses regulatory issues including, but not limited to, environment, taxes and employment. Prerequisite: Consent of instructor. Sp
VMW272 Wine Marketing: Understanding the Wine Market
Place
4 class hr/wk, 4 cr.
Stresses the channels of wine distribution, focusing on the three-tier system. Covers technological tools to target the market. Emphasizes effective sales presentations and techniques. Reviews the political and legal aspects of the wine marketplace.
Prerequisite: VMW170 with a grade of C or better; or consent of instructor. Offered as needed

VMW273 Wine Marketing: Assessing and Targeting the Market
4 class hr/wk, 4 cr.
Emphasizes how to move the wine marketing business past the “romance stage” to the next level. Combines practical and theoretical practices. Provides tools for assessing the wine market place. Examines how external events impact a wine marketing plan. Integrates all aspects of wine marketing. Focuses on preparing and presenting a wine marketing plan. Prerequisite: VMW272 with a grade of C or better; or consent of instructor. Sp

VMW274 Wine Marketing: Marketing a Winery or Other Tasting Room
4 class hr/wk, 4 cr.
Stresses the channels of wine distribution, focusing on the three-tier system. Combines practical and theoretical practices. Provides tools for assessing the wine market place. Examines how external events impact a wine marketing plan. Integrates all aspects of wine marketing. Focuses on preparing and presenting a wine marketing plan. Prerequisite: VMW272 with a grade of C or better; or consent of instructor. Offered as needed

Welding Fabrication
WFB087 Fabrication Practices 3
1 class and 6 lab hr/wk, 3 cr.
Emphasizes structural fabrication using steel and aluminum. Prerequisite: Enrollment in Welding Fabrication program or consent of program chair.

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.

WFB096 Shop Projects
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.

WFB097 Welding Shop Problems 2
1 class and 15 lab hr/wk, 6 cr.
Provides continuation of welding shop problem experience with an emphasis toward on-the-job work experience. Encourages students to begin the CWE (Cooperative Work Experience) program in order to transition from school to the work place. Prerequisite: Six-term standing in the Welding Fabrication program; or consent of instructor. Sp

WFB280B-L Cooperative Work Experience
See CWE–Cooperative Work Experience
WLD057 Layout Practices  
3 lab hr/wk, 1 cr.  
Studies the layout tools and their use in fabricating structural members, bins, hoppers, pipe fittings, chutes, etc. Includes principles and practices of pattern development for typical forms and fitting. W

WLD058 Welding Shop Problems  
2 class and 15 lab hr/wk, 7 cr.  
Offers a review and application of 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: Third-term standing in the Welding program; or equivalent industrial experience as determined by the program chair; or consent of program chair. Sp

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

WLD061 Basic Gas Metal Arc Welding (MIG)  
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

WLD062 Intermediate Gas Metal Arc Welding (MIG)  
1 class and 6 lab hr/wk, 3 cr.  
Builds upon WLD061 and includes a study of and practice in welding of carbon steel. Emphasizes production in welding situations, using large diameter electrodes (solid and flux-cord) with mixed shielding gases in flat or horizontal positions. Prerequisite: WLD061 with a grade of C or better; or consent of program chair. W

WLD063 Advanced Gas Metal Arc Welding (MIG)  
1 class and 6 lab hr/wk, 3 cr.  
Continues WLD062. Includes welding mild steel, aluminum, stainless steel and steel pipe welding. 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: WLD061 with a grade of C or better; or equivalent industrial experience as determined by the program chair; or consent of program chair. Sp

WLD070 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

WLD073 Basic Gas Tungsten Arc Welding (TIG)  
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. W

WLD077 Welding Processes  
2 class and 6 lab hr/wk, 4 cr.  
Introduces the fundamentals of shielded metal arc welding, oxyacetylene welding and cutting, metallic inert gas welding (MIG), and arc-air procedures. W

WLD080 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

WLD097 Welding  
1 class and 3 lab hr/wk, 2 cr.  
Covers the fundamentals and application of arc welding, oxyacetylene welding, brazing and cutting pertaining to the automotive industry. Prerequisite: Sixth term standing in the Automotive Technology program; or consent of program chair. Sp

WLD280B-L Cooperative Work Experience  
See CWE–Cooperative Work Experience

WR  
Writing  
See also SSP–Study Skills

WR060 Introduction to Technical Writing  
1 class hr/wk, 3 cr.  
Improves writing skills. Focuses on writing intended to replicate projects in occupational and technical fields. Can be used as an option for meeting writing requirements for some CTE programs. F, W, Sp

WR065 Introduction to Technical Writing  
2 class hr/wk, 3 cr.  
Serves as the report writing class for students following 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. Can be used as an option for meeting writing requirements for some CTE programs. Prerequisite: WR060 with a grade of C or better; or equivalent course as determined by instructor; or consent of instructor. W, Sp

WR073 Basic Gas Tungsten Arc Welding (TIG)  
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. W

WR077 Welding Processes  
2 class and 6 lab hr/wk, 4 cr.  
Introduces the fundamentals of shielded metal arc welding, oxyacetylene welding and cutting, metallic inert gas welding (MIG), and arc-air procedures. W

WR080 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

WR097 Welding  
1 class and 3 lab hr/wk, 2 cr.  
Covers the fundamentals and application of arc welding, oxyacetylene welding, brazing and cutting pertaining to the automotive industry. Prerequisite: Sixth term standing in the Automotive Technology program; or consent of program chair. Sp

WR280B-L Cooperative Work Experience  
See CWE–Cooperative Work Experience

WR  
Writing  
See also SSP–Study Skills

WR060 Introduction to Technical Writing  
1 class hr/wk, 3 cr.  
Improves writing skills. Focuses on writing intended to replicate projects in occupational and technical fields. Can be used as an option for meeting writing requirements for some CTE programs. F, W, Sp

WR065 Introduction to Technical Writing  
2 class hr/wk, 3 cr.  
Serves as the report writing class for students following 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. Can be used as an option for meeting writing requirements for some CTE programs. Prerequisite: WR060 with a grade of C or better; or equivalent course as determined by instructor; or consent of instructor. W, Sp

WR080 Basic Writing  
4 class hr/wk, 4 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; or consent of instructor. F, W, Sp, Su

WR090 Fundamentals of Writing  
4 class hr/wk, 4 cr.  
Focuses on writing essentials that build confidence in writing for a variety of academic purposes. Emphasizes skills necessary to produce thesis-driven essays. Reinforces grammar and sentence-level editing skills in the context of paragraphs and short essays. Covers critical reading of college-level texts. Prerequisite: Placement into WR090; or WR080 with a grade of C or better; or consent of instructor. Offered as needed

WR091 Writing Essentials  
1 class hr/wk, 1 cr.  
Covers the mechanical and linguistic aspects of writing and other skills needed in college writing courses. Course may be repeated for a maximum of two credits. F, W, Sp

WR115 Introduction to Composition  
4 class hr/wk, 4 cr.  
Introduces the conventions and skills of college-level writing; emphasizes clear writing and critical reading and thinking; bridges developmental writing courses and WR121. Prerequisite: Placement into WR115; or WR090 with a grade of C or better. F, W, Sp, Su

WR121 English Composition: Exposition  
4 class hr/wk, 4 cr.  
Emphasizes clear, detailed writing that employs critical reading and thinking and basic research skills. Prerequisite: Placement into WR121; or WR115 with a grade of C or better. F, W, Sp, Su; IL

WR122 English Composition: Argumentation and Research  
4 class hr/wk, 4 cr.  
Focuses on the writing of logical, effective, argumentative prose; use of stylistic elements; awareness and consideration for different audiences; research and documentation skills; and critical reading. Prerequisite: WR121 with a grade of C or better. F, W, Sp, Su; IL

WR201 Advanced Editing Strategies  
1 class hr/wk, 1 cr.  
Covers advanced punctuation and editing skills needed in upper level college writing courses and writing-intensive jobs. Course may be repeated for a maximum of two credits. Prerequisite: Placement into WR121; or WR115 with a grade of C or better; or consent of instructor. Offered as needed
WR243 Playwriting 4 class hr/wk, 4 cr.
Introduces the basic elements of playwriting, 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: WR212 or any combination of English Composition I and English Composition II, either with a grade of C or better; or consent of instructor. 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 with a grade of C or better; or consent of instructor. W

WR245 Advanced Poetry 4 class hr/wk, 4 cr.
Develops the techniques of creating and revising short poetry that were introduced in WR242 and examined in greater complexity the foundational theories of imaginative writing. Examines current methods of finding print and electronic audiences for works of poetry. Employs a workshop format of presenting and critiquing student work. Course may be repeated for a maximum of 8 credits. Prerequisite: WR242 with a grade of C or better; or consent of instructor. W

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, education, and health/medicine affect different groups of women. Explores issues of gender, race, class, age, sexual orientation, size, and ability. F, W, Sp, Su; CL
Program Choices

Select one of the following programs of study:
Students younger than 18 who do not have a high school diploma or GED must complete the Underage Consent Form. Contact the Admissions office at 503.399.5006 for information.

Personal Enrichment (non-degree seeking)

PER1 Students 18 or older with a high school diploma or GED certificate

Career and Technical Programs

Some programs listed below may have special admission requirements, prerequisites and/or require assessment before admission. Contact Counseling Services at 503.399.5120 for information.

Associate of Applied Science (AAS)

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<th>Title</th>
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<td>PRAC</td>
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<td>*APR</td>
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<td>PRJJ</td>
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<td>(AAS) Juvenile Justice</td>
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<td>PRPM</td>
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Lower division transfer

LDC-BUSINESS

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<td>LDC-GENERAL STUDIES</td>
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<td>LD03</td>
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<td>LD02</td>
<td>(AAOT) Associate of Arts Oregon Transfer</td>
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<td>LD02</td>
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<tr>
<td>LD18</td>
<td>(AS) Associate of Science Oregon Transfer Module (OTM)</td>
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*These programs are not eligible for financial aid assistance. If applying for financial aid and you need help selecting a program please contact the Admissions office at 503.399.5006. For other financial aid inquires please contact the Financial Aid office at 503.399.5018.
Faculty and Administration
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—Joe Van Meter
Zone Four—Ken Hector
Zone Five—Jackie Franke
Zone Six—Diane Watson
Zone Seven—Betsy Earls

Faculty and Administration as of July 2012

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.

Adams, Michael—Instructor, Wine Business/Marketing
MA, Wine Business University of Adelaide

Aebi, Eric—Instructor, Hospitality & Tourism Management
MBA, Business Administration Capella University
BA, Arts & Letters Portland State University

Agee, CS (Steve)—Instructor, Automotive Technology
Cert., Auto Technician Mt. Hood Community College

Aguirre, Blanca—Counselor, Student Services
BA, Psychology Western Oregon University
MS, Counseling Oregon State University

Alfaqeh, Nuri—Instructor, Mathematics
BS, Engineering—Nuclear Oregon State University

Alvarez, Maria (Cleo)—Counselor
MS, Counseling Western Oregon University

Anderson, Kenneth—Instructor, Mathematics
MS, Systems Analysis Air Force Institute of Technology
BS, Mathematics Western Oregon University
BS, Secondary Education Western Oregon University

Andrews, Peggy—Instructor, Emergency Medical Technology
Cert., Emergency Medical Technician—Paramedic Houston Community College
Cert., Paramedic Training Houston Community College

Antoine, Patricia—Instructor, Sociology/Diversity
MS, Sociology Portland State University
BS, Sociology Portland State University
AA, Lower Division Collegiate Chemeketa Community College

Bagnall, Marcia—Coordinator, Small Business Development Center
MBA, Administration California State Polytechnic University
MA, Education California State Polytechnic University
BA, History Occidental College

Ballard, Justus—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—Instructor, Mathematics
MS, Teaching: Mathematics University of Oregon
BS, Mathematics University of Oregon

Bates, Michael—Instructor, Computer Information Systems
MS, Mathematics Idaho State University
BS, Mathematics University of Utah

Beach, Natalie—Director, Library and Tutoring Services
MLS, Library Science Rutgers
MA, Humanities: History of Ideas University of Texas-Dallas
BA, English Rutgers

Bean Joseph S—Instructor, Life Science
BS, Interdisciplinary Studies College of William & Mary
MD, Medicine University of Virginia

Behmard, Sheeny—Instructor, Mathematics
MS, Math Science: Statistics Eastern Kentucky University
MS, Statistics Oregon State University
BA, Mathematics Berea College
BA, Physics Berea College

Belmodis, Cassie—Dean, Health, Human Performance and Athletics
BA, Physical Education Willamette University
BA, Psychology Willamette University

Bernhisel, Donna—Instructor, English/Writing
MA, English Utah State University
BS, Social Work Brigham Young University

Berntson, Tom—Instructor, Physical Science
MS, Biochemistry Iowa State University
BS, Chemistry Western Illinois University

Bibler, Margaret (Carol)—Instructor, Art
BA, Art University of Washington

Bolante, Rebecca—Coordinator, Disability Services
MS, Rehabilitation Western Oregon University
BS, Psychology Western Oregon University

Bone, Andrew—Executive Dean
MA, Humanities California State University at Dominguez Hills
BS, Business Western Oregon University
BA, Business Administration Saint Mary’s College of California

Borden, Tiffany—Counselor
MS, Counseling Western Oregon University
BA, Liberal Arts Stephens College

Borjesson, Peggy—Director, Human Resources
BS, Social & Behavior Sciences Linfield College
AA, General Studies Linn-Benton Community College

Bowman, Roberta (Bobbi)—Instructor, Reading and Study Skills
MS, Interdisciplinary Studies Western Oregon University
BS, Elementary Education University of Kansas Main Campus
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<tr>
<th>Last Name</th>
<th>First Name</th>
<th>Position/Department</th>
<th>Institution/Program</th>
<th>Degree(s)</th>
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<tbody>
<tr>
<td>Brase, Amy</td>
<td>Instructor, Nursing-Clinical</td>
<td>Gonzaga University</td>
<td>MSN, Nursing</td>
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<tr>
<td>Brase, Don</td>
<td>Dean, Humanities &amp; Communications</td>
<td>University of Montana</td>
<td>MA, English</td>
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<td>Brase, Don</td>
<td>Instructor, English</td>
<td>University of Washington</td>
<td>BA, English</td>
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<tr>
<td>Buckholz, Chery</td>
<td>Instructor, Pharmacy Technician</td>
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<td>Buckholz, Chery</td>
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<td>Bunnenberg-Boehmer, Kay</td>
<td>Instructor, Arts, Literature</td>
<td>San Francisco Art Institute</td>
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<td>Busha, Cathleen</td>
<td>Instructor, Human Services</td>
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<td>Cammack, Janice</td>
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<tr>
<td>Cammack, Janice</td>
<td>Instructor, Physical Science</td>
<td>George Fox University</td>
<td>BS, Chemistry</td>
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<td>Campbell, Kathleen</td>
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<td>BA, Human Resources Management</td>
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<td>Canoy, David</td>
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<td>Canoy, David</td>
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<td>Cegon, Lori</td>
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<td>Western Oregon University</td>
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<td>Shih Hsin University</td>
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<td>Colantino, Kimberly (Kim)</td>
<td>Instructor, Composition/Literature</td>
<td>Washington State University</td>
<td>MS, English</td>
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<tr>
<td>Colantino, Kimberly (Kim)</td>
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<tr>
<td>Collins, Aileen</td>
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<td>MS, Psychology</td>
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<tr>
<td>Collins, Aileen</td>
<td>Instructor, Psychology</td>
<td>University of Georgia</td>
<td>BA, Psychology</td>
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<tr>
<td>Cortell, Jessica</td>
<td>Instructor, Vineyard Management</td>
<td>Oregon State University</td>
<td>PhD, Food Sciences &amp; Technologies</td>
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<tr>
<td>Cortell, Jessica</td>
<td>Instructor, Vineyard Management</td>
<td>Oregon State University</td>
<td>MS, Horticulture</td>
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<tr>
<td>Cortell, Jessica</td>
<td>Instructor, Vineyard Management</td>
<td>Oregon State University</td>
<td>BS, Horticulture</td>
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<tr>
<td>Cortez, Julio</td>
<td>Counselor</td>
<td>Western Oregon University</td>
<td>MS, Counseling-Rehabilitation</td>
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<tr>
<td>Cortez, Julio</td>
<td>Counselor</td>
<td>Western Oregon University</td>
<td>BA, Psychology</td>
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<tr>
<td>Crawford, LeAnna</td>
<td>Instructor, English</td>
<td>Antioch University</td>
<td>MA, Creative Writing</td>
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<tr>
<td>Crawford, LeAnna</td>
<td>Instructor, English</td>
<td>University of Northern Colorado</td>
<td>BA, English</td>
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<tr>
<td>Crossler-Laird, Jannie</td>
<td>Instructor, English as a Second Language</td>
<td>Oregon State University</td>
<td>M.Ed., Adult Education</td>
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<tr>
<td>Crossler-Laird, Jannie</td>
<td>Instructor, English as a Second Language</td>
<td>Pacific Lutheran University</td>
<td>BA, German</td>
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<tr>
<td>Crossler-Laird, Jannie</td>
<td>Instructor, English as a Second Language</td>
<td>Pacific Lutheran University</td>
<td>BA, Social Sciences</td>
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<tr>
<td>Cruse, Maria</td>
<td>Instructor, Political Science</td>
<td>University of Texas-Arlington</td>
<td>MA, Political Science</td>
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<tr>
<td>Cruse, Maria</td>
<td>Instructor, Political Science</td>
<td>Cornell University</td>
<td>JD, Law</td>
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<tr>
<td>Cudmore, Wynn</td>
<td>Instructor, Life Science</td>
<td>Indiana State University</td>
<td>PhD, Life Sciences: Ecology</td>
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<tr>
<td>Cudmore, Wynn</td>
<td>Instructor, Life Science</td>
<td>Northeastern University</td>
<td>BS, Biology</td>
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<tr>
<td>Darby, Sydney</td>
<td>Instructor, English</td>
<td>Boston College</td>
<td>MA, English</td>
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<tr>
<td>Darby, Sydney</td>
<td>Instructor, English</td>
<td>Portland State University</td>
<td>BA, English</td>
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<tr>
<td>Davis, Cheryl</td>
<td>Instructor, Health Services Management</td>
<td>George Fox University</td>
<td>MBA</td>
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<tr>
<td>Davis, Cheryl</td>
<td>Instructor, Health Services Management</td>
<td>University of Oregon</td>
<td>BS, Health Education</td>
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<tr>
<td>Dishong McCormack, Michele</td>
<td>Instructor, Speech</td>
<td>Washington State University</td>
<td>MA, Communications</td>
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<tr>
<td>Dishong McCormack, Michele</td>
<td>Instructor, Speech</td>
<td>Chadron State College</td>
<td>BA, English and Speech Communication</td>
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<tr>
<td>Ditterick, Pamela (Pam)</td>
<td>Instructor, Early Childhood Education</td>
<td>Chemeketa Community College</td>
<td>MA, Early Childhood Education</td>
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<tr>
<td>Ditterick, Pamela (Pam)</td>
<td>Instructor, Early Childhood Education</td>
<td>Concordia University-St. Paul</td>
<td>AA, Early childhood Education</td>
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<tr>
<td>Duncan, Nancy</td>
<td>Director, Development</td>
<td>Corban College</td>
<td>BA, Psychology-Family Studies</td>
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<tr>
<td>Duncan, Nancy</td>
<td>Director, Development</td>
<td>Chemeketa Community College</td>
<td>AA, Early childhood Education</td>
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<tr>
<td>Dye, Kevin</td>
<td>Instructor, Composition/Literature</td>
<td>University of New Mexico</td>
<td>PhD, English</td>
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<tr>
<td>Dye, Kevin</td>
<td>Instructor, Composition/Literature</td>
<td>University of Oregon</td>
<td>MA, English</td>
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<tr>
<td>Dye, Kevin</td>
<td>Instructor, Composition/Literature</td>
<td>New York University</td>
<td>BA, English</td>
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<tr>
<td>Edwards, Karen</td>
<td>Instructor, Business Management</td>
<td>Willamette University</td>
<td>MBA, Business &amp; Administration</td>
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<tr>
<td>Edwards, Karen</td>
<td>Instructor, Business Management</td>
<td>Willamette University</td>
<td>BA, History</td>
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<tr>
<td>Ellis, Jane</td>
<td>Instructor, Health Services Management</td>
<td>Lewis &amp; Clark College</td>
<td>MPE, Physical Education</td>
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<tr>
<td>Ellis, Jane</td>
<td>Instructor, Health Services Management</td>
<td>Western Oregon University</td>
<td>BSE, Physical Education</td>
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<tr>
<td>Ellis, Jane</td>
<td>Instructor, Health Services Management</td>
<td>Portland Community College</td>
<td>AAS, Medical Records Technology</td>
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<tr>
<td>Emme, Larry</td>
<td>Instructor, Physical Science</td>
<td>Portland State University</td>
<td>MS, Chemistry</td>
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<tr>
<td>Emme, Larry</td>
<td>Instructor, Physical Science</td>
<td>Portland State University</td>
<td>BS, Chemistry</td>
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<td>Ensminger-Stapp, Colin</td>
<td>Instructor, Learning Technologies Facilitator</td>
<td>Pacific University</td>
<td>BA, Telecommunications</td>
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<tr>
<td>Ensminger-Stapp, Colin</td>
<td>Instructor, Learning Technologies Facilitator</td>
<td>Mt. Hood Community College</td>
<td>AAS, Television Production Technology</td>
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</tr>
</tbody>
</table>
Eustrom, James—Executive Dean, Student Development and Learning Resources
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BA, Sociology
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Williamette University

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BS, Psychology
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Cert., 200 hrs. Corrections
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BS, Psychology Western Oregon University

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AAS, Finishing Optical Technician Rochester Institute of Technology

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Jasper, Sally—Instructor, Nursing
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MS, Teaching & Training Online Capella University
BS, Speech Communication Southern Oregon University

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Kraus, Donald (Don)—Director, Public Safety
Kohlmeyer, William (Bill)—Instructor, Agriculture
Lander, Gregg—Instructor, Emergency Medical Technology

Karbginsky, Darrel—Instructor, Computer Information Systems
Keebler, Joel "JF"—Director, Agricultural Science
Kelly, Michael (Mike)—Instructor, Architecture Drafting
Klein, William (Bill)—Instructor, Fire Protection Technology
Knofler, Betty "BJ"—Instructor, Hemodialysis Technician
Kraus, Donald (Don)—Instructor, Computer Information Systems
Kuhn, Gary—Cooperative Work Experience Coordinator

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LaVine, Philip (Phil)—Instructor, Farm Business Management
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AS, Food Sciences & Technologies  
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Cert., Teaching Program  
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Graduate Course Work, Education Technology Leadership  
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Nelson, Christian—Instructor, Physical Science  
MS, Chemistry: Organic  
University of Illinois Urbana  
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Noah, Mark—Coordinator, Occupational Skills Training  
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Goshen College  

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BS, Speech & Hearing Science  
Portland State University  
AA, General Studies  
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MS, Zoology  
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MBC, Business  
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MIM, Human Resources Management  
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BS, Nursing  
Idaho State University  

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MA, Christian Counseling Psychology  
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University of Minnesota  
BS, Park & Recreation Resources  
Michigan State University  

Payne, Eva—Instructor, Communication Skills  
MA, English  
Oregon State University  
BA, English  
Oregon State University  

Peters, Julie—Instructor, Lean  
AS, Drafting Technology—Mechanical Design  
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PsyD, Psychology  
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MA, Psychology: Clinical  
George Fox University  
BS, General Studies  
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MS, Corrections  
Western Oregon University  
BS, Physical Education & Health  
Western Oregon University  
BS, Secondary Education  
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Pintler, Michael (Mike)—Instructor, Welding/Fabrication  
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Plaisance, Ricky (Doc)—Instructor, Adult Basic Ed  
MFA, Theater Arts  
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National University  
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MS, Physics  
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Privitera, Adam J—Instructor, Psychology
MA, Psychology
SUNY-Buffalo
BA, Psychology
SUNY-Buffalo

Prothero, Marylin—Instructor, English as a Second Language
M.Ed., Adult Education
Oregon State University
BA, Foreign Languages
University of Oregon

Protiva, Karen—Instructor, Life Science
PhD, Human Performance
Oregon State University
MS, Physical Education
George Mason University
BS, Kinesiological Sciences
University of Maryland College

Rasmussen, Douglas (Doug)—Instructor, Mathematics
M.Ed., Education
Linfield College
MS, Mathematics: Teacher’s Program
University of Oregon
BA, Mathematics
Linfield College

Reed, Eric—Instructor, American Sign Language
M.Ed., Early Childhood Education
Lewis and Clark College
BA, Education of Hearing Impaired
University of Tulsa

Reed, Marilyn Hart—Coordinator, Apprenticeship
BS, Humanities
Oregon State University

Reeves, David—Instructor, English as a Second Language
MA, Sociology
University of California—Los Angeles
MA, Linguistics
California State University—Northridge
BS, Economics
University of London

Regan, Valerie—Instructor, Speech Language Pathology Assistant Program
MS, Speech & Hearing Sciences
University of Oregon
BA, Psychology
Southern Connecticut State College

Reininger, Mandy—Instructor, Computer Information Systems
MSM, Information Systems Management
Keller Graduate School of Management
BA, Communications
SUNY College at Genesco
CED, Networking Systems
University of Phoenix

Reyna, Lupe—Coordinator, Veteran’s Services
BBA, Business Administration
Gonzaga University

Richardson, Steven (Steve)—Instructor, Composition & Literature
MFA, Literature: Creative Writing
University of Oregon
BA, Literature: Creative Writing
University of California—Santa Cruz

Roache, Marshall M—Instructor, Criminal Justice
MA, Liberal Studies
Fort Hays State University
BA, English
University of Oregon

Roberts, Cheryl—President/CEO, Chemeketa Community College
EdD, Educational Leadership
Seattle University
MA, Education: Special Services
Ohio State University
BA, Psychology
Seattle University

Rodriguez, Monica—Instructor, English
MA, Rhetoric, Composition & Technical Communication
Eastern Washington University
BA, English
University of Arizona

Rogers, Timothy—Chief Information Officer
BS, Administration of Justice
Portland State University

Rollins, Bryan—Instructor, Adult Basic Education
MA, TESOL
Portland State University
BA, Spanish
Western Oregon University

Rozin, Miriam—Director, Business Services
MA, Education: Policy Foundation & Administration
Portland State University
BS, Business
Western Oregon University

Rupert, Jill—Instructor, English
PhD, English
Tulane University of Louisiana
MA, English
Tulane University of Louisiana
BA, English
Whitman College

Sadouk, Jennifer—Instructor, Learning Center-Dallas Campus
MA, Continuing and College Education
Western Washington University
TESOL Certificate
Western Washington University
BA, History
University of Texas at 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

Schellenberg, Kellie—Dean, Distance Learning and Academic Technology
BA, Psychology
University of Regina

Schloeman, Keith D—Instructor, Mathematics
MS, Mathematics
Oregon State University
BS, Mathematics
Western Oregon University

Schmitz, Diane—Coordinator, Grants Development
MA, English Composition and Rhetoric
Washington State University
BA, English
Washington State University

Schnider, Sheldon—Instructor, CAD/CAM
AA, Manufacturing Engineering Technologies
Chemeketa Community College
Scholer, Andrew—Instructor, Computer Science
  MS, Computer Sciences
  University of Southern California
  BS, Science
  University of California-Los Angeles

Scholz, Alba M—Supervisor, Distance Education
  BA, Psychology
  University of Minnesota-Twin Cities

Schramm, Jennifer—Instructor, Life Science
  PhD, Biology: Plant
  University of California—Berkeley
  BA, Biology
  Knox College

Schreiber, Meredith A—Director, Auxiliary Services
  BA, History
  Oregon State University

Scott, Laura—Instructor, Developmental Writing
  MA, Anglo-Irish Literature
  Trinity College, Dublin
  BA, English Literature/Spanish Language
  Pacific University
  Cert., TEFL
  College of Ireland

Sekafetz, Charles (Chuck)—Instructor, Electronics
  AAS, Electronic Engineering
  Chemeketa Community College

Sessions, Patricia (Patti)—Instructor, Business Technology
  PMSC, Computers in Education
  University of Oregon
  MS, Business Education
  Montana State University
  BS, Business
  Montana State University

Singh, Adrian—Instructor, Chemistry
  PhD, Chemistry
  University of Wisconsin-Milwaukee
  BA, Biology & Chemistry
  Cardinal Stritch College

Sipe, Deborah M—Dean, Teaching and Learning
  MS, Liberal Arts
  Portland State University
  MA, International Studies
  University of Oregon
  AB, Political Science
  University of California-Berkeley

Skirvin, Charles (Chuck)—Counselor
  MED, Education
  Oregon State University
  BS, General Science
  Oregon State University

Slemenda, Steven (Steve)—Instructor, Composition & Literature
  MA, English
  Portland State University
  BA, English
  Portland State University

Smith, Michelle—Instructor, Life Science-Biology
  MS, Zoology
  Michigan State University
  BS, Zoology
  Michigan State University

Smith, Paul—Instructor, Nursing
  MN, Nursing
  Washington State University
  BSN, Nursing
  University of Phoenix
  AAS, Nursing
  Southern Union State Junior College

Sprague, Alice—Assistant Director, Human Resources
  MPA, Master of Public Administration
  Portland State University
  BS, Social Sciences
  Portland State University
  AA, Lower Division Transfer
  Chemeketa Community College

Steiger Morris, Christina R—Instructor, Human Services
  M.ED., Counseling
  University of Oregon
  BS, Psychology
  Oregon State University

Steiner, Marcia—Instructor, GED Options/High School Programs
  M.Ed., Education
  University of Portland
  BA, Secondary Teaching Credential
  Pepperdine University
  BA, Home Economics
  Chapman University
  Cert., Oregon Teacher’s Certificate
  Western Oregon University

Stevens, Karen—Counselor
  MSW, Social Work
  Portland State University
  BS, Psychology
  Western Oregon University
  AAOT, Lower Division Transfer
  Chemeketa Community College

Sullivan, Geraldene—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—Instructor, Farm Business Management
  MS, Agriculture Economics
  New Mexico State University
  BS, Animal Science
  Brigham Young University

Tardiff, Bryan—Instructor, Mathematics
  MS, Mathematics
  Oregon State University
  BS, Mathematics
  Oregon State University

Taylor, R—Dean, Social Science, Human Services, Business and Technology
  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

TenEyck, Lorna—Instructor, Mathematics
  MS, Education
  SUNY College at New Paltz
  BA, Anthropology
  SUNY College at Albany

Terpin, Mark—Instructor, English as a Second Language
  BA, Linguistics
  University of Oregon

Tobey, Allison—Instructor, English
  MFA, Creative Writing
  Antioch University
  BA, Psychology
  Grinnell College

Trabue, Jeremy—Instructor, English
  MA, Psychology
  State University of West Georgia
  MA, English
  State University of West Georgia
  BA, Humanities
  New College of California

Trattner, Tamara—Instructor, Early Childhood Education
  MA, Human Development
  Pacific Oaks College
  BA, Human Development
  Pacific Oaks College
  AA, Early Childhood Education
  Chemeketa Community College
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<tr>
<th>Name</th>
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<td>Troup, Count</td>
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<td>Valdivia, Armandina</td>
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<td>(Dina)</td>
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<td>VanStavern, Jan</td>
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<td>Veldhuisen, Kathleen</td>
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<td>BS, Mechanical Engineering</td>
<td>University of Alaska Fairbanks</td>
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</table>

**Wenzig, Theresa (Terri)**—Instructor, Nursing  
MSN, Nursing University of Phoenix  
BSN, Nursing Lewis-Clark State College  
AS, Nursing North Idaho College

**White, Roger**—Instructor, Electronics  
AS, Electronic Engineering Chemeketa Community College

**Whitney, John**—Instructor, English as a Second Language  
MA, English Northern Arizona University  
BS, English Northern Arizona University

**Whitton, Louanne**—Instructor, Reading and Study Skills  
M.Ed., Reading Specialist Eastern Washington University  
BA, Psychology Gonzaga University

**Whygle, Leanne J**—Instructor, Nursing  
MSN, Nursing Grand Canyon University  
BSN, Nursing Grand Canyon 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**—Instructor, Nursing  
MSN, Nursing University of Phoenix  
BS, Nursing National University  
AS, Nursing Imperial Valley College

**Willis, Monica**—Instructor, Adult Basic Education  
M.Ed., Education University of Portland  
BA, International Studies Willamette University  
BA, Spanish Willamette University

**Witkowski, Art**—Instructor, Health Services Management  
BS, Health Care Administration City University  
AAS, Nursing Macomb Community College

**Wolfe, Steven (Steve)**—Instructor, Geography  
MA, Geography University of Missouri—Columbia  
BS, Geography Oregon State University  
AA, Geography Central Oregon Community College

**Wood, Josie**—Instructor, Speech  
MAIS, Interdisciplinary Studies Oregon State University  
BA, Speech Communication Western Oregon University  
AA, Transfer Coursework Central Oregon Community College

**Wood, Rhonda**—Instructor, Emergency Medical Technology  
BS, Nursing California State University  
AA, Nursing: Registered Fullerton College

**Wright, Phillip**—Director, Facilities and Operations  
BS, Civil Engineering Technology University of Idaho

**Wu, Jack**—Instructor, Accounting/Business Management  
MBA, Business Administration-Finance University of Connecticut

**Yancey, Theresa**—Reference Librarian  
MLIF, Library Science University of Washington
Student Rights and Responsibilities

The Student Rights and Responsibilities is reviewed and revised as needed each summer. For the most current version of this document, please visit: http://www.chemeketa.edu/aboutchemeketa/collegelife/studentrights/rights.html

Students are advised to read and understand this document. By accepting admission to Chemeketa Community College, students enjoy the rights and privileges as outlined here. To help ensure a positive learning environment, students have the responsibility to conduct themselves in accordance with standards as set forth in this policy.

I. Preamble
   Chemeketa Community College provides an environment that celebrates the freedom to learn and the freedom to teach. In that celebration of teaching and learning it is appropriate that individuals and groups be viewed with regard to their potential to contribute within the learning environment. Each has dignity and value.

II. Code of Behavior
   As a community of people seeking education, Chemeketa students are dedicated to improving personally and academically. Choosing to join the college community obligates each member to a code of behavior. Chemeketa students will:

   A. Practice personal and educational integrity.
      1. Students shall practice academic honesty by not cheating, plagiarizing, or misrepresenting their coursework in any way.
      2. Students shall not misuse college documents, library or computer resources, student records, or identification cards.

   B. Maintain standards of academic performance and contribute to the safe, cooperative and respectful learning environment throughout the college.
      1. Students shall participate in classroom assignments and discussions, and attend classes regularly.
      2. Students shall not disrupt the teaching/learning process.

   C. Respect the diversity and dignity of all persons.
      1. Students are encouraged to demonstrate respect for all persons.
      2. Students shall not participate in physical abuse or verbal abuse that is severe, pervasive, and objectively offensive towards any individual so to create a hostile or adverse educational or work environment.

   D. Respect the rights and property of all persons.
      1. Students shall do nothing to impede another's right to move about freely, express him/herself, or enjoy privacy.
      2. Students shall not destroy, deface or misuse property belonging to an individual or the college.

   E. Bear the ultimate responsibility for the effects of their decisions and behavior.
      1. Students shall abide by federal, state, and local laws.
      2. Students have an ethical obligation to confront, challenge or report destructive or abusive behavior.
      3. Students shall not abuse alcohol or other drugs.
      4. Smoking is prohibited on or in all properties owned and/or controlled by Chemeketa, including smoking in private vehicles while on property owned and/or controlled by Chemeketa.

      5. The possession of any firearm, knife with a blade exceeding four (4) inches, or illegal weapon, is prohibited on college property, or college controlled property, in accordance with both State and Federal Law. Law enforcement officers are exempt from this policy. The college president/chief executive officer may grant other exemptions for training purposes or safety purposes.

      6. 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.).

III. Student Rights
   Each student in the college community has certain rights that accompany his/her responsibilities. Those rights are to be protected by both students and staff regardless of an individual's race, gender, religion, color, creed, disability, sexual orientation, political affiliation, national origin, ancestry or age. The college will:

   A. Provide access to education and campus facilities.
      1. The college shall be open to applicants who are qualified according to current admission requirements within the limits of its resources and facilities.
      2. Students have the right to be informed about class requirements and college policy and procedures. Students' access to education shall not be inhibited by prejudiced or capricious academic evaluation.
      3. Students have the right to participate in evaluations of programs, course content and educational objectives.
      4. If a student is charged with a violation of law not related to his/her activities on campus, the matter shall be of no disciplinary concern to the college, unless the student is incarcerated and cannot comply with educational requirements.
      5. Students, official clubs and organizations may use available college facilities according to college policy and procedures.

   B. Assure the protection of confidential student records and information.
      1. Student records and information are protected and governed by federal and state laws and the college's Student Records Policy and Procedure # 5140 and corresponding Guidelines.
      2. Information about student views, beliefs, private activities, and political associations which is acquired or learned by college employees in the course of work is to be treated with professional judgment and confidentiality.
      3. Professional evaluations and references about the ability and character of students may be provided under appropriate circumstances.
C. Provide opportunities for association and preserve freedom of expression.

1. Policy and procedures governing clubs and organizations shall be established by the college.
2. 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.
3. In the classroom, students may take exception to the information and may reserve judgment about matters of opinion, but they are responsible for learning the content of the course.
4. Chemeketa Community College, as publisher, bears in conjunction with the staff of student publications, the responsibility for the content of the publications. The publications shall adhere to all applicable Oregon statutes, such as those regarding mass communications.
5. The student newspaper shall be governed by the Student Newspaper Guidelines and shall follow the Canons of Journalism of the American Society of Newspaper Editors.
6. Student publications shall state that the opinions expressed are not necessarily those of the college or student body.

IV. Conflict Resolution Process

If a student has a complaint about a staff member or another student, the steps outlined in this section will summarize the process. Members of the Chemeketa Community College community involved in a dispute are encouraged to first seek resolution with the individual with whom the conflict exists. Chemeketa Community College emphasizes the importance of direct, courteous, and respectful communication to informally resolve concerns and complaints. However, if resolution through person-to-person communication is not possible, there are several informal and, if necessary, formal processes to assist with conflict resolution.

Each of the dispute types listed here in sections 4.A. - 4.F., shall be subject to a specific conflict resolution process:

A. 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.

1. When a student believes that he or she has been given an inappropriate grade, the student will speak directly with the instructor no later than four (4) weeks after the end of the academic term of the disputed grade.
2. If satisfaction is not received with the instructor, the student may appeal no later than six (6) weeks after the end of the academic term of the dispute.
   a. The student will submit a “Grade Appeal” form. These forms are available in the Executive Dean of Students office and online at: http://www.chemeketa.edu/forms/documents/registrar_gradeappeal.pdf
   b. The form should be submitted to the Executive Dean of Students office where it will be forwarded to the appropriate Academic Dean/Director.
   c. The Academic Dean/Director will review both the instructor’s and student’s facts related to the grade appeal (tests, papers, reports, participation, etc).
   d. At the end of the review, the Academic Dean/Director will contact the student with their decision. The Academic Dean/Director’s decision shall be final and will be forwarded in writing to the instructor and student within thirty (30) calendar days of the receipt of the “Grade Appeal” form.
   e. The Academic Dean/Director will keep a copy of the appeal for one year.

B. Academic Honesty. When an apparent violation of academic honesty occurs, the faculty member works directly with the student according to the Chemeketa Community College Academic Honesty Policy and Procedure # 5020. The faculty member may resolve the matter by determining an appropriate course of action.

1) If the student contests the faculty member’s decision, a meeting with the faculty member’s supervisor, the Academic Dean, may be requested.
   The purpose of the meeting is for the student to hear the charges and present his/her side of the case.
2) The Academic Dean determines if the action recommended by the faculty member is appropriate.
3) If the student contests the Academic Dean’s decision, the student may submit a written appeal to his/her supervisor, the appropriate Executive Dean. The Executive Dean considers the appeal and responds. The decision of the Executive Dean is final.
4) Further consequences may be imposed by the Executive Dean of Students in cases of grievous violations of academic honesty or for a continued pattern of violations.
5) Consequences for violations of academic dishonesty are detailed in Procedure # 5020.
6) Some professional-technical areas have program-specific student handbooks, and in these handbooks there may be further explanation of their unique policies and consequences.
C. Charges of Student Misconduct. These complaints would include any violation of section 2.0, Code of Behavior, of this document, except for issues involving Academic Honesty which are covered in section 4.c or issues involving Harassment which are covered in section 4.e. Students and staff are encouraged to deal with student misconduct on an informal basis whenever possible. However, when the misconduct rises to a level that informal resolution cannot be reached, the appropriate staff or student may file a complaint.

1. The appropriate staff or student will submit a written complaint to the Executive Dean of Students. The complaint may be submitted via email or in hard copy format, but must be in writing.

2. The student whom the complaint is filed against will be notified in writing of the charges and the penalty which might result from consideration of the complaint. (See Section 5.A. Types of Disciplinary Action)

3. The student has ten (10) working days from the notification date of the complaint to respond.
   a. If the student fails to respond, the Executive Dean will decide next steps and the student forfeits the right to appeal the decision.

4. After review of the evidence and interviewing of appropriate persons, the Executive Dean of Students or designee may take one of the following actions:
   a. Terminate the proceedings, thereby exonerating the student
   b. Dismiss the complaint after appropriate counseling and advice to the student
   c. Impose an appropriate sanction in accordance with section 5.0

5. The student will be notified in writing of the decision within thirty (30) calendar days of the student's response to the complaint.

6. The decision of the Executive Dean of Students or designee shall be final and not subject to further appeal except in the case of expulsion.
   a. When expulsion is recommended by the Executive Dean of Students, the student may appeal to the college's Ombudsperson/Executive Dean.
   b. The Ombudsperson/Executive Dean may convene the College Appeals Committee for assistance in arriving at a final decision.
   c. The Ombudsperson/Executive Dean will issue a written decision to the student within thirty (30) calendar days of the hearing. A copy of the decision will be given to the Executive Dean of Students.
   d. The decision of the Ombudsperson/Executive Dean will be final and not subject to further appeal.

D. Charges of Staff Misconduct. Complaints in this category type refer to perceived violations of law or college policy or section 3.0, Student Rights, or 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. By law, certain procedures must be followed before discipline can be imposed. 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 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 meet with the supervisor's Dean.

E. Harassment. Chemeketa is committed to providing an environment focused on learning and growth, free of discrimination or harassment. Such behaviors will not be tolerated and are against college policies. See College Policies and Procedures # 1750 and 1751.

The college has established a Harassment Network of staff who can assist students with these issues.

F. 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.

1. The student will submit a complaint in writing to the Executive Dean of Students. The complaint will include:
   a. The student's name
   b. The nature of the complaint along with all documents, policies, procedures and related material which may be necessary for college review of the complaint.

2. 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.

3. 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 the Ombudsperson/Executive Dean. Upon receipt of the student's complaint, the Ombudsperson/Executive Dean shall meet with the student to discuss the complaint.
   a. The Ombudsperson/Executive Dean may convene the College Appeals Committee for assistance in arriving at a final decision.
   b. The Ombudsperson/Executive Dean will issue a written decision to the student within thirty (30) calendar days of the hearing. A copy of the decision will be given to the Executive Dean of Students.
   c. The decision of the Ombudsperson/Executive Dean will be final and not subject to further appeal.

4. If a student needs further information regarding the conflict resolution process, they are encouraged to contact the Assistant to the Executive Dean of Students.
V. Student Discipline. Disciplinary action may be imposed upon a student by college staff for misconduct or for violation of law and/or college rules and policies.

A. Types of disciplinary action which may be imposed and authorization for such action are:

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, or the rights of the members of the college community, the employee may request the student to leave. Reinstatement may be sought in accordance with the Student Rights and Responsibilities document.

2. Disciplinary Probation is a written warning to a student which may include interim exclusion. Interim exclusion may not exceed five days. The appropriate Academic 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 appropriate Executive Dean may impose suspension from classes in a program, from a service area, or from college-sponsored functions. Suspension may not exceed one term.

4. At the Yamhill Valley campus, the campus Dean may impose disciplinary probation or suspension from classes in a program or service area, or from college-sponsored functions.

5. 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.

B. The Executive Dean of Students may take any disciplinary action deemed appropriate for student behaviors which are considered destructive to the educational environment of the college.

A. The Ombudsperson/Executive Dean may decide, at his/her discretion, to take any issue involving student misconduct to a hearing before the College Appeals Committee. A hearing before the College Appeals Committee occurs in situations which may require a summary decision on an unresolved conflict or may result in the permanent expulsion of a student.

B. The college Ombudsperson/Executive Dean, in consultation with the Executive Dean of Students, shall appoint two students and three staff members to form a College Appeals Committee. The appeals committee must have a quorum of four to conduct a hearing. The hearing is not considered a formal, legal trial.

C. The general rules governing a hearing are listed below. The specific rules for a hearing are contained in the guidelines of the College Appeals Committee. A copy of these guidelines is on file in the office of the Executive Dean of Students and is available for examination by any student upon request.

D. A hearing shall be held not less than three nor more than twenty (20) working days after the filing of the statement of violation with the Executive Dean of Students. For reasonable cause, the College Appeals Committee may grant a postponement.

E. The student may be accompanied by counsel for advising purposes only; however, counsel will not participate directly in the hearing.

F. If the student who filed the appeal or is the subject of the appeal fails to appear for the hearing or agrees in writing not to contest the case, the Committee shall review the evidence and prescribe the appropriate action.

VI. College Appeals Process

A. College shall mean Chemeketa Community College.

B. College Board shall mean the Board of Education.

C. Staff shall mean any employee of the college, both full-time and part-time, management, faculty, and classified. Staff rights and responsibilities shall be provided by college policy, procedure and collective bargaining agreements. Staff is expected to intervene and facilitate adherence to the Student Rights and Responsibilities document.

D. Student shall mean any person currently enrolled in a college class.

E. Community member shall mean any person not enrolled in a Chemeketa class. A community member shall have the rights and responsibilities provided by local, state and federal laws. The Student Rights and Responsibilities document does not apply to community members. Community members may contact the college Executive Dean for clarification of their rights and responsibilities.

F. The College Appeals Committee shall be composed of students and staff and will conduct non-judicial hearings on alleged violations of the Student Rights and Responsibilities document. The hearings are not considered formal, legal trials.
Campus Map Legend

1 Bookstore; Faculty Offices
2 Student Services: Advising & Counseling; Business Office; Career Center; College Assistance Migrant Program; Convenience Store; Disability Services; Enrollment Center; Financial Aid; Food Court; Multicultural Center; Occupational Skills Training; Planetarium; Public Safety; Student Retention and College Life; Testing Services; TRIO; Student Support Services; Talent Search; Upward Bound; Tutoring Services; Veterans' Services; Information Center. Other Offices: College Support Services; Grants; Human Resources; President's Office; Public Information, Marketing and Student Recruitment.

3 Student Services: Art Gallery; Classrooms; Math Learning Center. Other Offices: Extended Learning, Instruction and Student Services.

4 Career-Technical Classrooms; Crossroads Café.

5 Art Classrooms; Career-Technical Classrooms.

6 Auditorium; Computer Labs; Testing Center.

7 Gymnasium; Physical Education Classrooms.

8 Dental Clinic; Health and Science Classrooms; Massage Clinic.

9 Student Services: Classrooms; Distance Education; Library; Writing Center. Other Offices: Curriculum Resource Center; Evening and Weekend Programs; Opportunity Center; Television Studio.

10 Information Kiosk

14/15 Burn Tower; Fire Station.

16 High School Equivalency Program (HEP)

19 SOAR

20 ACE/OFSET Program; Jobs Program; Workforce Integration Department.

22 Academic Transitions; Information Technology

23 Classrooms

24 Machine Shop

25 Welding Shop

33 Employee Training Facility; Facilities Capital Projects; Northwest Innovations.

34 Catering Kitchen and Conference Rooms.

35 Classrooms; SOAR

36 Classrooms

37 Faculty Offices

38 Faculty Offices

39 Child Development Center

40 Physical Plant Operations

41 Classrooms

42 Paint Shop

43 Copy Center; Mail Room; Recycling.

45 Activity Field

46 Greenhouse

48 Conference Rooms; MaPS Credit Union; Winema Market & Deli.

49 Mid-Willamette Education Consortium, Youth GED Options

50 Early College High School

51 Apprenticeship Programs; Winema High School.

52 Classrooms

53 Department of Human Services

60 Agricultural Sciences

61 Classrooms

62 Classrooms
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A gathering place, a place of peace where lives are transformed